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DEPARTMENT OF GEOLOGICAL SCIENCES

NEWSLETTER

THE UNIVERSITY OF TEXAS AT AUSTIN

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Cover Photograph

Simpson Springs Mountain in the Marathon Basin, West Texas, showing tight folds in the Maravillas Formation and the Caballos Novaculite (the Caballos is the white ridge-forming unit). This area was mapped by R. E. Bennett (MA '59). Photo by Bill Muehlberger.

Department News

CHAIRMAN'S REPORT

by William L. Fisher and
John M. Sharp, Jr.

The restructuring of the petroleum industry since the boom days of the early 1980's and the dramatic fall in oil prices in January of this year affect the whole of the geological sciences either directly or indirectly. Our alumni and colleagues feel the impact and so does this Department, this University and this State. The downside of cycles, especially when as precipitous as the current one, create immediate problems and probably have long-term negative implications as well. Yet we sense a real and basic commitment to education and research in Texas, and we are determined to see that the University plays a stabilizing role, and that this Department will continue to train and prepare geological scientists appropriately for the future.

The faculty stays active; research output is up and many have been receiving awards and professional recognition through the year. Several members of the faculty have been very active in the professional affairs of AAPG, GSA, AGU, SEG, SEPM, and other scientific societies.

The number of undergraduate majors continues to decline. We reached a high of 825 in spring of 1982. This spring majors were down to 290 and by our best guess will not exceed 250 in the fall of 1986. Our graduate program remains steady at about 200 (80 pursuing the PhD degree and 120 the Master's degree). The drop in undergraduate enrollment has had mixed effects. We are able to teach at a more personal level and get to know the students better. On the other hand, we require fewer teaching assistants. The teaching assistantship has traditionally been our most important mechanism for student support.

This past year, we added three new faculty members. Ian Dalziel joined us from Columbia University. Ian is an internationally recognized expert on tectonics. He has a joint appointment as full professor and as senior research scientist in the Institute for Geophysics. Ian taught a course in regional tectonics and spent research time in South America this year. Martin Lagoe is our new micropaleontologist. Martin received his PhD from Stanford and most recently worked with ARCO. He fills the void in micropaleontology left when Sam Ellison retired. Incidentally, Martin's wife, Heather is a Texas-Ex with a degree in petroleum land management. The third addition, Nick Walker, recently received his PhD



Ian Dalziel

from the University of California at Santa Barbara. Nick's arrival was delayed for a semester because of a severe biking accident. Fortunately, his recovery was complete and he joined us in full stride last January. Nick's research interests are in the application of isotope geology to regional tectonics.

Dr. Wann Langston retires effective August 31, 1986 to become the First Mr. and Mrs. Charles E. Yager Professor Emeritus. Professor E. L. Lundelius assumes the directorship of the Vertebrate Paleontology Laboratory, and reduces his faculty responsibilities to half time. Dr. Timothy Rowe, a vertebrate paleontologist with his doctorate from University of California at Berkeley will join the faculty in September, 1986.

Several new staff members joined the Department this year—Jim Carpetas as electronics technician, Jeff Horowitz as draftsman, Susanna Moses as thin-section technician, and Gloria Villalpando as front-office secretary. Melissa Smith joined the Geology Foundation staff.

Several new appointments, reappointments, or changes in appointments in endowed positions occurred in the past year. These are Dan Barker to the Bullard Professorship, Bill Fisher to the Barrow Chair, Lynton Land to the Gulf Professorship, Jack Sharp and Jim Sprinkle to Yager Professorships, Doug Smith to the

Weeks Professorship, and Keith Young to the Gregory Professorship.

Other Departmental activities went well this past year. The Visiting Speakers Program under Mark Cloos' supervision (see section on speakers) was well run and well attended. Wann Langston's talk on flying dinosaurs and Dave Raup's extinction talk were the best attended, indicating the continuing fascination with dinosaurs for both those within and outside the Department. A wide variety of quality speakers was offered. Professor DeFord continued his guidance in Technical Sessions for the 33rd year. We also benefited from a month-long seminar series given by Dr. Halfdan Carstens from Norway. He lectured under the aegis of the Edwin Allday Centennial Lectureship in Geological Sciences. In April, Dr. Roger Walker of McMaster University presented a short course on shelf sandstones funded by the Judd H. and Cynthia S. Oualline Centennial Lectureship in Petroleum Geology.

Our major problems this past year involved tight University budgets and student employment. Our normal operations and equipment budget continues to fall with respect to inflation, and our purchase of a badly needed new van was cancelled due to current budget restrictions. On the other hand, the Department succeeded in purchasing and installing an inductively coupled plasma spectrometer which greatly increases our research capabilities. The tight University budget also caused the cancellation of our building remodeling, including the 5th floor, recently vacated by the Bureau of Economic Geology. The hiring of our graduate and undergraduate students dropped off significantly from last year. Nevertheless, there are jobs available (one student received seven job offers), although competition is fierce. Well-trained geophysicists and hydrogeologists were generally successful in their job searches.

The support of our alumni, chiefly through the Geology Foundation, has been vital. The formation of the equipment maintenance and purchasing endowed accounts will in the future be of great assistance to both teaching and research. We also look forward to the filling of several of our endowed chairs in the next several years. We enjoyed the opportunity to chat with many friends and alumni at the meetings of AAPG, SEPM, SEG, GCAGS and GSA. Note that next year's national meeting of the GSA will be in San Antonio (Farish Chair Emeritus John C. Maxwell is the technical program chairman). We hope many of you will join us there or at one of the other meetings.

Great challenges and opportunities await the Department in the next few years. Our goals are to maintain and develop the best possible faculty; to maintain the best possible undergraduate teaching program; and to recruit the best possible graduate students with a continuing emphasis on PhD-level research. We also need to improve our research



Geology and hydrology students at the Waste Isolation Pilot Project during the spring, 1986 field trip. Left to right: Jack Sharp (kneeling), Gianni Chieruzzi, Jimmie Russell (BA '52, MA '54), Robert Rountree (BS '81), Jerry McNeish, Bob Asgian, Gary Shaw, Steve Germiot, Brian Reck, Henry Eby, Kathy Bland; Jim Durrett (third row), Laura de la Garza (BS '83), Nancy Barber, Steve Morton (fourth row), Paolo Vasconcelos, and Deb Pfeiffer.

capabilities. This will require an infusion of external research funds and continued acquisition of state-of-the-art equipment. With the support of friends and alumni, and an aggressive research effort by the faculty, these goals can be met.

The Department's programs do not need drastic redirection, but we will have to modify our academic offerings and research directions to meet new challenges and opportunities. We intend to produce that "new breed" of geologist and geophysicist who can attack the important problems of the future.

BUREAU OF ECONOMIC GEOLOGY

The Bureau of Economic Geology continues a diverse and healthy research program.

In its 1985 calendar annual report, available on request, 15 different energy research programs, eight varied environmental projects, four mineral investigations, four mapping projects, and five miscellaneous geological studies were reported. For the most part,

research efforts were funded by contracts with: four State agencies, four Federal contractors and three industrial/institutional groups.

The Bureau increased its annual budget, even in a climate of restricted research support. It continued to recruit qualified scientists.

Two newly-graduated researchers joined the Bureau this year. Stephen Laubach is a structural geologist holding a PhD from the University of Illinois. Elisabeth Kosters recently received her PhD in marine science from Louisiana State University, where she studied deltaic systems, especially peat deposits. Following the 1985 *Newsletter* Dr. Jay Raney, a University of Texas structural geologist, and Dr. Richard Major, a Brown University carbonate petrologist, joined the research staff.

Several Bureau personnel received recognition by professional societies. Bill Fisher served as President of AAPG. Shirley Dutton is a 1986 AAPG Distinguished Lecturer, and Frank Brown was named Distinguished Lecturer for the Petroleum Exploration Society of Australia. Bob Morton is General Chairman for the midyear SEPM 1987 meeting. All were especially delighted when James Doss of our support staff received a 1985 UT Excellence Award.

This year saw an increase in distinguished visitors and guest lecturers; only foreign visitors are listed:

Phillip Playford, Department of Mines, Australia, on Modern and Ancient Carbonate Depositional Systems.

Janos Urai, University of Utrecht research laboratories, Netherlands, on Water Simulated Creep in Rock Salts.

D. H. Welte, Director, Institut Erdol und Organische Geochemie, Germany, on 3-D Basin Modeling of Hydrocarbon Generation and Migration.

Public knowledge of the Bureau's new location was markedly increased. There were more visitors in 1985 who purchased publications on site than had visited our old home in the Geology Building prior to the move. Such public awareness was also shown by many larger donations of core and samples into the new repository.

The Bureau began performing its daily work in an entirely new mode this year as a result of owning a new VAX 11/780 computer. Many internal communications were transmitted via mail and bulleting software programs. Most researchers write first drafts of manuscripts in word processing, and the re-keying of processed manuscripts has markedly decreased. Large data holdings like core and publications were stored in readily retrievable data banks. Also, scientists stored their extensive data banks and computed unique graphics for publication.

INSTITUTE FOR GEOPHYSICS

During the past year, Antarctic studies and satellite altimetry have been added to the spectrum of research activities at the Institute. At the same time strong programs are being maintained in paleogeography-paleoceanography, tectonic history of continental basins and shelves and the past depth of the ocean floor, paleomagnetism, earthquake seismology, reflection seismology and ocean-bottom seismometry. The Institute continues to be an active participant in the International Ocean Drilling Program.

Institute scientists have been involved in two programs in Antarctica, both funded by the National Science Foundation. The first involves a study of the tectonic evolution of West Antarctica and its geologic relationship to East Antarctica, the second a study of tectonic processes at convergent plate boundaries, such as the Scotia Ridge of Antarctica and southernmost South America. Major progress has been made in both projects, and should lead to long-term Institute involvement in studies of the evolution of the southern rim of the Pacific, Southern Ocean evolution, and tectonic processes of Cordilleran mountain chain development.

Complementing the Institute's Antarctic field research are new satellite altimetry studies being conducted in collaboration with the Center for Space Research and Applications. Satellite altimetry permits vast amounts of information about previously unexplored southern oceans to be collected. These data are being applied to two major categories of research. The first is to construct detailed geoid height maps. This requires setting up and maintaining the altimeter data base, developing techniques for correcting altimeter data (e.g., ionospheric and tropospheric corrections, tides and inverse barometer effect, sea state correction), improving radial orbit accuracy, developing techniques for editing and reducing the noise in the altimeter data and developing algorithms for gridding and interpolating the data, as well as techniques to analyze higher density data. The second goal is to use satellite altimeter data in conjunction with bathymetric data to understand the physics of the oceanic lithosphere and thus develop techniques to predict geoid height from seafloor topography and vice versa. Besides its scientific application, this work is of great interest to the Navy.

Particularly pleasing are findings revealed in a recent compilation of statistics concerning the Institute's growth since 1982. This year three Ph.D. and 12 Masters degrees will be awarded through the Department of Geological Sciences involving studies done in the

Institute. This is more than double the numbers awarded in past years. Likewise, the publication rate has increased substantially. 1982-85 publication averages of 27 articles published and 20 in press per year are contrasted with current rates of 59 and 47, respectively.

Student training cruises aboard the R/V FRED H. MOORE continue to be a popular elective among geology and geophysics students. More participants are electing to pursue the on-shore component of processing and interpreting the data they helped collect. Industry sponsorship (Amoco, Conoco, Mobil, Union Exploration Partners) has made it possible to offer more training cruises per year, thereby increasing opportunities for student participation. The Institute is also pursuing ways to make our "floating field camp" program, which is unique in the academic community, accessible to students from other universities.

The Institute's hopes for upgrading seismic technology aboard R/V FRED H. MOORE were recently answered in large measure through the donation, by Chevron Geosciences Company, of seismic equipment from the R/V HOLLIS HEDBERG's seismic recording system and streamer by Chevron Geosciences Company. R/V HEDBERG was the geophysical flagship of Gulf Research and Development Company until its merger into Chevron. The new equipment consists of a 96-trace, 3.2 km seismic streamer with 33-1/3 m or 16-2/3 m active groups, and a 112-channel GUS 4200 digital recording system. The GUS system records seismic data at 1, 2, or 4 ms rates in 8, 16, or 32 second record blocks in fully demultiplexed SEG D data format. Demultiplexing is the first step in seismic data processing that reorders the data matrix into a trace-sequential format. Doing this step in real time at sea considerably reduces processing time and expense.

The Chevron donation has stimulated other efforts to improve seismic technology in order to be able to tackle more sophisticated geophysical projects. These will include construction of multiple airgun arrays for improved sound source output and the addition of compasses to the seismic array for three-dimensional seismic studies. When these and other updates in equipment are complete, R/V MOORE will be closer to current seismic standards in industry and, therefore, a better all-around platform for education and research. A piston coring system installed earlier this year further extends her geological/geophysical capability for future work.

FLAWN HONORED AT RETIREMENT DINNER



Priscilla and Pete Flawn.

A retirement dinner for University President Emeritus Peter T. Flawn was held on Thursday evening, October 31, 1985, at La Mansion Hotel in Austin. Those gathered to honor Dr. and Mrs. Flawn included many of Pete's friends from the geological community around Austin, staff at the Bureau of Economic Geology and Institute for Geophysics, faculty members from the Department, and members of the Geology Foundation Advisory Council. This special group realizes perhaps more than most exactly what Pete's contributions to UT have meant not only to the University as a whole, but also to the teaching and research groups represented in the general field of geology. Dr. William L. Fisher saluted Pete this way: "In February, 1979, Peter Flawn was the unanimous choice of the Board of Regents to become the 22nd President of The University of Texas at Austin. We all knew he would succeed. After all, he knew Texas, its institutions, and its politics in a deep, fundamental way. His research at the Bureau gave him standing as an



Ray Woods (left) and Amos Salvador express good wishes to Pete Flawn upon his retirement.

international scholar of substance. His teaching in the geological sciences and public affairs gave him the critical perspective of the classroom, and his long string of administrative appointments equipped him for the management of large complex institutions. His deep roots in the University gave him a special sense of academic quality.

"But we had no idea how successful he really would be. Perhaps he did not either. But the years 1979 through 1985 marked the time that this University made its critical surge to excellence, but even more importantly, it was the time the basis for getting to the top was laid. The faculty and staff, the Regents, and the many constituencies of the University know it and feel it. The surge and potential apply to the geological sciences as well as the rest of the University, and for them we have a geologist, Peter Flawn, to thank."

Mr. Judd Oualline, chairman of the Geology Foundation Advisory Council, cited Pete's many accomplishments in directing The University of Texas at Austin toward excellence: "Pete's dream was to have excellence in every area and function of the University — and he achieved that dream. He can now go on to other endeavors knowing that his dream of excellence was achieved and so structured that it will go on and on through the ages. Pete has gone further than writing his achievements in indelible ink, further than chiseling them in stone; he has engraved them in gold which will not oxidize or tarnish, and will live on forever."

Pete continues to live in Austin and his ties with the University include his present title as President Emeritus and the L. T. Barrow Chair Emeritus.

Alumni Events

Meetings of the Gulf Coast Association of Geological Societies were held in Austin in October, 1985. On October 17 a group of 80 ex-students, faculty, and Bureau of Economic Geology staff gathered at the Hyatt-Regency for the annual UT alumni luncheon. Dr. William L. Fisher, Chairman of the Department, gave a brief summary of events in geology at UT. Dr. Robert E. Boyer, Dean of the College of Natural Sciences, also gave an overview of College programs and general outlook for the University for the near future.

Orlando was the site of the 1985 Geological Society of America convention. As usual, a large group of participants gathered for the UT alumni cocktail party on Monday, October 28. The GSA Convention in 1986 will be held in San Antonio, so an especially large crowd of Texas-exes can be expected. The cocktail party will be held from 7 to 9 p.m. in the Garden Terrace at the Hyatt on Monday, November 10.

The Department's Open House and Barbecue were held on Saturday, November 2, 1985. Visitors viewed a number of poster sessions which had been given by faculty and students from the Department at several recent professional meetings. In addition, Dr. William R. Muehlberger prepared an interesting exhibit outlining his work on the AAPG's tectonic map project.

Attendance at the alumni breakfast in Atlanta during the American Association of Petroleum Geologists meeting on June 17, 1986 was down somewhat from previous years. Approximately 60 persons attended the breakfast, and about 100 participated in the cocktail party the previous evening. Due to the meeting date in June, several students and faculty receiving awards were unable to attend. Dr. Milo Backus was presented the Houston Oil and Minerals Corporation Faculty Excellence Award in recognition of his many contribu-



Bill Muehlberger explains exhibit to Fred Wiegand (BS '69) and family at annual open house.



Ex-students John Suter, Steve Seni, and Joe Sullivan enjoy lunch together at GCAGS meeting.

tions to the geophysics program. Dr. Backus, who also won this honor in 1982, is the first faculty member to receive this award twice. A cash gift of \$2,000 accompanies the award. Dr. Robert L. Folk, who was in Italy conducting field research, was announced the winner of the Carolyn G. and G. Moses Knebel Teaching Award — the second time he has received that honor. He received a \$1,500 gift as the recipient of the Knebel Award. The recipient is determined by vote of undergraduate and graduate students in the Department.

The winners of the student Petrography Award were also announced, although neither recipient could be present. Graduate recipient is William Agee, who received a cash prize of \$1,000; undergraduate recipient is L. Scott Kelly, a senior, who received \$250. More information about the Petrography Award recipients is given in the Student Awards section of the *Newsletter*.



Leon Long visits with Nannette and Harold Illich at GCAGS alumni luncheon in Austin.

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 Geological Sciences; PhD Princeton: igneous and metamorphic petrology; experimental phase relations of feldspars and feldspathoids; origin of granite and alkalic rocks; geochemistry.
- Robert E. Boyer**, Robert E. Boyer Centennial Professor in Geology; Dean, College of Natural Sciences; joint appointment: College of Education; PhD, Michigan: Structural geology; analysis of space photographs; remote sensing; earth science education.
- L. Frank Brown, Jr.**, Senior Research Scientist, Bureau of Economic Geology; PhD, Wisconsin: Upper Paleozoic stratigraphy; depositional systems; environmental geology.
- Richard T. Buffler** (on leave), Research Scientist, Institute for Geophysics; PhD, California, Berkeley: Marine geology and geophysics and seismic stratigraphy.
- Ian W. D. Dalziel**, Senior Research Scientist, Institute for Geophysics; PhD, Edinburgh: Regional geology; plate tectonics and mountain building.
- William L. Fisher**, Leonidas T. Barrow Chair in Mineral Resources; Chairman, Department of Geological Sciences; Director, Geology Foundation; Director, Bureau of Economic Geology; PhD, Kansas: Energy and mineral resources.
- 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 Gulf Coast and central Texas; sedimentary properties in relation to geomorphology.
- William E. Galloway**, John E. "Brick" Elliott Centennial Professor in Geological Sciences; PhD, Texas: Sedimentation; mineral fuels; seismic stratigraphy, sedimentary petrography.
- Edward C. Jonas**, joint appointment; College of Education; PhD, Illinois: Electron and X-ray diffraction of clay minerals; pyroclastic sediments and uranium deposits.
- Lynton S. Land**, Gulf Oil Company Centennial Professor in Geology; PhD, Lehigh: Isotope geochemistry, diagenesis, low-temperature aqueous geochemistry.
- Leon E. Long**, Second Mr. and Mrs. Charles E. Yager

Professor; Graduate Advisor; PhD, Columbia: Geochemistry, isotopic age and stable isotopic 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; 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, Penn State: Geophysics, seismology, lunar and planetary physics, and acoustic emissions.

Amos Salvador, Alexander Deussen Professor in Energy Resources; 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.

John M. Sharp, Jr., Third Mr. and Mrs. Charles E. Yager Professor; PhD, Illinois: Hydrogeology; relation of groundwater to ore genesis and hydrocarbon migration.

Douglas Smith, Albert W. and Alice M. Weeks Centennial Professor in Geological Sciences; PhD, Caltech: Field, chemical and experimental studies of igneous rocks; geochemistry.

James T. Sprinkle, First Mr. and Mrs. Charles E. Yager Professor; PhD, Harvard: Primitive echinoderms, blastoids, Paleozoic stratigraphy and paleontology of the Rocky Mountains.

Paul L. 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, George H. Fancher Professor in Petroleum Engineering; joint appointment: Department of Petroleum Engineering; PhD, Wisconsin: International minerals and energy economics and policy issues; coal characterization and utilization.

Keith Young, J. Nalle Gregory Professor in Sedimentary 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; petroleum geology.

William M. Rust, PhD, Rice: Geophysics.

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

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

Associate Professors

William D. Carlson, Joyce Bowman Payne Centennial Teaching Fellow; PhD, UCLA: Structural geology; field and theoretical study of mobile belts.

Gary Kocurek, John A. and Katherine G. Jackson Centennial Teaching Fellow in Geological Sciences I; PhD, Wisconsin: Sedimentology—depositional environments and eolian processes.

J. Richard Kyle, Geology Foundation Advisory Council Centennial Teaching Fellow in Geological Sciences; PhD, Western Ontario: Metallogeny; strata-bound mineral deposits in sedimentary and volcanic rocks; fluid inclusion studies; industrial minerals; mineral exploration.

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

Clark R. Wilson, John A. and Katherine G. Jackson Centennial Teaching Fellow in Geological Sciences II; PhD, University of California Scripps Institute of Oceanography: Geophysical time series; analysis of multidimensional geophysical data field.

Assistant Professors

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

Martin B. Lagoe, PhD, Stanford: Micropaleontology (foraminifera) and stratigraphy.

Timothy Rowe, PhD, California, Berkeley: Vertebrate paleontology, lower vertebrates.

Nicholas W. Walker, PhD, California, Santa Barbara: Isotope geochemistry, petrography and petrology, geologic mapping, mineralogy.

John K. Warren, Bill R. Payne Centennial Teaching Fellow, PhD, Flinders (Australia): Origin of evaporites and carbonates; paleohydrology of saline lakes.

Senior Lecturers

- Wulf A. Gose**, Research Scientist, Department of Geological Sciences; PhD, SMU: Paleomagnetism; structural history of Central America.
- Fred W. McDowell**, Research Scientist, Department of Geological Sciences; PhD, Columbia: Geochemistry; geochronology.
- William D. Sill**, PhD, Harvard: Vertebrate paleontology of Triassic reptiles.

Lecturers

- Charles R. Denham**, Research Scientist, Institute for Geophysics; PhD, Stanford: Geophysical time-series analysis; magnetostratigraphy and history of geomagnetism.
- Cliff A. Frohlich**, Research Scientist, Institute for Geophysics; PhD, Cornell: Influence of structure on earthquake locations in subduction zones.
- Mark A. Helper**, PhD, UT Austin: Metamorphic petrology, tectonics.
- W. Paul Mann**, Research Associate, Institute for Geophysics; PhD, SUNY: Caribbean plate-boundary problems and structural tectonics.
- Frederick W. Taylor**, Research Scientist, Institute for Geophysics; PhD, Cornell: Isostatic uplift, geomorphology, and geologic mapping.

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**, Fred M. Bullard Professor Emeritus; PhD, Harvard: Metamorphic petrology and volcanic rocks of Texas and Mexico.
- Ronald K. DeFord**, MS, Colorado School of Mines: Stratigraphy of southwestern U.S. and northern Mexico; history of geology.
- Samuel P. Ellison, Jr.**, Alexander Deussen Professor Emeritus; PhD, Missouri: Resource geology — Fuels, coal, oil and gas; subsurface geology; micropaleontology and biostratigraphy — foraminifera and conodonts.
- Peter T. Flawn**, President Emeritus and Leonidas T. Barrow Chair in Mineral Resources Emeritus; PhD, Yale: Economic geology; environmental geology; geology and public affairs.
- 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.
- Wann Langston, Jr.**, First Mr. and Mrs. Charles E. Yager Professor Emeritus; PhD, California, Berkeley:

Paleontology of lower vertebrates.

- John C. Maxwell**, William Stamps Farish Chair Emeritus; PhD, Princeton: Structural geology.
- John A. Wilson**, PhD, Michigan: Vertebrate biostratigraphy of the Tertiary of the Gulf Coastal Plain, west Texas, and Mexico.

Classified Staff

- Joyce E. Best**, Administrative Associate, Geology Foundation office.
- Rosemary Brant**, Senior Office Assistant, third-floor faculty.
- Jim C. Carpetas**, Electronics Technician, trouble shooting and repair of electrical equipment.
- Roxye Day**, Office Assistant, second-floor faculty.
- G. Karl Hoops**, Analytical Chemist, rock and mineral analysis by standard methods, instrumental chemical analysis for trace elements.
- Jo Ann Kuper**, Senior Procurement Officer.
- Betty J. Kurtz**, Senior Office Assistant, second-floor faculty.
- Rudolph W. Melchoir**, Instrument Maker, construction of special laboratory and field equipment.
- Susanna R. Moses**, Laboratory Research Assistant, thin sections — petrographic and electron microprobe; ore microscopy sample preparation; polished mounts.
- R. Ann Page**, Administrative Assistant, graduate advisor's office.
- Donna L. Precht**, Student Development Specialist II, undergraduate advisor's office.
- Edwina L. Rawlins**, Senior Office Assistant and Placement Coordinator, Department office.
- Melissa G. Smith**, Senior Office Assistant, Geology Foundation office.
- David M. Stephens**, Photographer, photography and photographic consultant.
- John Thorne**, Electronics Technician, design and repair of electronic equipment.
- Gloria Villalpando**, Senior Office Assistant, Department office.
- Marianne Walk**, Administrative Assistant, Project SEER.
- William I. Woods**, Executive Assistant.

STAFF MEMBER PRESENTS PAPER

Ms. Rosemary Brant, Senior Office Assistant in the Department (third floor), travelled to Montreal, Canada, in July to present the results of her Master's thesis at a meeting of the 59th Annual Convention of the American Association of Teachers of French. Her paper was entitled "Truffaut's Creative Obsession."

FACULTY NEWS BRIEFS

In the fall term, **Milo Backus** taught the undergraduate course in geophysical data processing, and team taught a graduate course entitled "Practical Inversion" with Professor Clark Wilson. An optimistic outlook (long-term) for the use of "generalized linear inversion" in prestack seismic interpretation was presented by Milo in his talk on "The Fourth Dimension" at the 1985 SEG meeting in October. Milo is presenting an invited paper at the September 1986 SEG-EAEG (European Association of Exploration Geophysicists) in a Rome workshop on "Inversion and Deconvolution" entitled "Noise, Bias, and Imagination in Deconvolution and Inversion". Several of Milo's students are currently investigating and/or using "generalized linear inversion" in their thesis research. We feel that this is a rapidly developing practical interpretation approach.

In the 1986 spring term, Milo taught the graduate course in geophysics data processing, and the undergraduate course in geophysical interpretation. Guest lecturers Peter Vail, Mike Curtis, Roice Nelson, Halfdan Carstens, Frank Brown, Tom Shipley and Dale Sawyer, provided some very stimulating contributions to the course. A high-density 3D data set from the Gulf of Mexico, contributed to the University by Amoco, New Orleans, was used for the first time in the interpretation lab. The students are now working with "time slice" data images in their interpretation work.

During the spring term, Milo presented short courses on "Reflection Amplitude vs. Offset" as part of the Continuing Education programs of the Houston and Dallas Geophysical Societies, and presented a paper by Todd and Backus at the annual meeting of the Permian Geophysical Society. He also worked as an organizer on the SEG Research Workshop on "Near Surface Effects" held in Hyannis, Massachusetts in July, 1986.

Tracy Stark completed his PhD program in May, 1986! We will miss Tracy, but will continue to build on the contributions he made during the course of his dissertation. Payson Todd and Chris Finn received their MA degrees in May. Tracy and Payson are at Exxon, and Chris is continuing in the graduate program.

Project SEER (an industry-sponsored research program) began its fourth year in July. Chris Finn and Dan Huston will be presenting some of their Project SEER research results at the SEG meeting in Houston this fall.

In the fall semester, **Dan Barker** taught undergraduate mineralogy-optical crystallography and graduate igneous petrology, and prepared for a field trip in the Trans-Pecos igneous province, to precede the Geological Society of America annual meeting in San Antonio this November, to be jointly led with Jon Price and Chris

Henry of the Bureau of Economic Geology and Dan Parker of Baylor.

In the spring semester, Dan was on leave with a faculty research assignment. With complete freedom from teaching and committee obligations, he packed a lot of travel and writing into five months. In January, he flew to New Zealand for a month, to see some geology on his own, but mostly to attend the International Volcanological Congress and associated field trips to Cenozoic volcanic rocks on both the North and South Islands. The meeting drew more than 500 geologists from 34 countries. Many of those from the northern hemisphere were attracted by the promise of escaping winter, as well as by the spectacular geology. Dan returned to Austin via a brief trip through southeastern Australia and six days at Kilauea volcano in Hawaii. Seeing very young volcanic rocks in New Zealand and Hawaii was a revelation; he had not fully comprehended how incomplete the stratigraphic record must be for volcanic rocks that are more than a few thousand years old, nor how nonlinear a time-versus-thickness relationship can be (for example, the 1886 Tarawera eruption in New Zealand deposited local accumulations of ash 450 feet thick in four hours!).

In May, Dan attended the annual meeting of the Geological Association of Canada in Ottawa, as an invited speaker in a session on carbonatites, and participated in premeeting and postmeeting field trips to some of the many Canadian carbonatite occurrences. Carbonatites (igneous rocks containing more than 50% carbonate minerals) are currently a topic of widespread interest, and Dan completed a review article on their emplacement mechanisms and another paper on carbonatite lava and tuff in southwestern Uganda. Other manuscripts readied for peer review include one on mineralogically peculiar lava flows on the island of Lipari and the long-awaited (at least by Dan) opus on quartz monzonite and associated iron deposits in southwestern Utah. Publication of all the results of this spring's research leave may consume more trees than the 1980 eruption of Mount St. Helens.

Dan's summer plans include teaching introductory physical geology and preparing a new senior elective course in volcanology.

Virgil Barnes continues on modified service with the Bureau of Economic Geology as Director of the Geologic Atlas of Texas Project and of the 1:500,000 scale Geologic Map of Texas Project. Progress on both these two projects has slowed because of the press of other cartographic work. In the meantime, Virgil is being kept busy with the revision of atlas sheets that have gone out of print and is finding time to do additional research on tektites.

Virgil and his wife, Milla, participated in the Orlando meeting of the Geological Society of America in November and following the meeting cased Sanibel

Island for future reference. They were fortunate in timing as Hurricane Juan stirred up the Gulf, casting a myriad of beautiful shells onto the beach, but unfortunately, with their occupants still in them.

During June Virgil and Milla attended the American Association of Petroleum Geologists meeting in Atlanta. Afterwards it was back to Sanibel again, but this time with Virgil II and Louise and their families.

This spring grandson David Barnes Seeman, age 11, won the top earth sciences award in the city of Nashville with his project on mapping the distribution of radioactivity in strata within the city. Last year he won a \$50.00 bond on his energy project. Who knows? Maybe he will be a Texas-Ex from the Department of Geological Sciences!

Bob Boyer anticipates a tight budget year for the University and notes, "the importance of geology and the petroleum industry to the favorable economy of Texas for many years is now being appreciated in retrospect. The long-term importance of higher education to our State must be understood if our economy is to prosper. This message should be carried to the decision makers for the 1987 Legislative session. The economic return of State dollars invested for support of a premier institution of higher education is manyfold through research grants, attraction of industry, and a flourishing economy with promising employment opportunities for the educated young people of Texas, who can then become the leaders in their communities and the State."

Bob was honored to be named the GCAGS representative for a term on AAPG's Advisory Council and looks forward to that assignment. He and Betty travelled to the New England states last summer on a "marble hunting expedition." Marbles (the kind kids play with, or used to) have become a subject of much research. "We get a newsletter and the marble collectors have an annual convention (which will soon rival attendance at AAPG if the price of oil keeps dropping)," Bob comments. The only downside is that people accuse Bob of "losing his marbles," which may be truer than he would like to believe. In any event, Bob suggests that you send him old marbles you no longer want. They will be put to good use.

During the fall of 1985, **Frank Brown** taught seismic stratigraphy with help from Milo Backus and completed a Bureau report on the Virgil and Wolfcamp series in north-central Texas. In September Frank taught a one-day course in seismic stratigraphy at the annual meeting of the Mid-Continent AAPG in Amarillo. He taught in the AAPG seismic stratigraphy schools in Houston in November and San Diego in May, as well as in similar in-house company schools.

Frank and his wife, Keith, plan to spend two weeks of vacation in Taiwan in August while Frank consults for

the Chinese Petroleum Company. While in southeast Asia, he plans to teach in the seismic stratigraphy school in Jakarta, Indonesia for the AAPG.

Frank's greatest thrills during the year were to recertify his pilot's license and to move to Lake Georgetown. His greatest satisfaction was to attend his 40th high school reunion in Oklahoma and find that every classmate has aged except him!

Fred Bullard commented, when asked about his activities for the past year that, "It had been busy, but far too short a year—where have the days gone!" Fred spends some time at his University office (no regular hours) keeping up with current volcanic activity—see Faculty Publications in this issue. Fred continues to be invited to speak to various groups. He was selected to initiate the Visiting Scholars Program at Westlake High School in Austin in February. He is also listed as a speaker on the Ex-Student's Association Update '86 Program. This is a program sponsored by the Ex-Student's Association and the Department of Continuing Education, sometimes known as the Alumni University, in which parents and ex-students return to the campus and are "students" for a brief time. The program this year will be held in mid-June.

Fred's travels during the year include a trip to Oklahoma in November so Evelyn could visit the farm where Fred grew up. Fred's father homesteaded the land when the Kickapoo Indian Reservation was opened for settlement. This was the last Indian reservation in which the settlers made a "run" and staked their claim. Those who sneaked in ahead of the official opening of the "run" were known as "sooners". Fred says his father was not a "sooner". In addition to visiting the homestead (which is still in the family), Fred and Evelyn visited the two high schools which Fred attended and the University of Oklahoma where he graduated. Fred and Evelyn were in California with Fred's daughter for Thanksgiving and in January they joined other members of the family for a reunion in Hawaii. The Kona Coast of the Big Island is lovely!

Fred says their summer plans are still tentative, but they are looking forward to the Annual Meeting of the AAPG in Atlanta in mid-June, and the second reunion of the Geology Class of 1947 in Colorado Springs in mid-July. They will also spend some time at Fred's summer home in Taos, New Mexico.

Bill Carlson reports an active and productive year, centered on continuing his experiments on subsolidus pyroxene phase equilibria. In addition to his usual lab activities in Austin, he made several trips to the Experimental Petrology Laboratory at the Johnson Space Center in Houston to use the high-pressure apparatus there. The recent work has paid off—Bill received word in May that the National Science Foundation will continue funding of his pyroxene work

for the next three years. Summer plans include helping to teach the 1986 summer field course in Taos, New Mexico, as well as field trips to Mexico and Colorado.

Two of Bill's students working on diffusion-related problems in garnet amphibolites from the Llano Uplift finished (or nearly so!) and departed for greener (\$) pastures: Steve Robertson is doing geological consulting in Minnesota, while Susan Harris works on rad-waste in Washington. New students are working in the Llano region and in Chihuahua, Mexico.

On the home front, things haven't changed as radically as in past years; all new additions to the family have been canine or feline!

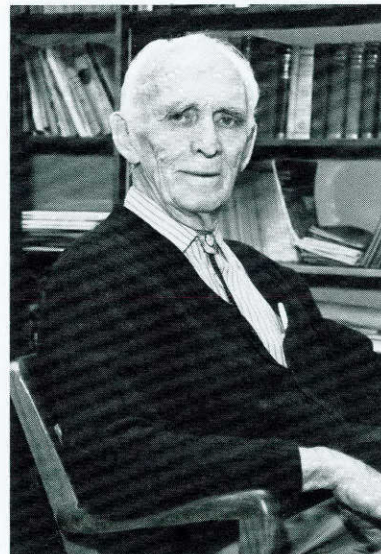
Steve Clabaugh and his wife, Pat, lead a rather quiet, rustic life at their retirement home on the Pedernales arm of Lake Travis, except during frequent visits of children and grandchildren (five of them now). Steve has a garden and small orchard, and he raises hybrid amaryllis from seed. Steve's father and his brother both died earlier this year, in Steve's home town of Carthage, and he made numerous trips to east Texas when they became seriously ill. His only recent geological activity was a review of the book, "The Great American Sapphire", an account of the Yogo Sapphire deposit in Montana that Steve described in a U.S. Geological Survey letter 40 years ago.

Mark Cloos continued as the William T. Stokes Centennial Teaching Fellow during the 1985-86 academic year. He taught a new course, Physical Geology, in the fall semester and undergraduate Structural Geology and his graduate course on Plate Margins in the spring semester. Four of Mark's students completed their MA theses during the year. Three of the students did field-based studies in the Franciscan subduction complex of California. Karen Herrington worked on the petrology of an eclogite block which provided new constraints on the tectonometamorphic evolution of the Franciscan. Erik Davidsen did the structure and petrology of greenstone blocks encased in mud-matrix melange near San Simeon and concluded they are fragments of seamounts dismembered during subduction. Both Karen and Erik made extensive use of the Department's magnificent new JEOL Superprobe 733 for quantitative analysis of minerals. Leslie Mashburn did a fluid inclusion study of mineralized veins in melange and slope basin sediments near San Simeon. This study was the first of its kind and provides new insight into how subducted sediments dewater. Clint Cagle (co-supervised with Jaime Austin of the Institute for Geophysics) did a seismic stratigraphic analysis of the Tonga subduction system using reflection profiles from Mobil and the USGS. This study puts new constraints on the geologic history of the fore-and

backarc areas of one of the world's most interesting actively convergent plate margins. Considering the present difficulty in obtaining employment in the geosciences, Mark is happy to report that Erik is now working for Chevron in Midland. Leslie is with Geochemical Surveys in Denver, and Clint is with Sun Exploration in Dallas.

Mark completed three papers with Ronald Shreve at UCLA on quantitative modeling of subduction zones. One of them will come out this fall in the *Journal of Geophysical Research*. They received funding from the National Science Foundation (NSF) to continue and expand the research for two more years. Mark also received funding from NSF to examine mineralized veins in the northern Franciscan to understand further how subducted sediments dewater. Now he just needs another student who is interested in fluid inclusions.

In October, Mark presented a paper on quantitative modeling of subduction zones at the national meeting of the Geological Society of America in Orlando, Florida, and in March, on strain patterns in Franciscan melange blocks at the Cordilleran Section meeting in Los Angeles. He also gave invited lectures at the University of Wisconsin at Madison, the Lunar and Planetary Institute in Houston, and at Northern Arizona University in Flagstaff. Karen Herrington and Erik Davidsen presented papers on their MA research at the Orlando meeting and Trevor Dumitru spoke at the Los Angeles meeting. Trevor is using fission-track analysis of apatite to determine the thermal history of the Great Valley forearc basin in California. Following the Los Angeles meeting, Trevor gave an expanded talk on his research at Chevron Research in La Habra. In May, he spoke on computer modeling of the thermal history of convergent plate margins at the American Geophysical Union meeting in Baltimore. Trevor's work is particularly noteworthy in that it may actually help find oil.



Ronald K. DeFord

Life was a little hectic this past year for **Ronald K. DeFord**—an alleged ruptured disc brought on back surgery in March of '85, which only made the condition worse! A trip to the Mayo Clinic in Rochester, Minnesota in June gave assurance that Ronald would recover. And so he has! After a semester of conducting business by phone and seeing students at home, in January Ronald returned to supervising Technical Sessions, editing abstracts and having office hours. Although Ronald and Marion missed the AAPG convention last year, they did participate in the GCAGS meeting here in Austin, and attended the 1986 AAPG Convention in Atlanta.

Samuel P. Ellison, Jr. taught a five-day short course on "Applied Petroleum Geology" in Jakarta, Indonesia in mid-September of 1985 for employees of various Indonesian oil companies. The conodont bibliography has now been updated to January, 1986. The number of conodont papers coming into the library has increased and it is becoming increasingly more difficult to keep up with the conodont bibliography.

The manuscript on "Conodont Lag Concentrates" has been accepted for publication at Southampton University in England. Three of the former micropaleontology students are underway with developing Master's theses. One is almost complete. Sam's office has been moved to Geology Building 321 where there is water, a fume hood, two outside windows and enough room that Harold Billman (retiree from Union Oil Company) also has a desk and a microscope for his foraminifera studies.

The manuscript on "Tesus, Mississippian, Conodonts of the Marathon Basin" is nearing completion and a revisit to the Dimple Formation conodonts of west Texas is represented by a stack of slides on Sam's desk.

The travelling this year has been limited to a visit to Atlanta to see Dotty and Sam's eldest son, David, and his wonderful family, including a granddaughter just 18 months old. The highlight of the year was in April, 1986, when for a few hours all three of the Ellison boys and their fine families were together in Austin. It was a good gathering for grandmother, Dotty, and grandfather, Sam.

Future travels are pending, but most of the travel will be in the United States.

Bill Fisher continues to devote his efforts to chairing the Department and directing the Bureau of Economic Geology. With a lot of outside commitments this year, Bill got excellent backup from Deputy Director, Ed Bingle, at the Bureau and Associate Chairman, Jack Sharp, in the Department.

Bill served as AAPG President during the year and delivered his presidential address—The Aggressive Pursuit of Marginal Resources—at the Annual Meeting in Atlanta. He maintained a busy speaking schedule

giving 18 external lectures during the year.

Bill also presented testimony concerning the impact of lower oil prices to the U.S. Senate Committee on Energy and Natural Resources, the U.S. House Committees on Budget, Energy and Commerce, and Small Business, the Texas House Committee on Energy, and the Governors' Energy Summit. Bill was appointed to the Advisory Committee of the Gas Research Institute and is serving on the Coordinating Committee of the National Petroleum Council's current study of U.S. Oil and Gas Outlook. During the year he presented papers to the National Academy of Sciences Minerals and Energy Board and the Energy Engineering Board and chaired the Academy's Committee on Offshore Hydrocarbon Resource Estimation.

In May Bill received the Honorary Degree D.Sc. from his undergraduate school, Southern Illinois University, and also during the year, received the Public Service Award of the American Institute of Professional Geologists.

Bill directs the Geology Foundation and particularly enjoys that opportunity to work with the Department Exes and the Advisory Council.

In January **Bob Folk** celebrated one-third of a century of teaching at UT after recovering from a voodoo-tainted sandstone final exam putatively held in Haiti. For the first time since 1967 he did not teach a freshman physical geology course, giving his collection of nearly 3000 color slides a deserved rest. With the welcome freeing up of time, he was finally able to do some research, and in April he was officially declared a scientist after his first experience on the microprobe chasing SR values across a bacterioidigenetic nodule.

Bob spent July, 1985, in Italy working on the Triassic Portoro limestone around the scenic peninsula of Portovenere near La Spezia. Marge went along, and Steve, Jenny, and the two granddaughters joined them for a couple of weeks also, touring between Riomaggiore, Roma, Milano and Venezia while Bob toiled diligently in the rock quarries. Earle McBride joined them for a few days to sample pesto and grappa delle cinqueterre, and ogle the structures. Joe Greenberg was there as Bob's scientific colleague, and Sharon Mosher, Mark Helper and their baby, Sara, and Sharon's student, Karen Carter, gave splendid help—and a few feisty dialogues—on the complexities of the structural geology. Bob believes they also found Italy most enjoyable, at least for several weeks. Joe claims to have become a great pasta cook. It was fun, though Marge succumbed to an embroidered tablecloth in Carrara where they went to study the marble quarries. They made new discoveries on overturned tectonic veins (manuscript submitted to *Geology*), big anhydrite pseudomorph dolomitization fronts, and pygmatic folds. Marge and Bob then toured via train in Norway,

where they went from Oslo to Bergen and then to Flom for the Sogne fjord trip back down to Bergen. Norway certainly has beautiful scenery and gorgeous blondes! They came home via short stays in Denmark and the Netherlands.

Except for one talk at Oklahoma University, this was Bob's Louisiana year for lectures — at LSU (Baton Rouge), Northeast Louisiana (Monroe) and UNO (New Orleans). Ex-italianesses Pam Tiezzi Darwin and Victoria Purcell were in the audience for the Portoro talk. Short trips were taken to Williamstown, Mass., and New Braunfels, Tool, San Marcos and Salado, Texas.

Their guide in 1980 in Shanghai, Mr. Mei, visited them for several days and they showed him central Texas. Steve and Jenny are in their final year in Saudi Arabia, and plan to return to the U.S.A. in late summer.

Bob's personal research continues to be concentrated on the Portoro limestone. In August, 1985, with Lesley Bendig's assistance, they discovered incredible pseudo cross-bedding structures in baroque dolomite crystals, but the SEM became incapacitated before this work could be completed. Over Christmas, amazing revelations began to be brought forth through the use of a white card and reflected light, revealing details of bacterial degradation of organic matter and other heretofore occult petrographic features. Work continues on the petrography of pottery from Tel Yin'am in Israel, with the discovery that Canaanite cooking pots contained crushed sparry calcite as grit, and huge wine bowls ("kraters") had olivine.

The work with H. Liebowitz on the Tel Yin'am iron smeltery was featured in the *Encyclopedia Britannica's* Annual Review of Archeology; this iron smelter is the only one so far described from the Middle East, and the oldest known anywhere in the world by some eight centuries. It is important in paleotechnology as it lies at the transition between Bronze and Iron ages in 13th Century BC Palestine.

The paper on bacterial origin of Italian travertines, written with Hank Chafetz, won the award for Outstanding Paper of 1984 from the *Journal of Sedimentary Petrology*. Interest in bacterial diagenesis continues at a fever pitch, and student Franz Hiebert is carrying the campaign into the realm of black shales.

In the summer of 1986, Bob plans to return to Italy via Iceland with student James Miller who will work on the varied dolomitization processes in the Portoro, particularly the dolomitization fronts that occurred after metamorphism and faulting. Karen Carter will act as chaperone and continue her work under Mosher on the various stages of plastic and brittle deformation. They plan a brief visit to Metaponto on the south coast to work with Joe Carter's team on the archeological sites in Magna Graecia.

Bob and Marge still enjoy their cabin on Bee Creek almost every weekend. In the spring three former

students, Penny Bockoven (Sullivan), Ellen Naiman (Tye), and Kurt Rudolph spent a weekend there with spouses. Bob's favorite pasta dish has become penne imperiale (pasta tubes with large shrimp, prezzemolo, garlic and red-hot pepper), a recipe he imitated from Osteria La Medusa at Portovenere. Three quarters of the eaters think it is wonderful, the other quarter think it is offal. Bob's classes still have field trips to the Broken Spoke, although students today are more apt to be squares and leaden-footed. The last two Ph.D. students, Steve Johansen and Steve Cather, finished up in May; both worked on sandstones in New Mexico.

This has been **Bill Galloway's** first full year of teaching as a "full-time" preoccupation. All in all a reasonable match with his expectations—busy, but nice to have the opportunity to get to work with and know more of the students.

During the fall Bill put in an abbreviated stint as an AAPG Distinguished Lecturer. The regional nature of his topic, and limited travel time available kept his tour generally in or close to Texas. Nevertheless, the talk provided the chance to organize and air some thoughts and conclusions about Gulf Coast Cenozoic deposition. Another of his talks, which was presented at the GCAGS Convention in Austin, was selected for the A. I. Levorsen Award. Ironically, that was the only talk for which he had ever forgotten to prepare slide copy until the week before the presentation. Thanks to some real time saving by the Bureau's drafting folks, Bill had a slide set in hand the day before the presentation. The fact that they were the fewest, simplest and most straightforward illustrations for a talk that he had used in a long time may have actually contributed to the selection by the judges!

Research horizons have continued to expand with development of a cooperative basin analysis program with the Earth Resources Foundation of the University of Sydney. Following a brief one-week set-up trip in February, Bill will return to Sydney with graduate student, Shawn Reynolds, for two months during the summer (their winter, unfortunately). The initial program is funded for two years, and will hopefully lead to additional opportunities for student exchange and research. Bill's other students continue to work on problems of submarine canyon and continental margin evolution in the Cenozoic sequences of the northwest Gulf. Thesis support for the Gulf Coast program has been provided by grants from NSF and ARCO.

So, with a complete set of course notes at the ready, Bill looks forward to whatever his second year of teaching might bring.

Wulf Gose pursued three different research projects. In cooperation with Richard Kyle, he finished his paleomagnetic study of the anhydrite cap rock of the

Winnfield salt dome. These unique data provide the first direct age determination for the accretion of the anhydrite; it accumulated from 157 to 150 ma at a rate of 6.7 m/ma. Preliminary results have been published in 1985 and a more detailed account has been submitted for inclusion in a book on salt dome dynamics.

Wulf obtained some surprising results from the Late Jurassic Taman and Early Cretaceous Pimienta Formations of the southern Sierra Madre Oriental, Mexico. These data and similar data from Lower Jurassic rocks by a young German scientist imply that the southern Sierra was folded in Barremian time (125 ma) and is, therefore, not a Laramide structure as generally assumed.

Together with Jack Wilson and two students, Annie Walton and Jim Westgate, Wulf is continuing his efforts to use magnetostratigraphy to correlate mammalian stratigraphy with the magnetic polarity time scale and thus the marine record. The current focus is on Upper Eocene strata from west Texas and the Gulf Coast. Thanks are due to the Bureau of Economic Geology for drilling a 110-foot core which will greatly facilitate and improve the quality of the work.

Two other students as well as visitors from UT Arlington and Texas A&M used Wulf's lab in support of their research. Wulf presented lectures to the Travis County Archeological Society and the Department of Geology, UT Arlington, and gave papers at the meetings of the Gulf Coast Association of Geological Societies and the American Geophysical Union. In August, he will visit the University of Nuevo Leon in Linares, Mexico. Because his Spanish is rather poor, he was asked to give his talk in German! He hopes to use this visit to establish some cooperative research projects.

Earl Ingerson continues to carry on the editorial responsibilities listed in the previous *Newsletter*. For the thirty-seventh volume in Pergamon's Series of Monographs in Earth Sciences, which Earl initiated in 1958, and for which he is still Editor-in-Chief, a translation of the Russian Book by Yermakov and Dolgov, *Thermobarogeochemistry*, has been suggested. The son of one of Earl's closest Russian friends, Dimitri Nikolaiovich Khitarov, has begun translating the volume, but the publisher insists that the book be brought up-to-date by the authors, so it will not be published this year!

Earl has been elected as the first, and only, honorary life member of the Geochemical Society and is currently the only honorary life fellow of the International Association of Geochemistry and Cosmochemistry.

The Association recently initiated a new Pergamon publication, *Applied Geochemistry*, as its official journal. The first three numbers, consisting entirely of invited papers, will be combined as the *F. Earl Ingerson Festschrift* (1986).

Earl is writing two papers, the researches for which

were performed quite a while ago. One has to do with time-temperature relations in the origin of tektites. The other concerns the peculiar and sudden loss of water by sodium silicate glasses by quenching. The samples puff up in a froth with such vigor that the platinum foil envelope is broken open and turned inside out. The phenomenon has been dubbed the "Popcorn Effort." Nobody has been able to explain it, which is the main reason it has not been described in print sooner.

When Tom Bridge was doing his Ph.D. dissertation on the contact zone of the intrusion in Marble Canyon, he discovered a new mineral, which he proposed to call *ingersonite*. The mineral was a new polymorph (" ") dicalcium silicate (Ca_2SiO_4).

About the same time, Cliff Frondel (Harvard) suggested the same name for a new phosphate pegmatite mineral from Brazil. Texas, Marble Canyon, and his own student prompted Earl to give the green light to Tom. Later, when Bridge started to describe the mineral for publication, he discovered that it had disintegrated into a fine powder; it was metastable under atmospheric conditions, so was not a *real* mineral! By that time Cliff had described the phosphate under another name and published the description.

In a recent letter from Peter J. Dunn, a mineralogist with the Smithsonian Institute in Washington, D. C., he mentions a new and very rare mineral from Longban, Sweden. It is a calcium-magnesium antimonate and appears to have structure similar to those of romeite and microlite. He and Donald Peacor of the University of Michigan are determining the properties of the mineral for description in an article in the *American Mineralogist*.

The authors have sent a proposal to the Commission on New Minerals and Mineral Names, of the International Mineralogist Association, to name the new mineral in Earl's honor, but the Commission has not acted on the proposal yet.

It is an interesting coincidence that Earl's ancestors came to the U.S. before the Revolution from southern Sweden not far from Longban, and he went through the district on a field trip to northern Sweden, back when the I.U.G.S. met in Copenhagen in 1960.

In the spring Earl was elected Vice President of the University Chapter of Sigma Xi for the coming academic year.

Last year **Ed Jonas** satisfied a long-standing ambition to go to Brazil. Besides teaching a course for Petrobras at the School of Mines in Ouro Preto, he travelled in other parts of Minas Geras to buy mineral and gem specimens for the Barron Collection. On the way home he took a trip up the Amazon and recommends this as an experience every geologist should have.

After his return from Brazil, Ed and Martha went to California to visit Bart and Jane Bartholomew at their

home near Lake Tahoe. What a lovely place to study glacial geomorphology! There was a light snow the day before the Jonas' arrival, and frost each morning, while back in Austin the temperatures soared into the 90's. But Austin has other attractions, such as grandchildren, cows and chickens, and the house restoration project. The old house is moving along towards completion in about two years, to keep up with the 20-year schedule Ed had set originally.

In the fall semester Ed taught the gem and mineral course to a record- and capacity-sized group of students. In the spring he taught physical geology. Then in the summer he went on a mineral and agate collecting-buying trip to Chihuahua.

Gary Kocurek has declared this year one of "reviewing other people's work rather than your own." This largely stems from being editor for an SEPM Special Publication on "Late Paleozoic and Mesozoic Eolian Systems of the Western U.S.," plus having four students who are finishing theses. He has, however, also managed to write some of his own work and do some research. Most of the research has centered on the dynamics of modern sand dunes, and he spent part of the summer in the deserts of California and Mexico. The four graduating students are Jamie Nielson (Ph.D), Mark Chandler (M.A.), Karen Havholm (M.A.), and Julia Knight (M.A.). Jamie is off to a year of law school, Mark to a Ph.D. pursuit at Columbia, Julia to a Ph.D. program in New Mexico, and Karen will brave a Ph.D. here at U.T. and in the desert.

Gary enjoyed team-teaching two undergraduate classes in depositional systems with Earle McBride, and soloed a graduate course on fluid flow and bedform dynamics. Gary received tenure this year and is feeling somewhat more permanent.

Dianna K. left the aerospace industry to become a self-employed consultant in toxin management, and has staked out a building in downtown Round Rock about five blocks from home. At home, Gary continues his war on fire ants and, shamefully, continues remodeling the old Victorian house. Out on the ranch, five calves were born, the fence washed out three times, and ten young cypress trees planted on the creek are probably somewhere in the Gulf of Mexico by now.

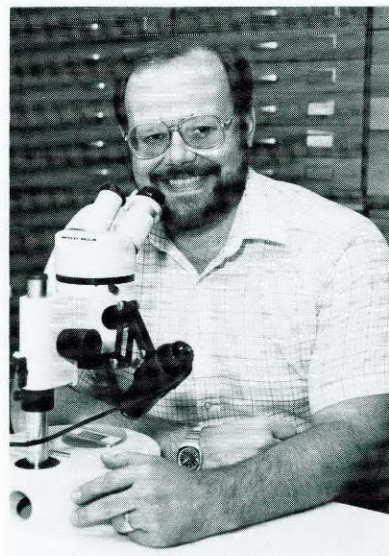
Rich Kyle reports a particularly busy year. In addition to the usual teaching responsibilities for ore deposits and mineral resources courses, he accepted the role of Undergraduate Advisor beginning in January. Thanks to support provided by an Advisory Council Teaching Fellowship, he attended two mini-courses designed to promote interaction among professionals dealing with current ore deposits geology research problems: a Society of Economic Geologists course on epithermal ore deposits and a fluid inclusions

"users" school at New Mexico Tech.

Research on the salt dome cap rock mineralization is progressing at a fast pace. Three graduate students are now involved in varied aspects of the project. Several papers with research colleagues have been published or are in press, including three for a book on "Salt Dynamics" to be published in early 1987. Rich and Steve Seni of the Bureau of Economic Geology are editing a guidebook to some Houston area salt domes for a field trip to be conducted in association with the 1986 annual meeting of the Geological Society of America in San Antonio. Rich is the Society of Economic Geologists program chairman for that meeting and has been busy coordinating plans for field trips, ore deposits special symposia, and general economic geology sessions. Final planning involves a trip to Boulder, Colorado, for the GSA Joint Technical Program Committee meeting.

Rich made research presentations on salt dome mineralization at two universities this year. Tentative plans are to present two talks on mineralization in sedimentary terranes at the Seventh Symposium of the International Association on the Genesis of Ore Deposits in Lulea, Sweden in late summer. This meeting will afford the opportunity to visit some of the classic ore deposits of the Fennoscandian Shield and to collect samples for the departmental ore deposits collection.

Linda, Brock and Brett are all fine. They enjoyed a trip to New Mexico and Colorado in the summer, but Brock and Brett still think that the best mineral collecting locality is Dad's office!



Martin Lagoe

In August, 1985, **Martin Lagoe** made the transition from ARCO Exploration Company in Denver, Colorado, to the Department of Geological Sciences at UT Austin. Since then he has been busy getting settled into the

department and setting up courses. "Introduction to Micropaleontology" (GEO 385K) was taught during the fall semester and "Introduction to Geology" (GEO 303) during the spring. Courses in preparation for the coming year include "Paleoceanography," "Subsurface Stratigraphy" and "Advanced Micropaleontology."

Martin's research projects are currently centered on the foraminifera and depositional history of Cenozoic rocks along the west coast of North America. Current projects include studies of late Cenozoic foraminifera in the glaciomarine rocks of the Gulf of Alaska; Miocene stratigraphy and tectonics of the Cuyama, Santa Maria and Santa Barbara Basins in California; a paleo-environmental study of Eocene foraminifera in the San Emigdio Mountains, California; and studies of planktic foraminifera and chronostratigraphy of late Cenozoic rocks in the Ventura and Los Angeles Basins, California. Groundwork is presently underway for a project on the foraminifera and depositional history of the Midway-Wilcox interval in northeastern Mexico and south Texas.

Fieldwork this summer will concentrate on the Eocene of the San Emigdio Mountains and the Miocene of the Cuyama Basin. Preparations are being made for possible field collecting in northeastern Mexico.

Professional activities were many and varied during the past year. Martin attended the Pacific Section AAPG-SEPM meeting in April and the national AAPG meeting in June. In September he participated in the North Pacific planning meeting for the Ocean Drilling Project (NORPAC). This meeting initiated proposals for deep-sea drilling in the North Pacific Ocean. John Armentrout and Martin submitted a proposal for three holes across the Yakutat continental margin in the Gulf of Alaska. Other professional activities include chairmanship of the Guest Activity Committee for the 1987 SEPM mid-year meeting in Austin; membership on the SEPM future projects committee and participation in the GSA Penrose Conference on the Miocene Reconstruction of Southern California. Martin is also organizing a symposium, sponsored by the North American Micropaleontology Section of SEPM, on paleobathymetry for the Austin SEPM meeting.

Lynton and Judy Land survived Aaron's entry into kindergarten and graduation to first grade despite the 7:10 school bus. On some days, Lynton even beat Bob Folk to the office! The new electron probe continues to be a joy to operate, seeming to unearth new wonders in each new group of rocks studied. The ICP-AES (Inductively Coupled Plasma-Atomic Emission Spectrometer) system was installed late in the spring, but it will be several months before its impact is felt. Depressed oil prices make job-hunting for students much more difficult, and research funds more difficult to maintain. But research funding for the more complex

instrumentation which is necessary to stay abreast of (maybe even push back a bit?) the times is critical to advance our science.

The high point of the year in November was an invitation to teach for two weeks at the Chengdu College of Geology in China. Aaron was deposited with grandparents and Lynton and Judy flew to Shanghai, where, after some sightseeing, some luggage loss, and frequent communication lapses they were deposited (hurriedly!! and with not much English) on a train. Two and one-half days unescorted on a train which crosses most of inhabited China was a real eye-opener and an experience not to be forgotten. Hour after hour of "manicured" fields in the countryside, and roads packed with people, bicycles, trucks and every other conceivable means of conveyance in the cities, emphasized the magnitude of the population problem. Yet the abject poverty and trash characteristic of "democratic" third world nations such as Mexico, India and Egypt, were conspicuously absent. The people seemed content, even downright happy, despite the uniformly low standard of living compared to the U.S. The government-imposed absence of the "upper-class" precludes the "lower-class" in China's society. One wonders if democratic societies can evolve to eliminate poverty without government-imposed loss of personal freedom characteristic of socialist systems.

Our Chinese hosts were extremely friendly and cordial, and we came away with many pleasant memories of people, food, temples, mountains, pandas, Chinese tigers, interesting rocks, and a society with tremendous potential for the future. We recommend the experience to all—and take the train!

Wann and Marietta Langston plan an eventful summer and fall. First they will attend the First International Symposium on Dinosaur Tracks in Albuquerque, this to be combined with a visit with their horse-raising daughter, Karen. From New Mexico they will go directly to Alberta, Canada, to participate in an international symposium on dinosaurian systematics. This leg of the trip will include nostalgic visits to many of Wann's old stomping grounds where he collected dinosaurs for the National Museum of Canada in the 1950's and early '60's. The meeting will be held at the new Tyrell Museum of Paleontology at Drumheller. The Alberta government spent 30 million dollars developing this museum devoted exclusively to paleontology!

June will see the Langstons at the premier performance in Washington of the new IMAX movie, "On The Wing," which was produced by the Smithsonian Air and Space Museum and Johnson's Wax Company. The giant Texas Pterosaur that was recreated by Paul MacCready with paleontological guidance from Wann is the centerpiece of this production. The filming is simply magnificent! The Washington opening is followed three

days later by another opening in New York and there are several others coming up in the fall.

In August, Wann will participate in a colloquium on Mesozoic crocodiles at the National Paleontological Convention in Boulder, Colorado. September holds a trip to England for a conference on extinctions. No doubt this trip too will include a large measure of sight-seeing and visiting now that Wann has no more official responsibilities at UT.

The flying replica of the Texas Pterodactyl was flown successfully some twenty times in January through April during the filming of "On The Wing". Great plans were made for its only public flight on Armed Forces Day at Andrews Air Force Base outside of Washington. Wann was among the guests who, sad to relate, witnessed the second extinction of the pterosaurs as the model went out of control and crashed. It was almost like losing a member of the family. However, in addition to the performance in "On The Wing", the pterosaur and Wann were featured on the ABC News program, 20/20, in April.

Wann is looking forward to his retirement in August after which he is delighted to have the title of the First Mr. and Mrs. Charles E. Yager Professor Emeritus.

Leon Long found himself, as in previous years, managing the triple-headed program consisting of teaching, research and administration. During the fall semester he taught the graduate course in isotope geology, and in the spring it was both the advanced seminar course in isotope geology and the large introductory course (Geo 303) co-taught with Martin Lagoe.

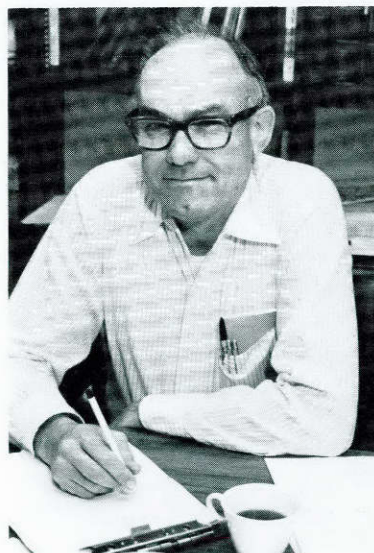
Also in the spring, Leon began his fourth year as graduate advisor. The graduate scene has changed considerably in those years. At first, there were overwhelming numbers of applicants to the graduate program, but 1986 has seen a significant decline in numbers, primarily because fewer undergraduates around the country are majoring in geology. Never before had Leon (and many others in the department) worked so hard at recruitment and this time around, at least, it appears that the department will maintain its customary number of excellent incoming master's and PhD aspirants.

As for research, Leon never fails to get looks of incredulity when he tells people that he is "dating dirt", but that's what he is doing! At least from the criterion of consistency, his application of the Rb-Sr method to dating clay minerals is working beautifully. Currently he is analyzing a paleosol from the Llano Uplift which, depending upon where it is sampled, is anywhere from 30 to 90 million years old. Such antiquity is no surprise, but the idea that soil could have sat on the earth's surface for so long without being eroded causes Leon to have his own scientific incredulity. He's trying to devise

ways to test whether these surprising results can be not only consistent but correct.

Last summer, Leon gave a paper on his preliminary findings at a specialty conference in France, then went traveling with wife, Mary, through Spain, Morocco, and Portugal just for fun. He also presented two papers at the GSA meeting in Orlando and got published a long-standing manuscript (on good clean granite, not dirt). The first half of summer 1986 was a frenzy. The day after final exams were over he began to teach the intersession field course for non-majors. Three days after that finished, he went off to the Galápagos Islands and the high Andes of Ecuador for two weeks, teaching a geology course to a group of high school students from the Austin Academy of Science. (The Galápagos are as exotic and incredible as everyone says they are.) The day after arrival back home, he rushed off to Colorado to teach the field course for a week, then off to Cambridge, England, for a week to give another paper in a conference, then back to Colorado for the final week of Geo 660.

Family news: Mary, who teaches biology at the Austin Academy, won the high honor of Texas State Teacher of the Year for 1985-86. With this came a little bit of money and a great deal of publicity including TV, newspaper, and magazine interviews, trips all around the state to give speeches, and political input to local and state Boards of Education. Mary is by far the more famous person!



Ernest Lundelius

Ernest Lundelius visited museums in New York and Washington in connection with various research projects. In September, the production of fossil vertebrates from excavations in downtown Austin continued with the discovery of the partial skull of an extinct bison on First Street.

Ernie taught Geology 405, "Life Through Time", and Geology 392K, "Vertebrate Biostratigraphy", Geology 397, "Vertebrate Paleontology-Birds and Mammals", and Geology 391, "Seminar on Taphonomy".

Relaxed retirement still seems to elude **John Maxwell**. The last year has included several professional trips, both in and out of the U.S.

During the early fall John and Marian went to Brazil for three months, where he taught a couple of graduate courses in the school run by Petrobras at Ouro Preto. It was very hard work but enjoyable because the students were of top quality, and the Maxwells felt very much at home among the Brazilian people. They spent the final week in Rio, visiting the research laboratory and giving a couple of lectures, and also visiting staff at the downtown headquarters. The results obtained by these facilities in the last few years are quite impressive.

After returning from Brazil, John prepared a paper for the lead-off lecture at a symposium at the Geological Institute of the University of Florence, in honor of Giovanni Merla, who died about a year ago. Professor Merla is widely regarded as the father of modern tectonic and stratigraphic geology of the Apennines, and John had worked with him over two separate one-year stays in Italy. The symposium occupied the third week of March, and afterwards he and Marian spent a delightful week in Sicily, enjoying the beautiful springtime and thumbing their noses at Khadafy across the Straits of Messina.

Then John's major occupation was preparing for the upcoming GSA annual convention in San Antonio, in November this year, as chairman of the technical committee. He has continued to serve as a consultant to the Advisory Committee on Reactor Safeguards of the Nuclear Regulatory Commission. Recently he became a member of an advisory panel to the Gas Research Institute on the exploration of abiogenic methane, specifically with respect to the exploration of the Siljan Ring prospect in Sweden.

In June the Maxwells went to DePaul University for John's 50th reunion. In late summer they went to Red Lodge, Montana, for another 50th anniversary celebration, that of the Yellowstone Bighorn Research Association, where John had taught field geology for many years while at Princeton University.

He still finds much to do at the Department, including serving as a member of the Faculty Search Committee, lecturing occasionally, and advising a few graduate students. He is also trying to pry his last two students out of the woodwork to finish their advanced degrees.

Earle McBride is continuing his work on sandstone diagenesis and is trying to determine when and how sand becomes sandstone, in addition to determining the evolution of pores in the sands. Projects are underway

in conjunction with several students and with colleagues, Lynton Land and Gary Kocurek. One project involves impregnating modern sands from different environments to determine depositional fabric and porosity, and relate these to burial diagenetic events. During a visit to the Great Sand Dunes in Colorado, Earle realized one long-term wish to be in a sand dune field during a mild sandstorm in order to observe eolian processes. He reports that he didn't learn much because he had to keep his eyes closed! Another project on Italian stream sands, done in collaboration with Duke Picard (Utah), was finished recently—they have others still in progress.

The Marathon region of west Texas continues to seduce Earle, in spite of the fact that he is allergic to everything that grows out there. Students are working on problems in the flysch units and on the Caballos Novaculite. Earle and graduate student, Tim Diggs, led a field trip to the Marathon region in May for the Permian Basin Section of the SEPM.

Earle served as co-convenor of a conference on the timing of siliciclastic diagenesis that was sponsored by the Gulf Coast Section of the SEPM Foundation and held in Austin in December. He continues to serve as chairman of several committees for the national SEPM. The SEPM awarded him Honorary Membership in June.

Earle and Donna attended the International Association of Sedimentologists Congress in Canberra, Australia, in August. Attendance at the congress was less than anticipated, for obvious reasons. Earle had the opportunity to do some field work in central and eastern Australia and, prior to the congress, in New Zealand.

If the International Geological Congress is the Olympics of geology, the International Volcanological Congress is the same for volcanology. Thanks to considerable support from the University and the Geology Foundation, **Fred McDowell** was able to attend this year's Congress in New Zealand during February, along with approximately 500 volcanologists and igneous petrologists from throughout the world. Participation in both pre- and post-meeting field trips as well as the Congress itself provided 20 days of direct contact with many eminent scientists, some of whom were previously known to Fred through their publications only. Along with its rich array of tourist attractions, New Zealand has a variety of youthful volcanic features that provide models for classic studies of relationships that are unique or that are less well exposed elsewhere. Consequently, New Zealand is the scene of some very exciting current research, especially in the area of physical volcanology. More importantly there are enormous opportunities for new research, a fact that no doubt kept many at the Congress scheming to justify a return visit. On his way back from New

Zealand, Fred visited the excellent geochronologic facilities at the Australian National University and spent two days touring the Volcano National Park on the isle of Hawaii.

Presentations by Fred and graduate student, David Wark, at the Congress provided welcome exposure for study of the magmatic history of western Mexico. That project is still undergoing a transition from emphasis on basic reconnaissance mapping to utilization of sophisticated analytical tools, attempting to understand magmatic evolution on a regional scale more fully. In the past year, through a liaison with Los Alamos National Laboratories, David Wark has obtained some intriguing isotopic analyses that just begin to scratch the surface. More convenient access to an appropriate mass spectrometer will be required to exploit this and other isotopic systems adequately. Consequently, Fred is participating eagerly in Departmental attempts to obtain outside funding for such an instrument. Since the University has approved construction of a supporting clean chemical laboratory, he anticipates devoting significant time in the coming year to collaboration with Nick Walker and others in outfitting this facility, in developing and learning chemical procedures, and in beginning to use them on the volcanic rocks of western Mexico.

Sharon Mosher feels like she spent the fall teaching and the spring catching up on everything else. In the fall, along with the graduate advanced structure, she taught Muehlberger's undergraduate course which traces the evolution of the continents from the Archean to the present. She discovered that most of what she had been taught in school was very outdated and now often untrue, so that she had to relearn everything before each lecture. It was a very broadening experience, and the students seemed to learn a lot. The course contained a substantial writing component and she also found teaching the students how to write enjoyable. After teaching that course and reviewing grants for GSA for a second year, she feels like this year was a difficult one, but the amount she learned made it worthwhile.

She and her advanced graduate class from the previous spring spent the first few months of the fall getting ready for their GSA poster on planar fabrics and strain in shear zones. The poster was very successful and always crowded. "I was really proud of my students." In the spring she compiled her and her students' Narragansett Basin data for the proposed new Rhode Island state map and presented it at Northeastern GSA. Otherwise the spring was spent finishing up some papers, teaching, and supervising students. She was able to do some reconnaissance field work of the west Texas Precambrian uplifts and of the Brevard zone in the Southern Appalachians, and took over as director of field camp. In the summer she taught in Taos for six

weeks then returned home to finish up some more papers, a book chapter and write a grant. On a personal note, Sharon found out what happens to people who never wear hard hats, how satisfying it is to know where you'll be living in a year or six months, and how fun (and exasperating!) a two-year-old can be!

Bill Muehlberger again split his time between the Tectonic Map of North America (full-time fall semester) and teaching (full-time spring semester). This year has been almost a repeat of last year (i.e. extensive travel, some progress on completing the map, and ultimate deadlines sliding slowly into the future).

The mock-up of the south half of the Tectonic Map of North America was displayed at the AAPG annual meeting, Atlanta, Georgia. Critiques by those at the meeting were welcome because they will sharpen up several critical areas. Summer travel will mainly concern meetings with major compilers for their (final?) input and comments so that final drafting can get underway.

Graduate students' projects in west Texas have produced a flood of new data as well as significant improvements of our understanding of that complex region. Eight of them (past and present) wrote articles for the West Texas Geological Society Field Trip Guidebook (WTGS publication 85-81). Their topics ranged from superimposed Laramide and basin-ridge structures in Big Bend National Park, extensional (strike-slip related) tectonics in Salt Basin, and a number of careful studies in various segments of the Marathon overthrust belt.

Bill also manages to keep busy by being on several national committees, associate editor of *GSA Bulletin*, and offering geological advice to the astronauts.

During the 1985-1986 school year, what time **Amos Salvador** did not spend preparing and revising class notes and teaching was principally devoted to writing and editing material for the volume on the geology of the Gulf of Mexico Basin for the GSA's project known as the Decade of North America Geology (DNAG), and on matters related to the International Subcommittee on Stratigraphic Classification (ISSC) of which Amos is chairman. Most of the summer of 1985 he spent working on the DNAG volume.

The ISSC and the DNAG volume will continue to take most of Amos' nonteaching time during the next year.

John Sclater is continuing his research on the tectonic history and subsidence of continental basins and shelves. He has rescued the departmental clay table from the structural laboratory where it was used for storing rocks. His students are now using it to do clay modelling experiments in cooperation with Martha Withjack of ARCO. The gearing system built initially by

Ralph Kehle when he was a professor at UT and the ability to use the table in a hermetically sealed room has turned this equipment into one of the most advanced of its kind in the world. To the surprise of everyone, the stretching experiments on the clay appear to duplicate remarkably well faulting in the real world.

Other research areas which John has been pursuing are the relation between depth and age in the sea floor and worldwide paleogeographic and paleodepth studies. In the first area, an attempt is being made to find out if broad deviations from the predicted relation between depth and age, such as the swell produced around Hawaii, are related to convection in the upper mantle. In the second topic, the objective is to produce worldwide paleogeographic and paleodepth history of the ocean floor from the Jurassic breakup of Pangaea until present. The work which will concentrate on studying seaways and the influence of past depths on paleo sedimentation in the oceans is a cooperative project with Chris Scotese of the Institute for Geophysics. Chris appeared on the Planet Earth program on TV last year illustrating his computer graphic methods of reconstructing the past history of the ocean floor.

Jack Sharp notes that advising ten to twelve graduate students, teaching four courses, occasional consulting, and serving as Associate Chairman have kept him hopping. Nevertheless, he has enjoyed himself immensely. Two of Jack's students finished — Dan Bodner (M.A.) joined Woodward-Clyde Consultants in San Francisco and Paul Blanchard (Ph.D.) took Jack's old slot at the University of Missouri. This continues the strong Texas-Missouri connection started by Sam Ellison. The most exciting part of Jack's research is finding thermal anomalies along the Wilcox growth-fault trend which may be caused by deep upwelling basinal fluids. This along with studies of possible free connection in the Gulf Coast sediments, the evolution of geopressures, and the hydrogeologic effects of salt domes are presenting a clearer picture of the hydrodynamic evolution of the Gulf of Mexico. Other student projects include the hydrogeology of alluvial basins of west Texas (including groundwater management and geochemistry issues), water quality along the Edwards Aquifer "bad-water line", and flow system delineation in the Hickory Sandstone (north of the Llano). Jack is also eagerly awaiting full operational status of the ICPS so that trace elements can be used to expand these hydrogeologic studies.

Jack taught "Hydrogeology" (graduate), "Groundwater Hydrology" (senior), "Geology and Hydrology" (graduate), and "Groundwater Field Methods" (field class) last year. These courses, along with complementary geology and engineering courses provide a sound instructional basis for the hydrogeology program. The

spring's four-day field trip for "Geology and Hydrology", including the ceremonial viewing of the Comanche Springs pupfish, was a great success, although the students haven't yet learned to love the greasy french fries served in Coyanosa or Dell City.

Administratively, the procuring of the ICPS and working with Bill Fisher in the front office were quite satisfying. Jack also served on numerous committees — (Departmental and University), is on the Advisory Council of the International Association of Hydrogeologists, the American Institute of Hydrology Registration Board, and will be program chairman for the Hydrogeology Division at next fall's GSA annual meeting in San Antonio. Jack is vice-president of the Hydrogeology Division.

Finally, after years of delay, Jack went "under the knife" last fall. The left knee is better than before, but the handball game isn't!

As an added note, Jack, Carol, Katie (11) and David (8), are proud to announce the addition of Susan Elizabeth (born May 20, 1986), to the family.

Bill Sill reports that he hasn't done much travelling this year, putting most of his time and effort into teaching. In his "later years", he's becoming more concerned about the quality of his teaching than he used to be.

Bill is also working on the paleo-correlation and field representation of a newly discovered overthrust in the northeast sector of the Llano Uplift, which work could have major implications for petroleum exploration. Bill continues supervising one PhD candidate at the Universidad Nacional de Mexico, who is working in the Cretaceous south of the volcanic belt.

The last of the Sill kids will leave home this year. Bill is looking forward to the "empty nest" syndrome.

Doug Smith enjoyed the pleasant contrasts provided by research and teaching. His research continued to be focused on samples from the mantle, brought to the surface in explosive volcanic eruptions. Since the samples are mostly from Africa and other exotic locales, opportunities for field work are limited. Instead, most research time was spent in front of a computer terminal or in the new electron probe lab. The electron probe has worked beautifully, but the lab room has no windows and is full of whirring and chattering instruments—certainly not an appealing geologic environment. He introduced a new undergraduate course this year which helped to compensate for the long lab hours. The course, titled "Evolution of Geologic Provinces," is centered around a field trip during spring break. This year, New Mexico was trip destination, and geomorphology the principal emphasis, but mines, reefs, and rifts were also visited. Weather was beautiful, and Halley's Comet was visible from the warm environment of a sleeping bag. Trips in future years may go to more

exotic locations, limited only by time and budgets. Doug wonders if alumni-faculty trips would be a feasible way for grads to keep in touch with department activities. He plans a suitably exotic trip for himself in the summer—to Western Australia for a conference and field trip to the new diamond localities.

Jim Sprinkle finished up as the department's undergraduate advisor last fall, and completed his job as SEPM editor of the GCAGS-SEPM *Transactions* volume for the 1985 meeting here in Austin. He also finished a two-year term on the Paleontological Society's Schuchert Award Committee, but was immediately appointed to the Strimple Award Committee, thus proving that committee assignments never end.

Jim taught "Paleobiology" (to the smallest group of juniors since 1971) and the graduate "Paleobiogeography" in the fall, "Plate Tectonics and Earth History" and a research course in the spring, and three weeks of field camp in the early summer before going off to do several weeks of field work in the central and northern Rockies. During the year he published two short taxonomic papers (one with two undergraduate students in the Department), a book review, and an article evaluating programs in one of the Macintosh computer magazines. Jim reports that he is still looking for a text-oriented database to use on his Macintosh for taxonomy and classification of fossil echinoderms, sort of like having a complete and up-to-date *Treatise* volume on two or three computer disks.

Nicholas Walker joined the faculty in January after recuperating from injuries incurred in a bicycle accident in July. Spring semester was spent teaching undergraduate "Mineralogy and Petrology" and the seemingly endless task of ordering equipment and supplies for the geochronology "clean" laboratory which is expected to be operational during early spring semester of 1987. With the addition of this lab, the Department will have available U/Pb geochronological capabilities in addition to the K/Ar and Rb/Sr facilities already established.

In March Nick presented an invited paper entitled "U-Pb zircon ages from the southeast San Gabriel Mountains, California: Evidence for Cretaceous metamorphism, plutonism, and mylonitic deformation predating the Vincent Thrust" at the Cordilleran sectional meeting of the GSA in Los Angeles.

In April he was awarded a grant from the University Research Institute to investigate the age, origin, and thermal history of late Mesozoic plutons of northeastern Oregon. This summer will be spent conducting field investigations funded by this grant, in addition to completing other field projects in northeastern Oregon and west-central Idaho and leading a field trip in Hell's



Nicholas Walker

Canyon of the Snake River for the Hell's Canyon Geological Society.

John Warren's book will be out in early 1987 and will be entitled, *Facies Analysis in Evaporitic Settings: Its Importance in Hydrocarbon Accumulations*. John notes it is not the best of times to be expecting a best seller with a text that deals with oil and gas related topics. Student numbers in his undergraduate class in depositional processes (Geo 416M) reflect the downturn in the industry. In his first class in fall, 1982, there were 320 students; last spring he had 65 students in the same class.

Last year was a fruitful one in terms of research. Three new projects were started, one of them stemming from a very positive interaction with the Lacustrine Studies Group of Chevron Research in La Habra, California, where John has twice been a guest lecturer at in-house symposia. By this interaction he learned that in lacustrine settings there is a real hole in our understanding of the depositional interrelationships between the siliciclastic apron and the evaporitic basin center. Outside of deltaic sequences, there is no good understanding of how porous sandstones are deposited in lakes and playas. Yet major lacustrine reservoirs are to be found in the Red Wash Field of the Green River Basin, Cabinda in offshore Angola, and many of the onshore fields in China. To gain an understanding of this interaction, John has set up a thesis project with PhD candidate Mike Rosen to study the relationships between siliciclastics and evaporites in a number of playas in southern California. Two other projects started in the last 12 months were studies on the controls on dolomitization in two well-known sequences. Master's candidate Matt Parsley has begun a study on

dolomite distribution in the back-reef strata of the Guadalupes and Joe Ramage is about to begin studying San Andres dolomites in the Palo Duro Basin.

Thanks to Tenneco funding, John has also been working with Master's candidate John Worrall on the controls of dolomite occurrence in the Smackover in Hatters Pond Field, Alabama. This is an interesting field as it contains evidence of at least three stages of dolomitization; an early sabkha dolomite, a late mixing zone dolomite and a still burial stage ferroan dolomite. Initial results of these studies will be presented at the 1986 GSA meeting in San Antonio.

This fall John will be on a one-semester sabbatical at the University of Copenhagen where he has been appointed Visiting Professor in Nordic Petroleum Geology. His family will accompany him and they are all looking forward to a five-month stay in Denmark.

Clark Wilson spent the fall semester teaching his usual courses, "Exploration Geophysics" and "Linear Systems," and, in addition, co-taught a new graduate course on inverse theory. During the spring semester he taught "Structure of the Earth," worked with Li Zhian, visiting scholar from Peking Normal University, on earth rotation problems; and worked with Project SEER students on seismic-reflection exploration methods. Bicycle riding to school has been restricted due to the transportation requirements of daughter, Kirsten, who arrived during the summer of 1985. Research funding from the NASA Crustal Dynamics Program appeared in March, 1986, and will support graduate students working on earth rotation problems through the coming year.

Not much new with **Jack and Marge Wilson**. It has been a rather quiet year. Last January they returned to Maui to escape the "Austin Disease." Ann and Dick Bloomer were neighbors for awhile. The pace picked up this spring when they visited their three grandsons in California in May. They also visited Carroll Ann Hodges (BA '58) at her home in Woodside, California. Carroll Ann worked at the Vertebrate Paleontology Lab during her undergraduate days. (She became the 75,000th graduate of UT and gave the commencement address that year, 1958. She is now Assistant Chief Geologist, Western Region, USGS.) Carroll Ann just happened to have the ingredients, so Jack made the margaritas. Her horse was deprived of the treat because of youth! (See photo under Carroll Ann's item in Alumni News).

In June Jack and Marge attended Marge's 50th reunion at the University of Michigan in Ann Arbor. In July they attended the reunion with geologists of 1947 in Colorado. Jack is still at the Vertebrate Paleontology Lab looking at old bones, cataloguing, and keeping off the streets. Both continue to have good health and enjoy Lake Travis.

Keith Young taught "Physical Geology" and "Stratigraphy" during this year. In addition, having been at UT since 1948, he decided to try his hand at teaching the "Geology of Texas." This exercise impressed him with how little he knew about that subject.

In October he and C.M. Woodruff, Jr. led a field trip through the Austin Chalk of the type area. It rained and rained, and may have been the wettest field trip ever attended.

What with a successful field trip and meeting in Tubingen in the late summer of 1985, Keith was encouraged to go to Europe again, this time to study Late Jurassic and Early Cretaceous ammonites at the British Museum during part of June, 1986. This was prompted by finally getting together a large number of ammonites from rocks of those ages in the subsurface of Texas and Louisiana, collected by Roy T. Hazzard, F. E. Lozo, W. S. Atkins, and Tuve Swain, among others. These will constitute his next major project. After Keith's sojourn at the British Museum of Natural History, Keith and Ann saw something of the British Isles.

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Endowed Centennial Lecturers

During the spring semester, 1986, two distinguished visitors occupied endowed Centennial Lectureships. Dr. Halfdan Carstens, Vice President of Exploration for the Norwegian Petroleum Exploration Company (NOPEC) was the first Edwin Allday Lecturer in Geological Sciences. Dr. Roger C. Walker, Professor of Geology at McMaster University was the first holder of the Judd H. and Cynthia S. Oualline Centennial Lectureship in Petroleum Geology.

Dr. Carstens, with degrees from the University of Oslo, gave a month-long seminar on the geological and

geophysical interpretation of the North Sea. The seminar was amply illustrated with many excellent seismic lines.

Professor Walker, who holds a PhD from Oxford, presented a week-long short course on shelf sandstones. Dr. Walker is one of the world's top sedimentologists who has lectured extensively for AAPG and for a large number of oil companies worldwide. His specialty is clastic sediments and environments, especially shelf and deep-water deposits.

A total of seven endowed lectureships have been established in the Department and they will continue to be used to bring distinguished scientists to the Department for extended visiting periods.

VISITING SPEAKERS

Academic Year 1985-86

- Atilla Aydin, Purdue University, "Wrench tectonics."
- R. A. Berner, Yale University, "Organic matter deposition and pyrite formation over Phanerozoic time."
- F. R. Boyd, Geophysical Laboratory, Carnegie Institution of Washington, "Diamonds and the African lithosphere."
- Clement H. Bruce, AAPG Special Lecturer, "Smectite diagenesis—Its relation to structural development and hydrocarbon accumulation."
- Charles E. Chapin, AAPG Distinguished Lecturer, "Two-stage Laramide orogeny in southwestern United States: Tectonics and sedimentation."
- George E. Claypool, USGS-Denver, "Oil-source rock correlation and burial history reconstruction in the Great Basin." "Formation of methane hydrate in continental slope sediments, west coast of Central America."
- Patrick Domenico, Texas A&M University, "Local and regional scale studies of fluid of displacement in geologic formations."
- John Edmund, Massachusetts Institute of Technology, "The geochemistry of the weathering environment of the Orinoco Basin."
- Anthony W. England, Astronaut, NASA, "Space flight experience aboard Space Lab 2."
- W.G. Ernst, UCLA, "Precambrian crustal evolution."
- Mike Fracasso, Bureau of Economic Geology, "Origin of reptiles: *Limnoscelis paludis*, cladism, and temporal tenestreae."
- Kazuya Fujita, Michigan State University, "Seismicity and tectonics of northeastern Asia and implications for plate motions."
- Michael J. Holdaway, Southern Methodist University, "Nature and conditions of regional metamorphism of pelitic rocks in west-central Maine."
- Herbert Huppert, Department of Applied Mathematics and Theoretical Physics, Cambridge University, "Intrusion of fluid dynamics into geology."
- David R. Kingston, AAPG Distinguished Lecturer, "Worldwide basic classification and oil-play prediction."
- Charles Kreitler, Bureau of Economic Geology, "Hydrogeology of sedimentary basins: Palo Duro basin as an example."
- James Luhr, Franklin and Marshall College, "El Chichon volcano, Chiapas, Mexico: Primary igneous anhydrite, high-sulfur magmas, and mineralized magmatic systems."
- J. Casey Moore, University of California-Santa Cruz, "Mechanisms of accretion, small-scale fabric development, and fluid flux in sediment dominated accretionary prisms."
- David M. Raup, University of Chicago, "Mass extinctions."
- Mark H. Reed, University of Oregon, "Hot springs and ore formation: Numerical models of reactions in boiling geothermal and epithermal systems."
- Timothy Rowe, University of California-Berkeley, "The role of fossils in phylogenetic analysis: Test cases using recent and fossil tetrapods."
- Harrison H. Schmitt, Former Astronaut, NASA, "Trip to the moon; current space challenges."
- Paul Sereno, Columbia University, "Dinosaur phylogeny: Biogeographic and ontogenetic implications."
- J. C. Storrer, Rice University, "Erupting batholiths: The nature of the magmatic sources of giant silicic ash-flow eruptions."
- Glenn Storrs, Yale University, "The anatomy and relationships of *Corosaurus alcovensis* (Reptilia: Nothosauria) and the Triassic Alcova Limestone of central Wyoming."
- R. C. Surdam, AAPG Distinguished Lecturer, "Predictive models for sandstone diagenesis."
- Dimitri A. Sverjensky, Johns Hopkins University, "Solutions and reactions that formed stratabound Pb-Zn-Cu deposits in carbonates, sandstones, and redbeds."
- Peter Vail, Exxon Company Houston, "Sequence stratigraphy and tectonic sea-level controls."
- Roger Walker, McMaster University, "Shelf sandstones."
- G. J. Wasserburg, California Institute of Technology, "Isotopic composition of neodymium in seawater and in continents."
- Bruce H. Wilkinson, University of Michigan-Ann Arbor,

"Global records from common limestones: Secular variation in the composition of Phanerozoic atmospheres, oceans and marine carbonates."

John Young, Chief of the Astronaut Office, NASA, "Space: Past, present, future."

Peter A. Ziegler, AAPG Distinguished Lecturer, "Evolution of the Arctic—North Atlantic rift system."

STUDENT SPEAKERS

Technical Sessions

Fall 1985

Paul E. Blanchard, "Fluid flow in compacting sedimentary basins."

Daniel P. Bodner, "Growth faults as fluid pathways."

Clinton D. Cagle, "Seismic stratigraphy of the central Tonga arc."

Mark A. Chandler, "Patterns of fluid flow heterogeneity in eolian sandstone sequences."

Susan L. Cook, "Geology and geochronology of the Palomas area, Chihuahua, Mexico."

Erik K. Davidsen, "Petrology and structure of greenstone blocks encased in mud-matrix melange of the Franciscan complex near San Simeon, California."

Trevor A. Dumitru, "Thermal history of the Great Valley forearc basin and its implications for the tectonics of the California plate margin."

Joseph O. Ebeniro, "Analysis and interpretation of very long offset seismic data in the Gulf of Mexico—A realistic approach."

Karen G. Havholm, "Draa dynamics—A study of a modern draa, Algodones dune field, California."

Daniel C. Huston, "Interpretation of seismic signal and noise through line intersection analysis."

Susan Ide, "Stratigraphic and structural relationships of geochemical suites among mid-Tertiary volcanics, Chihuahua, Mexico."

Woohan, Kim, "Optimum beamwidth for Gaussian beams in three-dimensional problems."

Douglas A. McGooley, "The Queen Formation of the Ozona arch area of Crockett County, Texas: Structure and depositional systems."

Jamie A. Nielson, "Surface processes, migration behavior, and deposits of eolian bedforms."

Miriam L. Renkin, "The relationship between depth and age in the North Pacific Ocean."

Janice L. Smith, "Metamorphism and structure of the Little Llano River region, Llano uplift."

Tracy J. Stark, "System wavelet calibration and the extraction of velocity information from deep-water seismic-reflection data."

Charles P. Todd, "Seismic offset-dependent reflectivity."

James V. Vanderhill, "Lithostratigraphy, vertebrate biostratigraphy, and magnetostratigraphy of Plio-Pleistocene sediments in the Mesilla Basin, southern New Mexico."

Jay N. Vogt, "Dolomitization and anhydrite diagenesis of the Permian San Andres Formation."

Anne H. Walton, "Biostratigraphy and magnetostratigraphy of the lower and middle members of the Devil's Graveyard Formation, Trans-Pecos Texas."

Spring 1986

Katharine L. Coley, "Folded thrusts of the Warwick hills, Marathon, west Texas."

William P. Corso, "Geologic history of early Cretaceous carbonate platform edges, eastern Gulf of Mexico."

Carol A. Evans, "Microstructures and sense of shear, Brevard zone, southern Appalachians."

Christopher J. Finn, "The estimation of 3-D dip and curvature from reflection seismic data."

Graham E. Fogg, "A geostatistical method of estimating aquifer or reservoir interconnectedness."

Joseph S. Greenberg, "Diagenesis of the James Reef Member, Pearsall (lower Cretaceous) Formation, Fairway field, east Texas."

Timothy J. Jackson, "Diagenesis of Wilcox mudstone and its relationship to sandstone cements."

Steven A. Kautz, "Clay modelling and its implication for extensional tectonics."

Kirt A. Kempter, "Geology and geochronology of the Tomochic caldera area."

John I. LaFave, "Groundwater flow delineation, northeastern Jeff Davis and Reeves Counties, Texas."

Karen J. Meador, "Shelf to basin correlations off eastern Canada: Building a seismic stratigraphic framework in the northern New Foundland Basin."

Donald E. Miser, "Microstructures in dolomite."

J. Todd Mitchell, "Submarine cementation and organic binding of a Holocene hardground: North Jamaica."

Susan N. Witebsky, "Paleobiology and stratigraphy of the Haymond Boulder Beds, Marathon, Texas."

John G. Worrall, "Deposition and diagenesis of the Jurassic Smackover Formation, Hatter's Pond Field, southwest Alabama."

Earl Ingerson Honored By A Festschrift

Professor Emeritus Earl Ingerson's long-standing contribution to geochemistry is being honored by the F. Earl Ingerson Festschrift. The Festschrift is being published as Volume I of *Applied Geochemistry*, the journal of the International Association of Geochemistry and Cosmochemistry. In this first volume, there is a tribute to Professor Ingerson written by Michael Fleischen. The volume, edited by Brian Hitchon, consists of invited papers.

Earl joined the Geophysical Laboratory of the Carnegie Institution in 1935 after receiving his PhD at Yale. He later joined the U. S. Geological Survey and served as Chief of the Geochemistry and Petrology Branch and in 1955 he received the Geological Society of America's Day Medal for his geochemical contributions. In 1958 Earl came to the Department and also served as Associate Dean of the UT Graduate School from 1961-1964.

While at UT Earl has taken an active interest in the International Association of Geochemistry and Cosmochemistry. Earl helped, while at UT, to found both *Geochimica et Cosmochimica Acta* and *International Geology Review*. The Festschrift thus honors Professor Ingerson's long history of contributions to the field of geochemistry and his role in founding its major



Earl Ingerson

scientific organizations.

Earl Ingerson is also noted for his numerous successful graduate students who profited by his counsel during their years at UT. These students include:

Alfred Edward Bence, MA, 1964, Geothermetric study of quartz deposits in the Ouachita Mountains, Arkansas.

Thomas E. Bridge, PhD, 1966, Contact metamorphism in siliceous limestone and dolomite in Marble Canyon and geology of related intrusion, Culberson County, Trans-Pecos Texas.

Uel S. Clanton, Jr., PhD, 1968, Sorption and release of strontium-89 and cesium-137 by Recent sediments of the Guadalupe River of Texas.

Lawrence Paul Cook, MA, 1969, Phase relations in the system NaCl-SiO₂-H₂O.

Paul Henry Eisenbraun, MA, 1977, An electron microscope investigation of chalcopyrite exsolution from sphalerite.

Ronald M. Geiger, MA, 1965, Quitman Mountains, intrusion, Hudspeth County, Texas.

Roger William Kolvoord, PhD, 1975, Spectrometric study of solutions at elevated temperature and pressure.

John Peter Laux, III, MA, 1969, Mineralization associated with the Quitman Mountains intrusion.

Robert Alan Levich, MA, 1973, Geology and ore deposits of the Sierra de Santa Maria Dome, Velardena mining district, Durango, Mexico.

Donnie F. Parker, Jr., MA, 1971, Stratigraphy of Tertiary volcanic rocks, Trans-Pecos Texas.

Frederick J. Pearson, Jr., PhD, 1966, Ground-water ages and flow rates by the carbon-14 method.

Craig Turner Rightmire, MA, 1967, A radiocarbon study of the age of origin of caliche deposits.

Charles M. Schlautdt, MA, 1960, Temperatures of mineral associations with quartz from liquid inclusions.

Michael Alexis Smith, PhD, 1975, Geology and trace element geochemistry of the Fort Davis area, Trans-Pecos Texas.

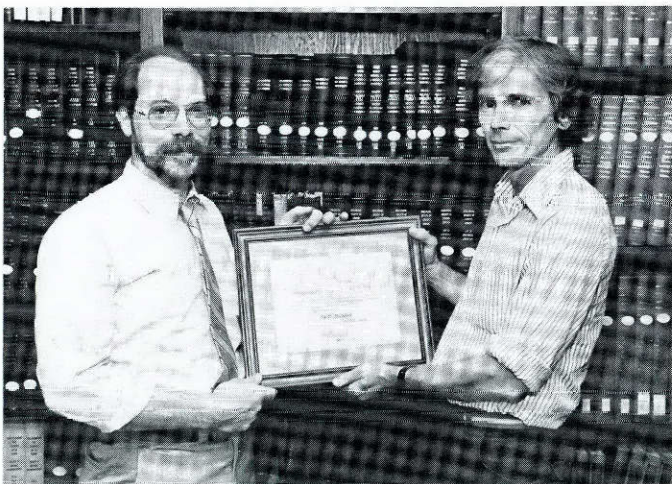
Sivaborvorn, Vichai, MA, 1974, Re-study of hydrocarbon distribution around the Hilbig Oil Field, Bastrop County, Texas.

Robert Wershaw, PhD, 1963, Oxygen isotope fractionation in the system quartz water.

Walter Geology Library News

Dennis Trombatore began his duties as the new Geology Librarian on July 1, 1985. Dennis has a BA in Philosophy and an MA in Library Science, both from Louisiana State University. Previously he had worked at the University of Georgia, where he was coordinator of collection development for the Science Library and physical sciences bibliographer.

In other personnel news, Jim McCulloch, Library Assistant I in the Geology Library, received a University Excellence Award in May. The award carries a \$500.00 honorarium, and is given annually to only 50 University staff members for outstanding performance. Under the direction of Virginia Phillips, Assistant Director for Branch Library Services, Jim was responsible for continuity of service during the year-long recruitment period for a new librarian. Congratulations to Jim, and thanks to those who supported his nomination.



Dennis Trombatore (left), geology librarian, congratulates Jim McCulloch on receipt of UT Excellence Award.

The Geology Library book collection is now completely coded for automated circulation, and a recent count showed the collection numbers over 73,000 items, over 32,000 geologic maps in the Tobin International Map Collection, and nearly 5,500 microforms.

More than 1500 volumes, 1200 maps and 500 microforms are added yearly. This year heavily-used maps on reserve were coded for the first time, and plans are being made to code more map materials for automated circulation.

Space continues to be a persistent and difficult problem, and coupled with preservation of older and heavily used materials, is an increasing concern. For both space and preservation considerations, some suitable older material has been identified for transfer to microfilm. This is not appropriate in all cases, however, and new technologies such as compact discs will ultimately be needed to preserve materials on site in a usable form. Conversion of large quantities of material will be slow and expensive.

Several projects have been initiated to ease crowding, improve comfort, and increase reader space in the Geology Library. Over 100 feet of shelving have been added, and older unused duplicate materials have been sent to storage or withdrawn. Lighting, reduced some years ago, has been restored to full strength in the stack areas.

As part of a general refurbishment of public spaces in the Geology Building, the library was repainted for the first time since the building opened. This has greatly improved the appearance of the entire area, especially in the back room.

Several projects begun over a year ago are complete. The back room, long a crowded storage area, has been cleaned out and is being converted to reader space, a microforms area, and a staff work area for processing gifts.

In October of 1985, thirty new map drawers were added to the map cases, a twenty percent increase in flat-map storage space, and shifting to incorporate this new space is in process. A dual-lens, image-rotation microfiche reader was also purchased to accommodate the growing number of USGS Open-File Reports available on microfiche.

A lighted tilt-top drafting table and several wire rolled-map files were purchased with Tobin funds for the map collection in March of 1986.

When the Bureau of Economic Geology moved to Balcones Research Center, changes in procedures and services were made to accommodate the Bureau Staff and Reading Room. Bureau Reading Room/Data Center Supervisor, Jeff Thurwachter, and the Geology Library staff have worked together to develop and improve services between the two units.

In March, Jeff Thurwachter and Dennis Trombatore visited the Geologic Information Library of Dallas to tour the facility and discussed cooperative agreements and exchanges. They plan to visit other geologic libraries in the area in the coming year.

Several significant gifts were received this year from the family of Mr. Wesley Gish of Austin, the family of Mr. J. H. Tatsch of Fredricksburg, Mr. Anatoly Kaplan of Houston, and Dr. Peter Flawn. These gifts included professional journals, texts, theses, maps and atlases, well logs, well completion cards, and a variety of other

materials, primarily in English, Spanish and Russian. These gifts alone numbered nearly 100 cartons.

In addition, faculty, graduate students, alumni and friends have, as usual, been generous with their donations of materials.

All gifts are carefully reviewed for possible addition to the Geology Library. Frequently, when the material duplicates library holdings, it is offered to other geologic libraries. First choice is given to the Bureau's Reading Room.

This year, large numbers of well logs and completion cards went to the Bureau along with books and journals. Other large donations went to Abilene Christian University, the Geological Information Library of Dallas, and the Universidad Autonoma de Nuevo Leon in Linares, Mexico.

Linares is to be an ongoing destination for some duplicate materials, and they have begun to send current geological information from Mexico in exchange. Other exchanges or gifts have been as close as UT Arlington and as far as the British Museum.

Finally, the current University-wide fiscal restrictions have had a significant effect on overall library staffing, procedures and services. Declining federally-subsidized services, declining dollar value abroad, 4-7 percent increases in the cost of library materials, and most important, the State budget shortfall, have combined to impact all areas of the General Libraries.

While some sacrifices will be necessary during this difficult period, the continued support of the Geology Foundation through the Walter, Tobin, Whitney, and Books for Geology endowment funds, as well as the exchange program of Bureau of Economic Geology publications, help make it possible to maintain the strength of our collections and services in the Geology Library.

Inductively Coupled Plasma Spectrometer

Thanks to the generosity of the Geology Foundation, and special contributions by Exxon, Arco, Marathon, Conoco, Mobil, Sohio, Texaco and Union, the Department was able to procure an Inductively Coupled Plasma Spectrometer (ICPS). The University provided matching funds of \$66,000. The ICPS is used for chemical analyses of aqueous solutions, waters, brines or minerals (dissolved, for instance, in H_3PO_4). The new JY70 can analyze simultaneously for over 40 trace elements at trace levels or can quickly screen a wide range of elements to determine if they occur in



Wendy Macpherson, graduate student, discusses operation of ICPS with Karl Hoops, analytical chemist.

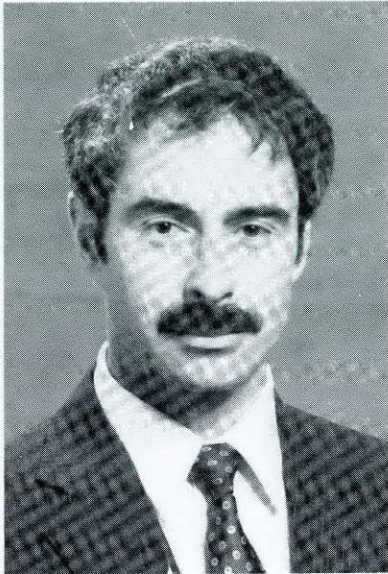
significant quantities. The ICPS also allows the analysis of many elements which can only be determined with extreme difficulty by other methods.

The new ICPS will greatly benefit the disciplines of economic geology, geochemistry, hydrogeology and all areas of petrology. As an example, analysis of microscopic samples of cations, in sediment cements, coupled with analysis of the stable isotopes of carbon and oxygen, will permit accurate testing of models of cementation diagenesis and gangue mineralization. Again, our thanks to our industrial supporters. We invite our alumni to visit our new acquisition in its snug new home in Geology 510. Graduate student Wendy Macpherson and technician Karl Hoops have been instrumental in getting the ICPS operational.

Geology Foundation Advisory Council

Two new members will join the Geology Foundation Advisory Council in September, 1986. Appointments to the Council were approved by the Board of Regents in May, after being recommended by vote of the Advisory Council early in the spring.

Dr. David S. Birsa received his PhD from Texas in 1977. He received the BS degree in 1972 and the MS degree in 1974, both from Ohio State University. In 1977 he worked as an exploration geologist for Chevron USA Inc. in Denver, then in 1978 began working as a geophysicist for Chevron in the Rocky Mountain



David S. Birsa

Division. From 1980 to 1983 he was district supervisor, Wasatch Plateau District. In March of 1983 he became exploration coordinator, Sudan, for Chevron Overseas Petroleum in San Francisco. He began working at his present position as manager, geology division, at



David S. "Scotty" Holland

Chevron Oil Field Research Company in La Habra, California in May, 1985. Dr. Birsa is a member of the American Association of Petroleum Geologists, Rocky Mountain Association of Geologists, and the Northern California Geological Society.

Mr. David S. "Scotty" Holland received his BS degree in geology from UT in 1957. From 1957 to 1966 he worked as a geologist for Marathon Oil Company in Midland. In 1966 he began working for Pennzoil Company in Midland as senior exploration geologist, and has continued working for Pennzoil since that time in Lafayette briefly, and then in Houston since 1971. At present he is president and chief executive of Pennzoil Exploration and Production Company, group vice president of oil and gas operations and director of Pennzoil Company, chairman of Pennzoil Far East Company, and director of Proven Properties, Inc.

Mr. Holland holds membership in the American Association of Petroleum Geologists, West Texas Geological Society, Houston Geophysical Society, Houston Geological Society, Permian Basin SEPM, and chairs the General Committee of Exploration Affairs for the American Petroleum Institute.

In addition to other civic responsibilities, Mr. Holland is a member of the Visiting Committee for the Geology Department at Abilene Christian University, a member of the Board of Development at Hardin-Simmons University, and in 1983 was named a Distinguished Alumnus at Hardin Simmons.

Mr. Frank W. McBee and Mr. James R. Moffett resigned their positions as Council members during the past year. Mr. McBee, who has served since 1982, found it necessary to resign due to increased business commitments. Mr. Moffett resigned to begin serving on the University Development Board, which directs fundraising for a broad range of projects at UT Austin. He had served on the Council since 1972, and with his wife established the Robert E. Boyer Centennial Professorship in Geology in 1972.

Three Council members, Mr. Fred L. Oliver, Dr. Philip Oxley, and Mr. D. Gale Reese declined renomination to another term on the Council and completed their service on August 31, 1986. Mr. Reese had served since 1983. Mr. Oliver joined the Council in 1977 and last year with his wife established the Fred L. and Frances J. Oliver Lectureship in Texas Hydrology and Water Resources. These five gentlemen deserve recognition and thanks for their roles in promoting the Department through their service on the Advisory Council.

The Council lost a valued and respected member in March with the death of Mr. Jack Larsen. Mr. Larsen served as chairman of the Council from 1983 to 1985, and provided the initial endowment for the Mesa Petroleum Company Fund in Sedimentary Geology. He had served on the Council since 1972. He will be greatly missed.

Geology Foundation Advisory Council

Effective September, 1986

Chairman

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

Vice Chairman

Mr. William E. Gipson, President, Pogo Producing Company, P. O. Box 2054, Houston, TX 77001

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- Mr. Charles W. Alcorn, Jr.**, President, Alcorn Development Company, P. O. Box 3187, Victoria, TX 77901
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- Dr. David S. Birsa**, Manager, Geology Division, Chevron Oil Field Research Company, P. O. Box 446, La Habra, CA 90631
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- Mr. L. Decker Dawson**, President, Dawson Geophysical Company, 208 S. Marienfeld, Midland, TX 79701
- Dr. Rodger E. Denison**, Mobil Research and Development Corporation, Box 819047, Dallas, TX 75381
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- Mr. James H. Frasher**, President, Teledyne Exploration Company, P. O. Box 36269, Houston, TX 77036
- Dr. Joseph N. Gittelman**, General Manager, Geophysics, Shell Oil Company, P. O. Box 2463, Houston, TX 77001
- Mr. George M. Harwell**, Executive Vice President, Bayleaf, Ltd., 1100 Milam Building, Suite 3135, Houston, TX 77002
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- Mr. David S. "Scotty" Holland**, President, Pennzoil Exploraton and Production Company, P. O. Box 2967, Houston, TX 77252
- Mr. Charles J. Hooper**, Independent, 3355 W. Alabama, Suite 840, Houston, TX 77098
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- Mr. J. Donald Langston**, Consultant, 78-7039 Kam III Road #113, Kailua-Kona, HI 96740
- Mr. Howard R. Lowe**, Consultant, 2784 Pondilla Way West, Coupeville, WA 98239
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- Mr. Scott Petty, Jr.**, 711 Navarro Street, Suite 235, San Antonio, TX 78205
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- Mr. Don B. Sheffield**, President, Geosource, Inc., 2700 Post Oak Blvd., Suite 2000, Houston, TX 77056
- Mr. Robert K. Steer**, Executive Vice President and Director, Esso Exploration Inc., P. O. Box 146, Houston, TX 77001
- Mr. William T. Stokes**, Vice President and General Manager, King Ranch Oil & Gas, Inc., 211 N. Ervay Building, Suite 1008, Dallas, TX 75201
- Mr. Arthur J. Wessely**, Chairman of the Board & Chief Executive Officer, Wessely Energy Corporation, 2001 Bryan Tower, Dallas, TX 75201
- Mr. Phillip E. Wyche**, Consultant, P.O. Box 161300, Austin, TX 78716

HONORARY LIFE MEMBERS

- Dr. Thomas D. Barrow**, Consultant, 1010 Lamar, Suite 400, Houston, TX 77002
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- Mr. J. Ben Carsey**, 1061 San Jacinto Building, 911 Walker Street, Houston, TX 77001
- Dr. Samuel P. Ellison, Jr.**, 5948 Highland Hills Drive, Austin, TX 78731
- Mr. John L. Loftis, Jr.**, 11919 Broken Bough, Houston, TX 77024
- Mr. O. Scott Petty**, 711 Navarro Street, Suite 235, San Antonio, TX 78205
- 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

Geology Foundation Endowment Accounts (June 1, 1985–May 31, 1986)

<i>Fund</i>	<i>Goal</i>	<i>Current Endowment</i>	<i>Fund</i>	<i>Goal</i>	<i>Current Endowment</i>
Edwin Allday Centennial Chair in Subsurface Geology Income supplements salary of recipient	\$500,000	\$500,000	Dave P. Carlton Centennial Professorship in Geology Income supplements salary of recipient	Unspec.	\$420,740
Edwin Allday Lectureship in Geological Sciences To provide for guest lecturers in geological sciences	\$200,000	\$ 23,543	Dave P. Carlton Centennial Professorship in Geophysics Income supplements salary of recipient	Unspec.	\$436,694
Alternative Energy Research and Development Fund For study of energy sources other than petroleum	Unspec.	\$ 94,000	Dorothy Ogden Carsey Memorial Scholarship Fund Geology scholarships, any level; special consideration to micropaleontology students	Unspec.	\$ 76,820
E. M. Barron Trust For support of the Barron Mineral Collection	Unspec.	\$ 99,877	S. E. Clabaugh Fund in Hard-Rock Geology To support research in hard-rock geology	Unspec.	\$ 21,577
Leonidas T. Barrow Centennial Chair in Mineral Resources Development of program of excellence in mineral resources; income supplements salary of recipient	Unspec.	\$778,901	W. Kenley Clark Memorial Endowed Presidential Scholarship Geology scholarships, any level	Unspec.	\$ 42,300
Bloomer Fund for Motivated Students Financial aid for students not qualified for scholarships	Unspec.	\$ 41,477	Robert H. Cuyler Endowed Presidential Scholarship Undergraduate (upper division) and graduate scholarships	Unspec.	\$ 42,239
Leslie Bowling Professorship To attract persons from industry and government for short-term appointments on the faculty	\$100,000	\$100,000	Morgan J. Davis Centennial Professorship in Petroleum Geology Income supplements salary of recipient	Unspec.	\$506,535
Wayne F. Bowman Endowed Presidential Scholarship Unrestricted geology scholarships any level	Unspec.	\$ 90,494	Ronald K. DeFord Field Scholarship Fund Field studies for graduate students	Unspec.	\$133,814
Don R. and Patricia Kidd Boyd Lectureship in Petroleum Exploration To provide for guest lecturers in petroleum exploration	\$ 40,000	\$ 40,000	Alexander Deussen Professorship in Energy Resources Development of program of excellence in energy resources; income supplements salary of recipient	Unspec.	\$113,255
Robert E. Boyer Centennial Professorship in Geology Income supplements salary of recipient	Unspec.	\$117,061*	Michael Bruce Duchin Centennial Memorial Endowed Presidential Scholarship Scholarship for Master's candidate with preference toward general geology	Unspec.	\$ 27,300
Brahman Energy Scholarship Senior field course scholarships	Unspec.	\$ 15,095	Elf Aquitaine Petroleum Faculty Fellowship in Geological Sciences Income supplements salary of junior faculty member	\$100,000	\$ 62,500
Fred M. Bullard Professorship Excellence in teaching, income supplements salary of recipient	\$100,000	\$100,000	John E. "Brick" Elliott Centennial Professorship in Geological Sciences Income supplements salary of recipient	Unspec.	\$238,541
Hal H. Bybee Memorial Fund Student field support, or support of students researching geologic issues related to public policy	Unspec.	\$ 15,830	Samuel P. Ellison Jr. Endowment Fund For Department <i>Newsletter</i> and support of faculty-alumni functions	\$100,000	\$ 62,491
Hal P. Bybee Memorial Fund Faculty use—research, travel, study, etc.	\$500,000	\$336,223	Energy and Mineral Resources Fund Support of programs and students in energy and mineral resources	\$100,000	\$ 23,176
L. W. Callender Memorial Fund Departmental use, unrestricted	Unspec.	\$ 50,200	William Stamps Farish Chair in Geology	Unspec.	\$325,500

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

<i>Fund</i>	<i>Goal</i>	<i>Current Endowment</i>	<i>Fund</i>	<i>Goal</i>	<i>Current Endowment</i>
Income supplements salary of recipient			F. Earl Ingerson Graduate Research Assistance Fund in Geochemistry	Unspec.	\$ 10,275
Peter T. Flawn Centennial Chair in Geology	Unspec.	\$520,269	Research assistance to graduate students in geochemistry		
Income supplements salary of recipient			John A. and Katherine G. Jackson Centennial Teaching Fellowship in Geological Sciences	Unspec.	\$107,000
Geology Foundation Advisory Council Centennial Teaching Fellowship in Geological Sciences	\$ 50,000	\$ 50,000	Income supplements salary of junior faculty member		
Income supplements salary of junior faculty member			Carolyn G. and G. Moses Knebel Teaching Awards	Unspec.	\$ 71,399
Geology Foundation Advisory Council Special Maintenance Fund	\$250,000	\$ 31,640	Annual Distinguished Teacher Award, Innovative Improvement and New Course Development		
Maintain teaching and research equipment			Clara Jones Langston Centennial Lectureship in Vertebrate Paleontology	\$ 20,000	\$ 20,000
Geology Foundation Advisory Council Special Operations Fund	\$250,000	\$ 18,500	To provide for guest lecturers in vertebrate paleontology		
Purchase teaching and research equipment			Wann & Marietta Langston Research Fund in Vertebrate Paleontology	Unspec.	\$ 85,664
Getty Oil Company Centennial Chair in Geological Sciences	Unspec.	\$532,000	Faculty research in vertebrate paleontology		
Income supplements salary of recipient			Howard R. Lowe Vertebrate Paleontology Endowment	Unspec.	\$ 24,363
Miss Effie Graves Memorial Fund	Unspec.	\$ 23,033	Support of student field work in vertebrate paleontology		
Department needs (faculty support, student aid, special equipment, etc.)			J. Hoover Mackin Memorial Scholarship Fund	\$ 20,000	19,115
Guy E. Green Endowed Presidential Scholarship	Unspec.	\$ 27,178	Graduate geology scholarships		
Geology scholarships, any level			John H. & Lujza P. McCammon Endowed Scholarships	Unspec.	\$ 10,250
J. Nalle Gregory Professorship in Sedimentary Geology	Unspec.	\$107,786	Upper-division undergraduate scholarships		
Development of program of excellence in sedimentary geology; income supplements salary of recipient			Mr. & Mrs. L. F. McCollum Endowed Scholarships	Unspec.	\$ 12,574
Gulf Oil Foundation Centennial Professorship in Geology	\$200,000	\$200,000	Geology scholarships, any level		
Income supplements salary of recipient			Mesa Petroleum Co. Fund in Sedimentary Geology	Unspec.	\$109,318
George S. Heyer Memorial Fund	Unspec.	\$ 84,570	Support of the Department program in sedimentary geology		
Any purpose of the Foundation			Frank W. Michaux Scholarship Fund	Unspec.	\$ 10,266
William C. Hogg Memorial Scholarship Fund			Geology scholarships, any level		
General Information:			Carroll C. Miller Endowed Presidential Scholarship	Unspec.	\$ 29,673
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.			Geology scholarships to students pursuing careers in energy industries; preference to students from south Texas		
Hogg-Cullinan	Unspec.	\$ 39,320	Fred L. and Frances J. Oliver Lectureship in Texas Hydrology & Water Resources	\$ 25,000	\$ 25,000
Scholarship in petroleum or field geology in honor of Joseph S. Cullinan			To provide for guest lecturers in water resources		
Hogg-Sharp	Unspec.	\$ 39,320	Judd H. Oualline Endowment Fund	Unspec.	\$ 11,001
Scholarship in petroleum or field geology in honor of Walter Benona Sharp			For special needs of the Department		
Houston Oil & Minerals Corporation Faculty Excellence Awards	\$ 40,000	\$ 40,000	Judd H. and Cynthia S. Oualline Centennial Lectureship in Geological Sciences	Unspec.	\$ 24,000
In recognition of outstanding service and special contributions to the teaching and research programs					

<i>Fund</i>	<i>Goal</i>	<i>Current Endowment</i>	<i>Fund</i>	<i>Goal</i>	<i>Current Endowment</i>
To provide for guest lecturers in geological sciences			Tobin International Geological Map Collection	\$100,000	\$ 69,752
Judd H. and Cynthia S. Oualline Centennial Lectureship in Petroleum Geology	Unspec.	\$ 26,658	For purchase of maps and photos, storage and viewing facilities for these items		
To provide for guest lecturers in petroleum geology			Udden Memorial Scholarship Fund	Unspec.	\$ 10,115
Ed Owen-George Coates Fund	Unspec.	\$103,522	Geology scholarships at any level		
Publication of geologic research related to Texas by faculty and graduate students			Various Donors (General)	Unspec.	\$ 17,500
Bill R. Payne Centennial Teaching Fellowship in Geological Sciences	Unspec.	\$ 57,900	Unrestricted funds for furtherance of basic geological education, research, graduate study, field work, travel, Foundation operation, salaries, etc.		
Income supplements salary of junior faculty			Joseph C. Walter, Jr. & Elizabeth C. Walter Geology Library Fund	Unspec.	\$514,115
Joyce Bowman Payne Centennial Teaching Fellowship in Geological Sciences	Unspec.	\$ 52,900	Acquisition of books, maps and other library materials		
Income supplements salary of junior faculty			Albert W. & Alice M. Weeks Centennial Professorship in Geological Sciences	Unspec.	\$130,321
Pennzoil and Pogo Producing Companies — William E. Gipson Scholarships	Unspec.	\$ 50,000	Income supplements salary of recipient		
Scholarships for UT graduates seeking Masters degrees at UT			E. A. Wendlandt Fund	Unspec.	\$ 6,720*
O. Scott Petty Geophysical Fund	Unspec.	\$118,613	Purchase of books and journals in German or English translations		
Development of program of excellence in geophysics			Arno P. (Dutch) Wendler Professional Development Fund	Unspec.	\$ 75,180
Wallace E. Pratt Professorship in Geophysics	Unspec.	\$134,379	Support of graduate student presentations at professional meetings		
Development of program of excellence in geophysics; income supplements salary of recipient			Francis L. Whitney Endowed Presidential Scholarship	Unspec.	\$ 39,354
Wilton E. Scott Centennial Professorship	Unspec.	\$208,000	Geology scholarships, any level, paleontology and stratigraphy preferred		
Income supplements salary of recipient			Francis L. Whitney Memorial Book Fund	Unspec.	\$ 11,116
The Shell Companies Foundation Distinguished Chair in Geophysics	\$750,000	\$450,000	Purchase of paleontological books for library		
Income supplements salary of recipient			John A. Wilson Professorship in Vertebrate Paleontology	Unspec.	\$101,257
The Shell Companies Foundation Centennial Chair in Geophysics	\$750,000	\$450,000	Development of program of excellence in vertebrate paleontology; income supplements salary of recipient		
Income supplements salary of recipient			Charles E. Yager Undergraduate Field Scholarship Fund	Unspec.	\$ 42,013
Frederick W. Simonds Endowed Presidential Scholarship	Unspec.	\$ 25,380	Support of students taking Geology 660		
Scholarships to undergraduate (upper division) and graduate students			Mr. & Mrs. Charles E. Yager Professorships	Unspec.	\$339,501
William T. Stokes Centennial Teaching Fellowship in Geological Sciences	\$100,000	\$100,000	Three professorships in any discipline for faculty who participate in field instruction		
Income supplements salary of junior faculty					
David S. Thayer Memorial Scholarship Fund	Unspec.	\$ 26,160			
Senior field course scholarships					

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

GIFTS TO THE GEOLOGY FOUNDATION

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

CONTRIBUTORS TO THE GEOLOGY FOUNDATION June 1, 1985-May 31, 1986

Patrick L. Abbott	Mrs. Marybelle H. Clark	Willard R. Green	Robert L. Layden
Floyd J. Adcock	Wilbur R. Cleaves	Redge L. Greenberg	David H. Lehman
Charles W. Alcorn, Jr.	Russell E. Clemons	Robbie Gries	Max Levin
Eugene J. Amaral	Robert Cobb	Thomas W. Grimshaw	Paul S. Lewis
Eugene L. Ames, Jr.	George B. Coffin	Richard H. Groshong, Jr.	Sandra J. Lindquist
Ben M. Anderson	Jack Colle	Robert O. Gross	Eugene Lipstate
D. Russell Andress	H. Grady Collier, Jr.	Paul R. Gucwa	Mr. & Mrs. Allen C. Lockin
Gerald L. Atkinson	Jerry H. Collins	Mrs. James A. Haertlein	Kenneth J. Loep
Byron A. Bachschmid	Michael D. Conger	Ward M. Haggard, Jr.	John L. Loftis, Jr.
Milo M. Backus	Carroll E. Cook	W. R. Hakes	Susan A. Longacre
Donna Faye Balin	John D. Cooper	James J. Halbouty	Mark W. Longman
Dr. & Mrs. Virgil E. Barnes	Duncan Corbett	Bryan M. Hale	Dr. & Mrs. Ernest L. Lundelius, Jr.
Dr. Thomas D. Barrow	Weyman W. Crawford	E. J. Hale	Reynaldo E. Macedo
Mr. & Mrs. Jerald H. Bartley	Robert W. Crebbs	R. B. Hale	George W. Marshall, Jr.
Gerald S. Barton	Stephen P. Cumella	W. Douglas Hall	Sabin W. Marshall
W. H. Bauer	Larry J. Darnall	Weldon W. Hammond, Jr.	Dr. & Mrs. James L. Martin
Mr. & Mrs. Fred H. Becker	Ross M. Davis	Richard E. Hart	Mr. & Mrs. David F. Martineau
Mary E. S. Bell	Mrs. Veta M. Davis	Robert S. Harvill	Louis M. Martinez
R. E. Bennett	L. Decker Dawson	Hugh Hay-Roe	Dr. & Mrs. Lon McCarley
Allen J. Bertagne	William D. DeMis	Janice L. Hill	Jeremiah F. McCarthy
Earl H. Bescher, Jr.	Rodger E. Denison	Sumner B. Hixon	Leonard F. McCollum
William D. Blankenship	Mr. & Mrs. Gilbert J. DePaul	Bill D. Holland	Duncan McConnell
Dr. and Mrs. Richard R. Bloomer	William H. Devine	Richard T. Holt	Dr. & Mrs. Fred McDowell
Daniel P. Bodner	George A. Donnelly, Jr.	Lawrence E. Hoover	Edward McFarlan, Jr.
Murry E. Body	Matthew L. Doolen	Richard T. Houser	J. W. McKenny
Louis F. Bonner	Gene C. Doty	Betty G. Houston	W. N. McKinney, Jr.
John F. Bookout, Jr.	William E. Dougherty	Douglas J. Howard	John F. McKnight
Clinton Booth	James D. Doyle	Richard S. Howell	Asa D. McRae
Douglas L. Bostwick	Gerald K. Ebanks	Don F. Hugus, Jr.	John A. Means
Don R. Boyd	John E. Edwards	F. Earl Ingerson	Peter K. Megaw
Philip Braithwaite	Gus K. Eifler, Jr.	Carl B. Irwin	Laurence S. Melzer
William A. Bramlette	Arthur B. Elliott, Jr.	J. R. Jackson, Jr.	Mario L. Messina
Herbert L. Brewer	Mrs. Ruth P. Elliott	John A. Jackson	Harry A. Miller, Jr.
Thomas E. Bridge	Dr. & Mrs. Samuel P. Ellison, Jr.	Joseph G. Jacquot	Wayne D. Miller
D. Kenneth Brook	Dr. & Mrs. A. Gordon Everett	O. L. James, Jr.	Mrs. Herbert G. Mills
Wallace E. Brunson	Mr. & Mrs. Rizer Everett	Bridget Lois Jensen	Richard A. Mills
Leonard C. Bryant	Laura B. Evins	Kenneth R. Johnson	Robert J. Moffatt
Ray A. Burke	Robert H. Fakunding	Charles R. Jones	Sidney S. Moran
T. J. Burnett, Jr.	Dorman N. Farmer	Luther G. Jones	Ann Moorhead
Arthur Busbey & Janet Nilsson	John J. Farrelly	Edward A. Karper	Mrs. E. G. Moorhead
Ronald A. Butterworth	Irma Jo Feibelman	Kenneth F. Keller	Duane E. Moredock
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Mr. & Mrs. Robert W. Bybee	Mrs. Dorothy Y. Fisher	Howard W. Kiatta	David W. Morrow
Leon G. Byerley, Jr.	Dr. & Mrs. William L. Fisher	Hon. Joe M. Kilgore	Mrs. Thad M. Neal
Mr. & Mrs. Warren J. Cage, Jr.	James H. Frasher	Mrs. G. M. Knebel	G. Allan Nelson
Frank K. Cahoon	W. D. Frazell	Jan H. Knox	David C. Noe
Bruce Calder, Jr.	Mark D. Froneberger	Leo W. Konz	Mr. & Mrs. Ronald W. Nordquist
Dean L. Callender	Robert B. Gaines	Jennifer L. Kraft	Susan Stone Norman
Mr. & Mrs. Rodney J. Camp	Iacopo Gambini	Pamela J. Kramer	Harold D. Orr
W. H. Cardwell	Thurman Geddie	A. E. Kurie	Jeffrey D. Ottmann
Capt. Paul S. Cariker	William E. Gipson	Dave Krause	Judd H. Oualine
J. Ben Carsey	Grover Gonzales	Ted B. Lacauff, Jr.	Gaston H. Parrish
Mr. & Mrs. Jack C. Cartwright	Richard E. Grant	Harry S. Lain	Ben M. Patterson
Dwight E. Cassell	Volker C. Grasso	Dr. & Mrs. Lynton S. Land	William Y. Penn
Charles A. Caughey	C. Devearle Gray	J. Donald Langston	George W. Petering
Guy A. Chamot	Robert W. Grayson	Dr. & Mrs. Wann Langston, Jr.	Benjamin J. Petrussek
Walter Chatham, Jr.	Mrs. Guy E. Green	Steward A. Laufer	O. Scott Petty

Scott Petty, Jr.
 Donald F. Pierini
 William A. Poe
 Morris E. Pollock
 John W. Preston
 Vicki I. Price
 A. Leo Pugh, Jr.
 Wilbur A. Ratcliff
 M. Allen Reagan, Jr.
 Chris Reed
 W. F. Reynolds
 Alexander W. Ritchie
 Jess P. Roach
 Clem H. Roberts
 James E. Rogers
 Lowell T. Rogers
 W. Wayne Roye
 Mrs. Maurice E. Ruby, Jr.
 Jack S. Sanders
 O. E. Schellhase
 Judith A. Schiebout
 John T. Schulenberg
 F. A. Seamans
 Clyde R. Seewald
 Don B. Sheffield
 Robert S. Singer
 Harry H. Sisson
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 A. Richard Smith
 Bruce D. Smith
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 Bill E. St. John
 Herbert M. Stanley, Jr.
 Robert K. Steer
 Sheree L. Stewart
 William T. Stokes
 Michael Stowbridge

Robert E. Stowers
 Leonard J. Svajda
 James B. Tartt
 C. B. Thames, Jr.
 Bert C. Timm
 Donald H. Torgerson
 Everette J. Travis
 Delos R. Tucker
 Edd R. Turner
 Leroy J. Tydlaska
 Robert D. Valerius
 R. B. Vickers, Jr.
 Bryan Wagner
 Joseph C. Walter, III
 B. H. Ward, Jr.
 Katherine Hubby Weiner
 Arthur J. Wessely
 James A. Wheeler
 Steven L. White
 Peter N. Wiggins, III
 Roscoe C. Wilber, Jr.
 John B. Williams
 Jerry Bob Willman
 Homer C. Wilson
 James W. Wilson
 Dr. & Mrs. John A. Wilson
 Melissa Winans
 Kristina I. Witt
 Robert L. Wood, Jr.
 James T. Woodman
 Arnold M. Woods
 Mary C. Woods
 Raymond D. Woods
 Kenneth E. Woodyard
 Charles F. Word
 William E. Workman
 Mr. & Mrs. Charles J. Worrel
 John B. Wright
 Phillip E. Wyche
 Charles E. Yager, III
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 H. E. Yates
 Susan W. Young
 William C. Young, III
 Robert Zinn

Industrial and Society Contributors to the Foundation

June 1, 1985-May 31, 1986

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 Mobil Foundation, Inc.
 Olin Corp. Charitable Trust
 Pennzoil Company
 Phillips Petroleum Fdn., Inc.
 Pogo Producing Company
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 Schlumberger-Doll Research
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 Sun Refining & Marketing Co.
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 Union Pacific Foundation
 Zinn Petroleum Company

Donors of Books and Special Items to the Department of Geological Sciences

June 1, 1985-May 31, 1986



Dr. John M. Sharp (left), Associate Chairman, accepts gift from Mr. Michael Wagley of Sun Oil.

Amoco, Inc.
 Rolland B. Bartholomew
 Robert E. Boyer
 Fred M. Bullard
 Ian Dalziel
 Ronald K. DeFord
 Laura Elliot
 Samuel P. Ellison, Jr.
 William L. Fisher
 Peter T. Flawn
 Robert L. Folk
 Wesley Gish Estate
 Tom Grimshaw
 Myrtle Ingerson
 International Oil Scouts

Edward C. Jonas
 Anutoly Kaplan
 Herman Loeb
 Earle F. McBride
 Holland C. McCarver
 William R. Muehlberger
 Mario S. Riglos
 Amos Salvador
 John M. Sharp, Jr.
 Roman Smoluchowski
 J. H. Tatsch Estate
 Louita Dodson Wilson
 Clark Wilson
 Charles Woodruff, Jr.
 Keith Young

New Endowments In The Geology Foundation

In October, 1985, Mr. William E. Gipson of Houston established an endowment in the Geology Foundation designated as the Pennzoil and Pogo Producing Companies — William E. Gipson Scholarships. It is Mr. Gipson's intent that income from the endowment be used to provide scholarships for University of Texas at Austin graduates who are continuing at UT to receive Masters degrees. It is further specified that such students should be United States citizens. Current endowment of the scholarship fund is \$50,000. The first scholarship will be awarded in fall, 1986.

Two new endowments relating to equipment needs of the Department were approved by the Advisory Council in November, 1985. The Geology Foundation Advisory Council Special Maintenance Fund was established to provide maintenance funds and technical support for existing equipment in the Department. The University's budget allotment for these needs covers only a small percentage of the repairs that are actually needed. It is the Advisory Council's hope that this fund will grow to an endowment of \$250,000 in order to provide adequate income for maintenance. The Geology Foundation Advisory Council Special Operations Fund also has a goal of \$250,000, designated to provide income for the purchase of new equipment. The addition of these two funds is an attempt to provide a consistent means of funding these needs without being totally dependent on the University's budget. The endowment in the Maintenance Fund now stands at \$31,000; the Operations Fund endowment is now \$18,500.

Last year the W. Kenley Clark Memorial Fund was established by Mr. Clark's wife, Marybelle, with the purpose undesignated. At Mrs. Clark's request, the Board of Regents on April 11, 1986 approved designating the fund the W. Kenley Clark Memorial Endowed Presidential Scholarship. Endowed Presidential Scholarships provide awards of \$2,000 per year for the recipients. Current balance in the Clark endowment is \$42,300.

Including these newly-established funds, the total endowment in the Geology Foundation, including pledged gifts, is almost \$11.5 million.

Student News

GRADUATE DEGREES IN GEOLOGY

Conferred by

THE UNIVERSITY OF TEXAS AT AUSTIN
1985-86

Master of Arts, December 1985 (16)

Barron, Barbara R.

B.S., Geology, 1983, The University of Texas at Austin
Diffusion Rate Estimates from Pyroxene, Garnet Ridge, Arizona.
Supervisor: Douglas Smith and Clark R. Wilson
Committee Member: William D. Carlson

Bodner, Daniel P.

A.B., Geology, 1982, Vassar College
Heat Variations Caused by Groundwater Flow in Growth Faults of the South Texas Gulf Coast Basin.
Supervisor: John M. Sharp
Committee Members: William Galloway, Lynton S. Land

Carballo, Jose D.

B.S., Chemistry, 1976, University of Florida
Holocene Dolomitization of Supratidal Sediments, Sugarloaf Key, Florida.
Supervisor: Lynton S. Land
Committee Members: Alan J. Scott, Robert L. Folk

Carter, Karen E.

B.A., Geology, 1982, Albion College
Deformation and Metamorphism of the Red Mountain Area, Llano County, Texas.
Supervisor: Sharon Mosher
Committee Members: William D. Carlson, William R. Muehlberger

Conlon, Sean T.

B.A., Geology, 1980, Dartmouth College
Volcanic Geology of the General Trias-Tutuaca Area, Chihuahua, Mexico.
Supervisor: Fred W. McDowell
Committee Members: Douglas Smith, Christopher Henry

Davis, Scott D.

B.S., Geology, 1982, University of Michigan-Ann Arbor
Investigations of Natural and Induced Seismicity in

- the Texas Panhandle.
Supervisor: Wayne D. Pennington
Committee Members: Mark Cloos, Clifford Frohlich
- Elliott, Laura A.**
B.S., Geology, 1982, Oklahoma State University
Depositional Facies and Stratigraphy of the Lower
San Andres Formation (Permian), Southeast
New Mexico.
Supervisor: John K. Warren
Committee Members: Robert L. Folk, Don Bebout
- Fly, Sterling Harper III**
B.S., Geology, 1980, The University of Texas at
Austin
Shallow Marine Environments of the Laborcita For-
mation (Wolfcampian), Sacramento Mountains,
New Mexico.
Supervisor: Alan J. Scott
Committee Members: John K. Warren, Don Bebout
- Gabay, Steven H.**
B.A., Geology, 1979, Queens College-CUNY
Velocity Refinement Within a Generalized Inverse
Framework
Supervisor: Clark R. Wilson
Committee Members: Milo M. Backus, Wayne D.
Pennington
- Guzman-Speziale, Marco**
Ingeniero Geofisico, 1980, Universidad Nacional
Autonoma de Mexico
The Triple Junction of the North America, Cocos,
and Caribbean Plates, Seismicity and Tectonics.
Supervisor: Toshimatsu Matsumoto
Committee Members: Clark R. Wilson, Wayne D.
Pennington
- Herrington, Karen L.**
B.S., Geology, 1982, The University of Texas at
Austin
Metamorphism, Deformation Alteration of an Eclo-
gite Block from the Franciscan Subduction Com-
plex, Central California.
Supervisor: Mark Cloos
Committee Members: John C. Maxwell, William D.
Carlson
- Hinnov, Linda A.**
B.A., Music, 1979, Princeton University
Effects of Water Storage on the Earth's Wobble.
Supervisor: Clark R. Wilson
Committee Members: Yosio Nakamura, Clifford A.
Frohlich
- Hurry, Debra H.**
B.S., Geology, 1977, College of William and Mary
Genetic Stratigraphy of the Basal Cliff House Sand-

stone (Cretaceous), West Central San Juan
Basin, New Mexico.
Supervisor: Alan J. Scott
Committee Members: Earle F. McBride, William
Galloway

- McCartney, Merle G.**
B.A., Geology, 1981, University of Colorado-Boulder
Depositional Facies, Petrology, and Diagenesis of
the Frontier Formation, Whiskey Buttes Gas
Unit, Wyoming.
Supervisor: Earle F. McBride
Committee Members: Robert L. Folk, John K.
Warren
- McCrary, Megan M.**
B.S., Geology, 1982, Stanford University
Depositional History and Petrography of the
Todilto Formation (Jurassic), New Mexico and
Colorado.
Supervisor: John K. Warren
Committee Members: Gary Kocurek, Robert L. Folk
- Smith, Nathaniel G.**
B.A., Geology, 1977, The University of Texas at
Austin
Stratigraphy, Petrography and Geochemistry of
Upper Devonian Black Shales, Gataga District,
North Central British Columbia.
Supervisor: Robert L. Folk
Committee Members: J. Richard Kyle, Edward C.
Jonas

Doctor of Philosophy, December 1985 (4)

- Anderson, James H.**
B.S., Geology, 1976, Louisiana State University
Depositional Facies and Carbonate Diagenesis of
the Downslope Reefs in the Nisku Formation (U.
Devonian) of Central Alberta.
Supervisor: Lynton S. Land
Committee Members: Robert L. Folk, J. Richard
Kyle, Judy Land, Robert G. Loucks
- Burbach, George VanNess**
B.A., Geology, 1979, Hope College
M.A., Geology, 1983, The University of Texas at
Austin
Intermediate and Deep Seismicity and Lateral
Structure of Subducted Lithosphere in the
Circum-Pacific Region.
Supervisor: Wayne Pennington
Committee Members: Clifford A. Frohlich, John G.
Sclater, Charles R. Denham, Richard L. Carlson
- Burks, Rachel J.**
B.S., Earth Sciences, 1978, University of New

Orleans
M.A., Geology, 1981, The University of Texas at Austin
Incremental and Finite Strains within Ductile Shear Zones, Narragansett Basin, Rhode Island.
Supervisor: Sharon Mosher
Committee Members: William D. Carlson, Douglas Smith, Martin Jackson, Carol Simpson

Dreier, RaNaye B.

B.A., Geology, 1978, Carleton College
The Blackstone Series: Evidence for Precambrian Avalonian and Permian Alleghanian Tectonism in Southeastern New England.
Supervisor: Sharon Mosher
Committee Members: John C. Maxwell, William D. Carlson, Christopher Scotese, Dennis S. Wood

Master of Arts, May 1986 (11)**Cast, Martha E.**

B.S., Geology, 1981, The University of Texas at Austin
Petrography and Provenance of the Eocene Simsboro Formation, Central Texas.
Supervisor: Robert L. Folk
Committee Members: Earle F. McBride, Edward C. Jonas

Dauidsen, Erik K.

B.S., Geology, 1983, The University of Texas at Austin
Petrology and Structure of Greenstone Blocks Encased in Franciscan Mud-Matrix Melange near San Simeon, California.
Supervisor: Mark Cloos
Committee Members: William D. Carlson, Daniel S. Barker

Finn, Christopher J.

B.S., Geology, 1983, University of Miami
Estimation of Three Dimensional Dip and Curvature from Reflection Seismic Data.
Supervisor: Milo M. Backus
Committee Members: Clark R. Wilson, Charles R. Denham

Harris, Susan F.

B.A., Geology, 1982, Guilford College
Kinetics of Diffusion-Controlled Reactions in Garnet Amphibolite, Llano County, Texas.
Supervisor: William D. Carlson
Committee Members: Sharon Mosher, Daniel S. Barker

Havholm, Karen G.

B.A., Geology, 1976, College of Wooster

Dynamics of a Modern Dune, Algodones Dune Field, California.
Supervisor: Gary Kocurek
Committee Members: John K. Warren, Norman K. Wagner

Kim, Woo Han

B.S., Geology, 1973, Seoul National University
Gaussian Beam Synthetic Body-Wave Seismograms Using IPGT Method with Optimum Beamwidths.
Supervisors: Wayne D. Pennington and Jan D. Garmany
Committee Member: Clark R. Wilson

Mashburn, Leslie E.

B.B.A., 1977, University of North Carolina-Chapel Hill
Mineralized Veins in the Franciscan Melange and Cambria Slab Trench-Slope Basin, near San Simeon, California: A Fluid Inclusion Analysis with Implications for Dewatering Subducting and Accreted Sediments.
Supervisor: Mark Cloos
Committee Members: John M. Sharp, Lynton S. Land

Renkin, Miriam L.

B.A., Geology, 1983, University of North Carolina-Chapel Hill
Age, Depth, and Residual Depth Anomalies in the North Pacific: Implications for Thermal Models of the Lithosphere and Upper Mantle.
Supervisor: John G. Sclater
Committee Members: Clark R. Wilson, Christopher Scotese

Todd, Charles P.

B.A., Geology, 1981, Rice University
Isolation, Display and Interpretation of Offset Dependent Phenomena in Seismic Reflection Data Using Offset to Depth (ODR) Range Partial Stacking.
Supervisor: Milo M. Backus
Committee Members: Clark R. Wilson, Charles R. Denham

Wong, Henry K.

B.S., Geology, 1981, University of California-Los Angeles
Petrology and Provenance of the Eocene Wilcox Group, North-East Texas.
Supervisor: Robert L. Folk
Committee Members: Earle F. McBride, William L. Fisher

Worrel, Elizabeth A.

B.S., Geology, 1982, Trinity University
Paleoecology and Biostratigraphy of Wells 1, 2, and

4, Vermilion Area, Block 265, Offshore Louisiana.
Supervisors: Samuel P. Ellison and James T. Sprinkle
Committee Member: Keith Young

Doctor of Philosophy, May 1986 (1)

Nielson, Jamie A.

B.S., Geology, 1981, University of Minnesota
The Surface Processes, Internal Structure, and Net
Deposits of Eolian Dunes and Sand Sheets.
Supervisor: Gary Kocurek
Committee Members: Robert L. Folk, Alan J. Scott,
Norman Wagner, Ralph Hunter

UNDERGRADUATE SCHOLARSHIPS

ARCO Exploration Company Scholarships

Susan Atkinson	Summer 1986
Debra Bozeman	Summer 1986
Gilbert Gabaldon	Summer 1986
Sipriano Gonzales, Jr.	Summer 1986
Vickie Nelson	Summer 1986
Carlos Salinas	Summer 1986

Wayne F. Bowman Endowed Presidential Scholarships

Monica M. Farek	1985-86
Bradley G. Henderson	1985-86

Brahman Energy Scholarships

Marc Haws	Summer 1986
Eric Jerome	Summer 1986
Richard Neely	Summer 1986
Brad Wilkinson	Summer 1986

Wayne Z. Burkhead Memorial Scholarships

Eric Boardman	1985-86
John Eaton	Fall 1985
Vincent Kluth	Fall 1985
Randall Larkin	1985-86
Michael Maler	Fall 1985

Chevron Scholarships

Sean Boerner	Fall 1985
Bradley Henderson	Summer 1986
Carla Matherne	Summer 1986
Michael McLeod	Summer 1986
J. C. Ray	Fall 1985
Margaret Townsley	Summer 1986
Thomas Williams	Summer 1986

Conoco Scholarships

Susan Atkinson	1985-86
Gilbert Gabaldon	1985-86
Carlos Salinas	1985-86

Robert H. Cuyler Endowed Presidential Scholarships

Gregory L. Barta	1985-86
Ellis S. Belfer	1985-86

Diamond Shamrock Scholarships

Paul Carpenter	Summer 1986
Scott Simmons	Summer 1986

Enserch Scholarships

Mark Carpenter	Spring 1986
Scott Kelley	Spring 1986
Terry Moody	Spring 1986
Scott Simmons	Spring 1986

Exxon Education Foundation Scholarships

Sipriano Gonzales	1985-86
Vickie Nelson	1985-86

Fund for Motivated Students

Denise Apperson	Fall 1985
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Guy E. Green Endowed Presidential Scholarship

Thomas A. Williams	1985-86
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John H. and Luzja P. McCammon Scholarships

Vincent Kluth	Spring 1986
Michael McLeod	1985-86
Michael Vecchio	Spring 1986

L. F. McCollum Scholarship

Francis Zimmer	Spring 1986
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Frank W. Michaux Scholarship

Eric Schroeder	Spring 1986
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Carroll C. Miller Endowed Presidential Scholarship

Brad I. Wilkinson	1985-86
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Mobil Oil Scholarships

Namho Baag	1985-86
Debra Bozeman	1985-86
Rosa Linda Carrillo	Fall 1985
Cynthia Fong	1985-86

Pennzoil Scholarships

Kathleen Brown	Fall 1985
John Kleinschmidt	Fall 1985
Scott Simmons	Fall 1985
Ted Stout	Fall 1985
David Tolces	Fall 1985
Michael Vecchio	Fall 1985

F. W. Simonds Endowed Presidential Scholarship

Margaret K. Townsley 1985-86

Sun Oil Company Scholarships

Renee Daulong 1985-86
 Nancy Eilbacher 1985-86
 Marcia Henize Summer 1986
 Laurel Lacher 1985-86
 Teena Moore Fall 1985
 Jennifer Thompson Spring 1986

David S. Thayer Memorial Scholarships

Leigh Dvorak Summer 1986
 Gary Foster Summer 1986
 James Null Summer 1986
 Terrell Rippstein Summer 1986

Udden Memorial Scholarships

John Kleinschmidt Spring 1986
 James Null Spring 1986
 Jaime Ondrusek 1985-86

Union Pacific Foundation Scholarships

Nancy Eilbacher Summer 1986
 Marcia Henize Summer 1986
 Terry Moody Summer 1986
 Richard Neely Summer 1986
 Jennifer Thompson Summer 1986

Various Donors Scholarships

Denise Apperson Spring 1986
 Monica Farek Summer 1986

F. L. Whitney Endowed Presidential Scholarship

William A. Weaver 1985-86

Charles E. Yager Undergraduate Field Scholarships

David Baukus Summer 1986
 Casey Cornett Summer 1986
 John Howard Summer 1986
 Scott Kelley Summer 1986
 John Kleinschmidt Summer 1986
 Robert T. Parks Summer 1986
 R. Barry Reiss Summer 1986
 Thomas Swartz Summer 1986

GRADUATE SCHOLARSHIPS**American Chemical Society**

Dan P. Bodner Fall 1985



Presentation of Amoco geophysics fellowship check. Left to right: W. L. Fisher, Chairman, John Calwell from Amoco, John Dunbar, fellowship recipient, Dunbar's co-supervisors, Dale Sawyer and John Sclater.

Amoco Foundation Inc. Fellowships

Trevor Dumitru Spring 1986
 John A. Dunbar Fall 1985
 David A. Wark 1985-86

Arco Exploration Co. Fellowships

Karen Carter Summer 1986
 Janet Coleman Summer 1986
 George Coltrin Spring 1986
 William V. Conover Spring 1986
 Scott Davis 1985-86
 Christopher J. Finn 1985-86
 Bruce Gates Summer 1986
 Joseph G. Greenberg 1985-86
 Richard E. Paige Spring 1986

Dave P. Carlton Professorship Grants

Steven M. Cather Spring 1986
 Karen Carter Spring 1986
 Steve Johansen Spring 1986

Dorothy Ogden Carsey Memorial Scholarship

Janet L. Bader 1985-86

Chevron Fellowships

Paul E. Blanchard Fall 1985
 Donald E. Miser Fall 1985

Conoco Fellowship

Amy Wilkerson Spring 1986

Ronald K. DeFord Field Scholarships

Gerardo Aguirre	Summer 1986
Arten J. Avakian	Fall 1985
Jonathan G. Blount	Fall 1985
Karen Carter	Summer 1986
Mark Gordon	Summer 1986
Franz K. Hiebert	Fall 1985
Matthew Parsley	Summer 1986
Jeff Pittman	Summer 1986
Shawn Reynolds	Summer 1986
Robert Roback	Summer 1986
Michael R. Rosen	Fall 1985
Michael Sweet	Summer 1986
Paulo Vasconcellos	Summer 1986
David Wark	Summer 1986
Philip Weatherill	Summer 1986

Alexander Deussen Professorship in Energy Resources Grant

Julie Kupecz	Summer 1986
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Michael B. Duchin Memorial Endowed Presidential Scholarship

Stephen Robertson	1985-86
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John E. "Brick" Elliott Professorship Grants

Nancy J. Banta	Fall 1985
Shawn Reynolds	Spring 1986
Deborah Travis	Summer 1986

Exxon USA Foundation Scholarships

Scott H. Adamek	Fall 1985
Erik Davidsen	Summer 1986
John A. Dunbar	Fall 1985
Jennifer Glasford	Spring 1986
Marco Guzman	Summer 1986
Karen Havholm	Summer 1986
Ronald A. Johns	Fall 1985
Woohan Kim	Fall 1985
Karen J. Meador	Fall 1985
Miriam L. Renkin	Fall 1985
Michael L. Sweet	Fall 1985
Peter R. Tauvers	Fall 1985
Anne H. Walton	Fall 1985
David Wark	Summer 1986
James W. Westgate	Fall 1985

William Stamps Farish Chair Grants

Katharine A. Coley	Spring 1986
Richard Erdlac	Spring 1986
Peter R. Tauvers	Fall 1985

Geology Foundation Advisory Council Centennial Teaching Fellowship Grant

Karen Carter	Summer 1986
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Hogg/Cullinan Scholarships

Jamie Nielson	Fall 1985
Timothy J. Jackson	Fall 1985

Hogg/Sharp Scholarship

James Vanderhill	Fall 1985
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Houston Geological Society Scholarship

Jeffrey N. Rubin	1985-86
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Lloyd Grant for Hydrology Research

Robert S. Morton	1985-86
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Howard R. Lowe Vertebrate Paleontology Scholarships

James A. Perkins	Summer 1986
Jeffrey G. Pittman	Summer 1986
Robert S. Rosenberg	Summer 1986
Anthony Runkel	Summer 1986
Sleshi Tebedge	Spring 1986

O. Scott Petty Geophysical Fund Scholarship

Marco Guzman	1985-86
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Phillips Petroleum Co. Fellowship

Mark R. Farr	1985-86
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Pogo Producing Company Scholarship

Erik Davidsen	Fall 1985
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Shell Oil Foundation Scholarships

Nancy Barber	1985-86
Jeffrey D. Beckman	Summer 1986
Paul Blanchard	Summer 1986
Andrew Czebieniak	1985-86
George Laguros	1985-86
Jurgen Oberst	Summer 1986
Jeff Pittman	Summer 1986
Brian Reck	Summer 1986
Paul Weimer	Summer 1986
James Westgate	Summer 1986
John G. Worrall	Fall 1985

Tenneco Oil Company Scholarships

Paul Blanchard	Spring 1986
Harris S. Cander	1985-86
Julianne P. Mahler	Fall 1985
James K. Miller	1985-86
Charles Stone	Spring 1986
John G. Worrall	1985-86

Texaco Inc. Fellowships

Julie Kupecz	Spring 1986
Gwendolyn Macpherson	1985-86



Wendy Macpherson (left) is congratulated by Dr. Susan Longacre (center) of Texaco Inc. and W. L. Fisher upon receipt of the Texaco Fellowship for 1985-86.

Texas Oil & Gas Corp. Leadership Award

Mark Chandler 1985-86

Union Oil Co. of California Scholarship

Alfred I. Garcia Fall 1985

Arno P. (Dutch) Wendler Professional Development Awards

Paul E. Blanchard	Fall 1985
David A. Bristol	Fall 1985
Karen E. Carter	Fall 1985
Katharine L. Coley	Summer 1986
Jeffrey D. Corrigan	Fall 1985
Erik K. Davidsen	Fall 1985
Trevor A. Dumitru	Summer 1986
Richard J. Erdlac	Summer 1986
Carol A. Evans	Fall 1985
Karen L. Herrington	Fall 1985
Donald E. Miser	Fall 1985
Michael Rosen	Summer 1986
Jeffrey N. Rubin	Fall 1985
Peter R. Tauvers	Summer 1986
Keith Thompson	Summer 1986
James B. Vanderhill	Fall 1985

Second Yager Professorship Grants

Kathy Bland	Summer 1986
Charles Stone	Summer 1986

RESEARCH ASSISTANTS

Academic Year 1985-86

Project SEER

Reginald Beardsley
Nikolaos Bernitsas
Steven Dobbs
Alfredo I. Garcia
Mark J. Graebner
Daniel C. Huston
Jeffrey A. Sauve
Arthur V. Seay
James L. Simmons
Tracy J. Stark
Robert D. Walters
Becky L. Wood

Departmental

Jonathan G. Blount
Mark A. Chandler
Erik K. Davidsen
Timothy N. Diggs
Trevor A. Dumitru
James F. Durrett
Julie B. Knight
John W. Kuehne
Lawrence E. Mack
Leslie E. Mashburn
Deborah S. Pfeiffer
Peter R. Tauvers
Sleshi Tebedge
Jay Vogt
John C. Wilson

Bureau of Economic Geology

Nancy J. Banta
Harris S. Cander
William F. Dingus
Mary Anne Duncan
Henry E. Eby
Richard J. Erdlac
Bruce C. Gates
John C. Gholston
Patricia L. Granger
Gay N. Gutierrez
Susan F. Harris
Karen L. Herrington
Susan Ide
Julie A. Kupecz
Peter K. Krynine
Julianne P. Mahler
Javier Meneses-Rocha
James K. Miller
Richard Paige
Rodulfo C. Prieto
Joseph R. Ramage
James R. Reistroffer
Jeffrey N. Rubin
Allan R. Standen
Charles D. Stone

Institute for Geophysics

George V. Burbach
William Corso
Joseph O. Ebeniro
Lisa M. Gahagan
Steve A. Kautz
Woo Han Kim
Catherine L. Mayes
Karen J. Meador
P. Jurgen Oberst
Miriam L. Renkin
David B. Rosenthal
Malcolm I. Ross
Jiri Savrda
Mark D. Shorey
Paul Weimer
Hugh V. Winkler

TEACHING ASSISTANTS

Scott H. Adamek
 Nancy J. Banta
 Scott D. Birmingham
 Kathryn L. Bland
 Jonathan G. Blount
 David A. Bristol
 Karen E. Carter
 Gianni O. Chieruzzi
 Katharine L. Coley
 Donald G. Coltrin
 William B. Copeland
 Jeffrey D. Corrigan
 Timothy N. Diggs
 Trevor A. Dumitru
 James F. Durrett
 Joseph O. Ebeniro
 Henry E. Eby
 Mark E. Erwin
 Carol A. Evans
 Barbara A. Gaskell
 Steven J. Germiot
 Mark B. Gordon
 Franz K. Hiebert
 Susan Ide
 Ronald A. Johns
 Kirt A. Kempter
 John I. LaFave
 Thomas B. Layman
 James B. Lippert

Julianne P. Mahler
 Jerry A. McNeish
 James K. Miller
 Donald E. Miser
 Robert S. Morton
 Daniel J. Neuberger
 James A. Perkins
 Jeffrey G. Pittman
 James D. Prikryl
 Shawn A. Reynolds
 Michael R. Rosen
 Robert S. Rosenberg
 Sally A. Rothwell
 Anthony C. Runkel
 Gerald S. Shaw
 Alice W. Spencer
 Keith B. Sullivan
 Michael L. Sweet
 Heidi M. Tomich
 Richard S. Toomey
 Deborah S. Travis
 Bruce N. Turbeville
 Paulo M. Vasconcelos
 Timothy G. Walter
 Philip M. Weatherill
 James W. Westgate
 Amy Wilkerson
 Susan N. Witebsky
 John G. Worrall

award of \$1,000 as winner of the petrography competition.

L. Scott Kelley is the undergraduate recipient of the Petrography Award. He received the BS degree in August, 1986, after completing the senior field course in June. He is interested in paleontology and worked as student assistant for several semesters. He has been the recipient of the L. F. McCollum, Enserch, and Charles E. Yager departmental scholarships while at UT. A cash award of \$250 was granted to Scott for the Undergraduate Petrography Award.

Outstanding Student Award, Houston Geological Society: Ms. Denise Apperson, a senior from Fort Worth, was presented the Houston Geological Society's Outstanding Student Award at a special presentation in Houston in May. Originally a biology major, Denise discovered geophysics and will graduate with a BS in geophysics in 1987. In addition to working as a laboratory assistant in the Department, she tutors students in calculus and physics. During 1985-86 she was the recipient of an award from the Bloomer Fund for Motivated Students. She has been awarded the Guy E. Green Endowed Presidential Scholarship for 1986-87, and plans to enter graduate school the next year. The Outstanding Student Award carried a grant of \$150.

STUDENT AWARDS

Petrography Awards: Undergraduate and graduate students are eligible to participate each year in competition for the Petrography Awards which were established in the early 1970's by an anonymous ex-student. A written examination is taken by each student to determine who is most knowledgeable. The graduate winner is Bill Agee, whose home is in El Paso. Bill is a Master's candidate supervised by Richard Kyle. His thesis topic is "Genetic Modeling of Metalliferous Fluids for Metallic Sulfide Deposits in Salt Dome Cap Rocks, Gulf Coast." Bill has spent two semesters as a teaching assistant in the Department, and worked for one semester as a research assistant. He received a cash



Denise Apperson

In Memoriam

Robert L. Begeman (BA '42), a prominent geologist in San Antonio, died of cancer on Saturday, October 5, 1986. He was 65.

Mr. Begeman graduated from the University of Texas in 1942 with a bachelor's degree in petroleum geology. He was an active member of many geological societies, among them the South Texas Geological Society, the Gulf Coast Association of Geological Societies, and the American Association of Petroleum Geologists. In September of 1985, he was named "Outstanding Geologist" by the South Texas Geological Society.

Mr. Begeman started his career in the oil industry with Stanolind Oil and Gas Company. He went on to become chief geologist with Rock Hill Oil Company, and later vice-president of exploration with Tesoro Petroleum Corporation in San Antonio. He later resigned from Tesoro to pursue a career as an independent geologist.

At the time of his death, he was president of the Louis Company in San Antonio, an oil and gas company he formed in 1977.

Mr. Begeman is survived by his wife, Patricia, a daughter and son-in-law, Mary Pat and Michael Bolner of San Antonio, a son, Michael, of Austin, a sister, Jean Begeman Bergmark, of Atlanta, and two grandchildren, Jeffrey and Emily Bolner, of San Antonio.

Thomas E. Brown (BS '56, MA '58, PhD '63) was born September 15, 1932 and died January 11, 1986 in Fort Worth, after a five-year battle with a brain tumor.

Tom served as a Marine Infantryman in Korea before his university studies, which began at Arlington State (now University of Texas at Arlington) and continued at the University of Texas where he received the B.S. (1956), M.A. (1958) and Ph.D. (1963) degrees in geology. In 1958, prior to returning for the Ph.D. degree, Tom joined American Overseas Petroleum in Turkey. Tom was employed by the Bureau of Economic Geology while working toward the Ph.D. degree. In 1963 and 1964 he was with the U.S.G.S. in Denver as geochemist-mineralogist and rejoined American Overseas in 1964,

where he worked in Spain and Libya. From 1966 to 1970 Tom was Associate Professor of Geology at Stephen F. Austin State University, working summers for the Bureau as a photogeologist. He resumed overseas exploration in 1970 with Ashland Exploration Company, supervising operations in Libya and Turkey while developing comprehensive regional geologic studies, primarily of north and west Africa, Indonesia, Australia, and the Persian Gulf. In 1973 he became manager of international exploration for Moncrief Oil Interests, Fort Worth, concentrating his efforts mainly in north and west Africa and Indonesia. With Moncrief he also originated drilling prospects in the Powder River Basin, southwest Texas, and the Fort Worth basin. His exploration talents led to major field discoveries in the northern Sinai, the Gulf of Suez, and to numerous southwest Texas and Fort Worth basin gas field discoveries. In 1977 he began a consulting practice in Fort Worth and in 1979 formed Banter Exploration. From 1978 through 1980 Tom was Adjunct Professor of Geology at the University of Texas at Arlington, where he taught graduate courses in petroleum geology.

Tom's versatility as a geologist is reflected in his publications, which include papers in geochemistry and mineralogy, guidebooks for the Bureau of Economic Geology, geological maps for the Atlas Project published by the Bureau, petroleum development reports for the Bulletin of the AAPG and the book, *Layman's Guide to Oil and Gas Investments*.

Those who knew Tom will remember him for his special humor, his adventurous spirit, keen intellect, his drive for knowledge, and for his integrity in all things. We will miss the quiet competence of this rare friend.

Tom is survived by his wife, Jean, and children, Cindy, Thomas, Titus, Elizabeth, Adam, and Sarah.

by Burke Burkart

Jesse L. Brundrett (BA '53, MA '55) of Tyler, Texas, died on October 17, 1985.

Mr. Brundrett was a certified petroleum geologist who began his career in 1954 with Humble Oil and Refining Company (now Exxon Company USA) in the Tyler office, and retired in February, 1985, as Geologic

Advisor, having served over 30 years in the company.

Mr. Brundrett was a member of the American Association of Petroleum Geologists, the East Texas Geological Society, and the University of Texas Ex-Student's Association. He was also a member of the Executive Board, East Texas Area Council, Boy Scouts of America, and he held the Silver Beaver.

Mr. Brundrett is survived by his wife, Ina, of Tyler, a daughter and son-in-law, Lyn and Larry Maddox of Austin; a son and daughter-in-law, Lee and Joannie Brundrett of Dallas; a brother, R. A. Brundrett of Skidmore, Texas; a sister, Lois Holmes of Woodsboro, Texas; and two grandsons, Lawrence Maddox, Jr. and Kenneth Maddox of Austin.



Berte R. Haigh (Photo from Randolph Rubin Studio Collection, courtesy of Permian Basin Petroleum Museum, Midland, Texas.)

John Leyson Dellinger, Jr. (att. '50-51) of The Woodlands, Texas, died at his home in April 1986, after a short illness.

Mr. Dellinger was born in St. Paul, Minnesota, in 1925. After completing his bachelor's degree requirements at Dartmouth College, he continued his post-graduate work at the University of Texas. He was a veteran of World War II, and served with distinction as a forward observer in the 254th Forward Field Artillery of the U.S. 9th Army. Following the Battle of the Bulge, Mr. Dellinger's artillery unit made the first wartime crossing of the Rhine River at Remagen since the Napoleonic wars.

Mr. Dellinger was a geologist with Chevron Company for 25 years. He spent most of that time in New Orleans, where, in addition to other community service, he worked as a member of the school board for the improvement of the schools of Jefferson Parrish. At the time of his death, he was an independent geologist in Houston. Mr. Dellinger was a member of the Episcopal Church, Theta Chi fraternity, Society of Professional Well Log Analysts, and American Association of Petroleum Geologists. He was also an avid sailor, craftsman and reader.

Mr. Dellinger is survived by his wife, Virginia, of The Woodlands; his mother, Mrs. J. L. Dellinger; his sister, Rosemary Dellinger Garner and husband, William, all of Austin; and his six children, Dr. Vivian Dellinger McWilliams and husband, Joe, of Loganview, Georgia; Nancy Dellinger Spence and husband, Brian, of Littleton, Colorado; Patricia Dellinger Roberts and husband, Sidney, Mr. John L. Dellinger, III, and wife, Vicki, Mr. Raymond Dellinger and Mr. James Dellinger, all of New Orleans, Louisiana; four grandchildren; and two stepchildren.

Berte Rolph Haigh, a veteran geologist who played a major role in the development of University Lands in the Permian Basin for more than 50 years, died February 24, 1986, in Midland, Texas. He was 96. He was survived by his wife, Caroline.

Berte R. Haigh was born in Los Angeles, California, on January 15, 1890; the son of John Ralph Haigh. That year, Wyoming and Idaho joined the Union; the population of the United States was 62,000,000; and Benjamin Harrison was president.

He moved in and out of Los Angeles two or three times, staying there long enough to acquire a sister on July 18, 1894.

Berte was orphaned at a young age; his father died in 1898, and his mother in 1899. Berte continued to live with his grandparents on a farm in Buena Park, California, until 1902. He completed grammar school there while learning many things about farming, such as cow milking and hay cutting.

From 1902 to 1908 Berte lived with relatives in Elsinore, California, where, in his own words, he was all around chore-boy. He also worked as an electrician's helper, as a garage assistant, and peddled papers. When the great fire and earthquake devastated San Francisco, Berte had his best days as newsboy hawking extras. During the formative years of his youth, he had time to attend high school for only five months.

Berte returned to Los Angeles in 1908 and stayed until 1921, working in automotive repair and operations while specializing in carburetor expert maintenance.

During those years he also drove racing cars!!

Berte served in the Infantry in the California National Guard from 1910 to 1916, and in the Coast Artillery in 1916 and 1917. He was called to active duty on the Mexican border in Nogales, Arizona, and Calexico, California, after the famous Mexican outlaw, Pancho Villa, made his attack on Columbus, New Mexico.

His unit was federalized in 1917 during World War I and Berte was transferred to France. He was in the front lines in the Meuse-Argonne Offensive, September 25-29, 1918, where he received a bad dose of phosgene gas. He was sent home as an invalid, and was discharged on June 12, 1919. (The doctors gave him 10 years to live.) Not heeding the opinion of those all-knowing medical experts, he lived to serve in the Home Guard in Midland during World War II, and then some.

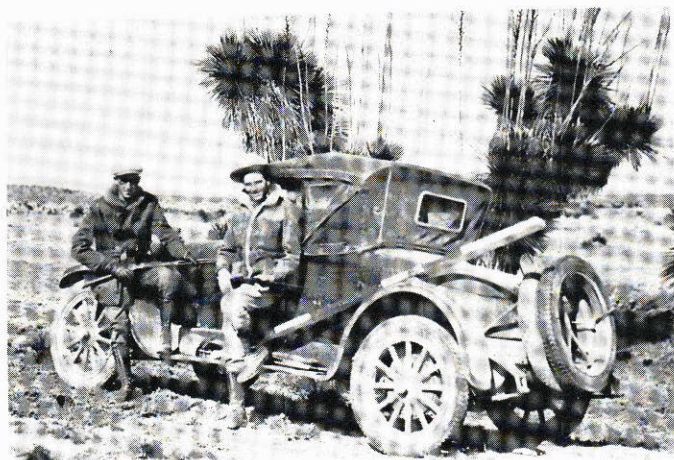
In October 1921, Berte enrolled in the Texas School of Mines in El Paso, Texas, now known as The University of Texas at El Paso, under a Government Rehabilitation Program.

In spite of having a total of five months of high school, he graduated in 1925, with a degree in extractive metallurgy and a minor in geology.

Most of you readers have seen the big M on the west side of Mount Franklin in El Paso. Berte was there, slopping the whitewash on the original M.

After graduation Berte spent one year as a metallurgical engineer at Virginia Mines in Sierra County, New Mexico. Since the company never met a payroll, Berte gave notice and returned to El Paso.

He was about to accept an offer from Potosi Mining Company for employment in Chihuahua City, Mexico, when he was saved by a counter offer from Dixie Oil Company for a position in San Angelo, Texas. The pay



Berte R. Haigh (left) and Gentry Kidd on the Miller Brothers' ranch in Culberson County, Texas in 1926. (Photo from Berte R. Haigh Collection, courtesy of The Permian Basin Petroleum Museum, Midland, Texas.)

was \$150.00 per month.

Mr. Haigh was a pioneer. He was a good rifle shot and carried arms a great deal of the time when doing field work in the 1920s and 1930s. (See photograph.) The guns were not for hunting. After all, when he arrived in El Paso, Pancho Villa had dared cross the border five years earlier, and Mexican outlaws had raided the Brite ranch in northern Presidio County, Texas, on Christmas Day, 1917. In addition, hijackers roamed the mountains along the unpaved roads in Culberson and Hudspeth Counties, between Toyah and Finlay, murdering and robbing all defenseless victims. Law enforcement in the Trans-Pecos rural country was practically non-existent.

In 1928 he went back to his first love, Texas Mines, to become a Professor of Geology and Engineering. Berte enjoyed his extra duty as part-time athletic director and assistant basketball coach almost as much, or more, than his teaching. Upon his death, the flag was flown at half mast at UT El Paso.

In 1934 he transferred to University Lands in San Angelo, Texas.

In 1937 Berte moved the University's field office to Midland, Texas, which was more in the center of the oil activity. He was promoted to Supervising Geologist of University Lands, Geology.

In 1941 Berte found time to marry his sweetheart, Caroline Sauer, in El Paso.

In 1954 after the death of Dr. Hal Bybee, Berte was initially appointed Acting Geologist in Charge of University Lands, and later became Geologist in Charge.

In 1962 Berte was placed on modified service with orders from Dr. Dolly, UT Vice Chancellor, and the Board of Regents of the University of Texas to write the official history of University Lands. Harward Fisher, a UT graduate, was promoted to Geologist in Charge.

Mr. Haigh completed his book prior to his death titled, "Land, Oil and Education." An unbound copy was received by his widow one hour after his death. Fortunately, a few weeks earlier, Berte was able to examine and approve the final version at the printers.

During his employment with University Lands, Berte saw the University Permanent Fund grow from a few million dollars to more than 2.3 billion dollars, mostly from oil and gas lease bonuses and royalties. That endowment was the underpinning which catapulted The University of Texas and Texas A&M University into institutions of the first class. He also saw the number of oil and gas wells on the lands increase to more than 8,600.

He developed or assisted in developing many oil and gas leasing techniques which were later adopted by many public agencies in this country as well as by some foreign nations.

He also pioneered innovations which stimulated exploration on University Lands. He always pushed for the adoption of new techniques for secondary and

tertiary recovery. The Block 31 Devonian field in Crane County, placed under a high pressure miscible flood in 1949, with the full cooperation and encouragement of University Lands, was the first tertiary enhanced recovery project of such a nature in the world. That overwhelming success fully validated Berte's foresight. Atlantic hoped to recover an additional 70 million barrels of oil. That horizon, to date, has produced 194 million barrels and is still going strong.

Berte also pioneered a wide open permit system which allowed geological and geophysical exploration by all interested parties on the lands. (These permits require that all results be certified and furnished to University Lands.) Berte always adhered to his motto: "Play ball with the oil industry and the returns will amount to billions."

In his position, he was always entrusted with a great deal of confidential information, the use of which would have tempted lesser men; but such an act would never have occurred to a man of his integrity.

In the 1950s, Berte framed the first water policy ever adopted by the Regents for University Lands. The plan gave first preference to the water needs of the municipalities in the general area. Under the mandate, he negotiated a multi-million dollar contract with the city of Midland for subsurface water rights in the western portion of the Paul Davis field in Martin County. That policy still continues and has proven beneficial both to several cities in water starved west Texas as well as to the Permanent Fund.

Berte's memberships reveal his widespread and far-ranging interest in science and education. He was a prominent member of the West Texas Geological Society, serving as President in 1938, and designing (with Hilton Kaderli) the Society's logo which is still in use today. He was also chairman of the committee for the American Association of Petroleum Geologists which sponsored a regional meeting in 1939 in El Paso—a first for WTGS. He was chairman of the film historical committee for more than 20 years. He led two field trips and chaired many other field trip committees. The city of El Paso routinely consulted Berte when searching for water.

He was also a member of the AAPG and the American Institute of Professional Geologists, both of whom certified him as a professional geologist. Other organizations in which he participated included the American Geophysical Union, the Geological Society of America, the Society of Petroleum Engineers of the AIME and the SEPM.

Berte was active in the Presbyterian Church. He chose to be cremated because he "did not wish to take any more room on this crowded planet." He was a past president of the Kiwanis Club and continued to serve in various civic functions until his death. He was a member of the Fraternal Lodge III, AF&AM at El Paso and a

member of the Scout Operators Council, which organized Midland's first scout check.

Berte helped charter the Permian Basin Oil Pioneers in Midland. His recordings of the recollections of the old timers, dating from the Santa Rita discovery, will be an invaluable contribution to the history of the Permian Basin.

Berte was personal friends with many of the old-time, internationally-known geologists such as Dr. Beedee, Wallace Pratt, Hal Bybee, Phil King, Russell Lloyd and John Adams. He had a special relationship with all engineering and geology professors at UTEP, especially with John Hills, Doc Quinn, Speedy Nelson, Bill Strain and Cap. Kidd. He cherished his friendships with Ronald DeFord, Sam Ellison, Pete Flawn and Keith Young at the University of Texas. Probably, his best friend was Charlie Vertrees.

Berte also was well acquainted with several Texas governors, most members of the Board of Regents, and all Land Commissioners for the last five decades. He treasured his friendships with numerous major oil company presidents and an inordinate number of independents.

Mr. Haigh accumulated many honors during his lifetime, some of which included: 1923, Wilson Scholarship at Texas School of Mines; 1953, Life Membership in West Texas Geological Society; 1955, Outstanding Ex-Student, University of Texas at El Paso; 1962, Life Membership, Midland Bowling Association (Berte carried a 200 average into his sixties); 1964, Life Membership, American Geophysical Union; 1972, Inducted into the Permian Basin Petroleum Museum Hall of Fame. At his induction, it was said, "He was the right man, at the right place, at the right time." He was an honorary life member of the Santa Rita Club.

Berte was co-founder of the Captain Kidd Memorial Foundation at UTEP, which financed and built the seismic observatory on the University of Texas at El Paso campus. That observatory was one of the first to detect minor earthquakes in the Permian Basin as far east as the Central Basin Platform and the Delaware Basin.

Berte was chief technical advisor to Samuel D. Myers, who authored two outstanding volumes on the "Permian Basin Petroleum Empire of the Southwest," a publication authorized by the George T. Abell Foundation for the benefit of Midland's Petroleum Museum. Berte is given lavish credit in those volumes.

Berte had a tremendous sense of humor and told many stories on himself. He delighted in reminding me that he was 60 years of age when he hired me, yet when I retired, after 30 years, he was still working.

Berte prided himself in his command of English, spelling, mathematics, writing, engineering and geology. He did his own income taxes. The IRS questioned his deductions one year, but pity the poor IRS. Berte

responded with a footlocker full of paperwork, and the IRS capitulated on the very first day!

A favorite. There were only two vehicles registered in Terrell County, Texas, when he was doing surface work in that county. Berte drove past some mesquite bushes and hit one-half of the county's vehicles head on.

When Berte was a motorcycle messenger in France during World War I, he told me that his commanding officer stated: "Berte, the Allies are in more danger than the Germans, when you are on that cycle."

While doing mining work along the Arizona-California border, Berte could save 40 miles each day by straddling the rails and thumping across the Southern Pacific railroad bridge over the Colorado River. Berte said, "We knew the train schedules, and were always prepared to jump in the river."

Due to his early training as a race car driver, Berte drove in a flamboyant manner at times. One day, in Austin, during the heavy traffic hour, it was my honor to cross the eight lanes of Congress Avenue with him against a red light, while pushing another car.

When offered a free cocktail, Berte said his Scotch ancestry obliged him to accept. He called coffee, "Arbuckles." Berte had the spirit and the motivation to overcome his many misfortunes. A sickly childhood, orphaned at an early age, compelled to support himself during his teenage years, denied high school, a World War I invalid, were some setbacks which only served to bring out his stubborn will to survive.

In this day and time, the social groups would have placed the youngster on welfare, but I am convinced that Berte would have also overcome that handicap.

One reason for Berte's long life was his partner and constant companion, Caroline. They shared life's pleasures. They traveled, they knew where to dine, they knew where to get the best accommodations, and they were always ready to try a new restaurant, a change of pace, or a newly organized tour. They would drive 100 miles out of the way to try a new restaurant or a different hotel. The fact that Caroline was struck totally deaf one night, in her sleep, early in their marriage, never dampened their love or enthusiasm for living.

The 1920's and 1930's spawned a remarkable number of world-known petroleum geologists. They found oil. Those men were leaders, not only in their profession, but in civics and politics. Low oil prices only increased their determination to prosper. They watched the price of oil dive to 10 cents per barrel after the Yates field discovery, and afterwards, sweated through 12 lean years of hardship and depression before the price rose to that magic figure of one dollar!!

What about the class of '86?

as Geologist in Charge. Although Berte was not a UT Austin graduate (he attended two terms of summer school in 1924), his close association with Dr. Bybee and others on the faculty prompted many visits to the Geology Building. He was always a close friend of the Department, and attended many UT Austin alumni functions.

Jack E. Hughes (BA '48) died September 6, 1985, in Houston, Texas.

A native of Groesbeck, Texas, and a Houston resident since 1963, Mr. Hughes retired in 1985 as geologist from Enstar Petroleum. He was a member of the Memorial Drive United Methodist Church in Houston, the American Association of Petroleum Geologists, and was a U.S. Army Veteran from World War II, earning the Bronze Star, the World War II Occupation Medal, the Eame Theater Ribbon with five Bronze Stars, the American Theater Ribbon, and the Victory Medal.

He is survived by his wife, Jo, daughters, Carolyn Hughes and Georgia Leigh Hughes, sons, Jack Eugene Hughes, Jr., Charles Gantt Hughes, and wife Kay Lyn Hughes, all of Houston; brother, William C. Hughes of Scotia, New York, grandson, Travis Olson Hughes, Houston; aunts, Mrs. Eva Chiles of Waxahachie, Texas, and Nomah Shelton of Dallas, Texas.

Hedwig T. Kniker (BA '16, MA '17) passed away in San Antonio on October 12, 1985. She worked with Dr. J. A. Udden in paleontological research at the Bureau of Economic Geology until 1920. She was employed by Texaco and Phillips Petroleum until 1931, when she opened her own consulting office in San Antonio, providing paleontological and stratigraphical services for clients exploring for oil and gas in south Texas. From 1945 to 1949 she was employed by the United Geophysical Company and the Corporación de Fomento de la Producción in Punta Arenas, Chile. In 1950 Miss Kniker retired from professional practice. For many years she belonged to the American Association of Petroleum Geologists, Society of Economic Paleontologists and Mineralogists, and the South Texas Geological Society.

Miss Kniker was a loyal supporter of The University of Texas at Austin. In June, 1986, the UT Board of Regents accepted a bequest of \$134,626 from Miss Kniker's estate to expand the existing set of 17 bells in the Main Building Tower on the UT campus to a full carillon of 56 bells. The Board also voted to name the Tower carillon the Kniker Carillon in memory of Miss Kniker.



Jack K. Larsen, Sr.

Jack K. Larsen, Sr. (BA '40) died suddenly in Maui, Hawaii on March 25, 1986. He and his wife, Jean, accompanied by their youngest daughter, Janet Larsen Billeaud, were on the first leg of a business/pleasure trip to Australia and various ports-of-call in the Western Pacific. He was 66 years old. His large family and a virtual army of friends have lost an unusually warm, considerate, lovable and generous friend. Petroleum geology and the petroleum industry have lost a courageous, brilliant, and successful explorer. The University of Texas at Austin has lost a quietly supportive booster. The nation has lost a patriot.

Jack thought of himself as a country boy. He was born in a small, rural Texas town in Harris County on July 8, 1919. He never forgot the tough times of the Depression. At one point he, his older brother, and his father loaded all their possessions into one wagon and moved to the Eagle Lake vicinity of Colorado County. Their route took them down Houston's Main Street. Jack said the wagon trip across Houston only took half an hour. Times do change.

After finishing high school at Eagle Lake, Jack attended the University of Texas at Austin, graduating in geology in 1940. He felt fortunate to land a job as a roustabout at 48¢ an hour. Soon, he got on with a Shell seismic crew at 58¢ an hour. The numbers came from Jack. I accept them as reliable but offer the reader no guarantee; Jack did enjoy telling a good story.

In 1942 Jack enlisted in the Army Air Corps. By November, 1943 he had become a B-17 pilot and was on his way to England. A few months later while on his 13th mission, Jack and his entire flight crew successfully bailed out of their disabled plane. Jack parachuted onto

a snow-covered school yard near Memmingen, Germany only to be captured by a crowd of second graders and a very old man with a very old gun. He spent the next 15 months in a prison camp at Barth, in northwest Germany. Jack returned from the war as a confirmed patriot, but with a great compassion for all people no matter how wrong or misguided they might be. Despite a quick temper he never learned to hate, a rare attribute.

Upon his return to the States, Jack went to Pleasant Hill, Louisiana, to call on the widow of his best friend and fellow pilot, George Rains. Jack and Jean got on well, and in due course, were married and blessed with two sons and two daughters. His wife, Jean Gill Larsen, and children, Lynda Larsen Billeaud, Martin Gill Larsen, Jack Kirby Larsen, Jr., and Janet Larsen Billeaud, all survive him along with seven grandchildren. Jack was truly devoted to his family. He often told me of his family and the joys of their triumphs and the agonies of their tragedies.

Jack returned to Shell Oil Company for an enjoyable and rewarding 23-year career during an exciting period of expanding exploration along the Gulf Coast. He was among the first of several echelons of geologists hired and superbly trained by Shell after World War II. The combination of his determination to succeed and good work habits that demanded the best from himself and others moved Jack to the front rank of a select cadre of several hundred. His honesty and enthusiasm always earned him the respect and trust of his superiors, his subordinates, and his competitors.

In 1964, while serving as Shell's chief of operations in the regional office in New Orleans, Jack resigned to accept a position as exploration manager for Southern Natural Gas Company in Houston. During his five years with Southern Natural, Jack was especially effective in successfully progressing their exploration into the Gulf of Mexico through the discovery of several important fields.

In 1969 Jack left Southern Natural to become exploration vice president for the rapidly growing Mesa Petroleum Company of Amarillo, Texas. Later he would become group vice president and the executive vice president for Mesa. Mesa's T. Boone Pickens describes Jack's tenure as follows: "When Jack Larsen arrived in Amarillo in 1969, Mesa was a small exploration company with assets of less than \$80 million. By the time he retired in 1984, we had grown to become one of the nation's largest independents with assets of \$4 billion. Jack's leadership was of paramount importance to Mesa's growth during those years. He found two major fields in the Gulf of Mexico and made numerous other meaningful discoveries. Jack was an accomplished geologist, a dedicated professional, and a delightful guy to work with."

For Mesa, Jack put together a fine group of

enthusiastic explorers who carried out successful exploration efforts in Canada, the North Sea, Australia, and numerous petroleum provinces in the United States.

After retiring from Mesa in 1984 Jack was busy as a consultant and as a family man. He and Jean spent much of the last two years visiting their children and being visited in Amarillo.

Jack loved The University of Texas at Austin and was very proud when, in 1972, he was appointed to the Geology Foundation of the University. Later, in 1983-85, he would serve as the chairman of the Foundation's Advisory Council. Don Boyd tells how Jack found a way to honor Mesa Petroleum Company and also support and serve the Geology Foundation. "In early 1980, the Board of Regents approved the Mesa Petroleum Company Fund in Sedimentary Geology after receiving a substantial gift from Jack to start the fund . . . After Jack's death the Advisory Council . . . voted unanimously to change the name of the fund he had so carefully nurtured to the Jack K. Larsen-Mesa Petroleum Company Fund in Sedimentary Geology." It is a fitting, closing statement on the life of a fine, dear man who achieved so much while simply trying to do the right thing and to do right by everybody. And he did.

I want to thank Jean Larsen, others in Jack's family and a number of his friends who helped me prepare this memorial.

by Robey H. Clark

Dean Metts (BA '32), a well-known geologist and rancher, died after a brief illness in Three Rivers, Texas, on November 16, 1985. He was 76.

Mr. Metts was a retired geologist and rancher, and spent 20 years with Humble Oil Corporation and the Champlin Corporation.

Mr. Metts was a member of many geological societies, among them Sigma Gamma Epsilon Honorary Geologic Fraternity, American Association of Petroleum Geologists, the American Geological Institute, and the Society of Independent Professional Earth Scientists. He served as president of the South Louisiana Geological Society from 1938 to 1939, and as president of the New Orleans Geological Society from 1944 to 1945.

Mr. Metts was also a member of the Board of Directors of the San Patricio Electric Cooperative, Inc. at the time of his death, a position which he held for 29 years. He was also a member of the Church of the Good Shepherd, Episcopal, in George West, Texas.

During the late 1970's, Mr. Metts became interested in the University of Texas Undergraduate Student Geological Society. He not only provided financial assistance for the group, but also accompanied them occasionally on field trips. In recognition of his assistance, the student group dedicated one of its field trip guidebooks in his honor.

Robert C. Redfield (MA '40) died on January 30, 1986, in Dallas, Texas. At the time of his death, Bob was returning to his home in Austin from Taiwan where he had been working as a consulting geologist.

Most of Bob's career was spent with the U.S. Bureau of Reclamation as a geologist and engineer responsible for the siting, designing, foundation treatment and construction of dams in Texas, Oklahoma, Kansas and New Mexico. Some of the major dams in Texas included the following: Sanford on the Canadian River, Twin Buttes on the Concho, and Choke Canyon on the Nueces. Dams in Oklahoma included McGee Creek, Foss, Fort Cobb, Lake Thunderbird and Lake of the Arbuckles. Bob also worked on the Cheney Dam on the Ninnescah River in Kansas and the Brantley Dam on the Pecos River in karst terrain in New Mexico.

Bob retired from Reclamation in 1975. Never one to be idle, he continued his career in engineering geology as a consultant to Harza Engineering on projects in South America, North Africa and Spain. During the past several years, Bob was retained by SINOTECH Engineering of Taiwan, Republic of China, as a consultant during design and construction of a large concrete dam and hydropower complex in Taipei.

His professional affiliations included the Association of Engineering Geologists, Geological Society of America, Austin Geological Society, New Mexico Geological Society and the Panhandle Geological Society.

Bob's technical expertise and sound practical advice were highly regarded by his colleagues. His knowledge and insight into many things were rare, and fellow workers accompanying him on field excursions could always look forward to his interesting discourse on the physical and geologic aspects of the terrain, fauna and flora, architecture, culture and history.

Bob is survived by his wife, Mary Jean, of Austin, who also graduated from the University of Texas at Austin in 1938 with a Bachelor's degree in geology. He is also survived by a daughter, Sara Ann, of Houston, Texas.

Bob will be missed by his family and friends.

by Rizer Everett and Joe Jackson

Constance Elizabeth Wollman (BS '49, MA '52) of Austin, died of an apparent heart attack on February 27, 1986.

Dr. Wollman received bachelor's and master's degrees in geology and a doctorate in botany, all from The University of Texas. She taught at San Antonio Junior College and later worked at the Texas State Health Department as a virologist. Most recently she worked as a realtor.

Dr. Wollman's many interests included ballet and Persian cat breeding. She spoke four languages fluently, and wrote a book of poems, a novel, and several short stories.

Over many years Dr. Wollman had accumulated and identified a collection of more than 200,000 Precambrian fossils.

We have been advised of the deaths of the following persons, but have no further information:

Cleo Eugene Buck, Jr. (BS '54), deceased April 4, 1986.

Charles Hurst Sample (BA '30), deceased September 23, 1985.

Helen (Patterson) Withers (BA '40), deceased June 25, 1984.

Each year our record of deaths of Department Alumni is incomplete because we are uninformed about the events. We urge each of you who receives confirmed information of this unpleasant news to please relay the details to us.

The Editors

Alumni News



"The Candelaria Kids," August, 1954, Ruidosa Hot Springs. Left to right: Dave Amsbury, Benny Buongiorno, Joe Peterson, Joel Carlisle, Professor R. K. DeFord, Chuck Sewell, Charlie Mankin, and Bill McGrew. Photo submitted by Dave Amsbury.

Patrick L. Abbott (MA '65, PhD '73) is Professor and Chairman of Geological Sciences at San Diego State University in California. "Our enrollment of majors seems to parallel the price of a barrel of oil. Now is the time for us to rebuild our general education program. Am looking forward to the GSA annual meeting in San Antonio this November. See you there."

Edwin V. Acker (BS '56) is a consultant and rancher in Tilden, Texas. "Bev and I will become grandparents again in September. Don't we all love these oil and cattle prices."

Samuel C. Adair, Jr. (BS '56) is a geophysical advisor for Exxon in Houston. "We are really enjoying living at Walden-On-Lake Conroe."

Baxter Adams, Jr. (BS '51, MA '53), self employed, resides in Medina, but still maintains an office in Houston. "I am living on a ranch near Kerrville and prospecting as the economic climate permits."

Elise Donnell Akin (BA '47), vice president of Photakin, Inc., resides in Wichita Falls. "We have two camera stores in Wichita Falls and Arlington. Also have 13 grandchildren and one on the way. We're enthusiastic square dancers and enjoy traveling."

E. Gayle Albrecht (BS '60) is vice president for the Esenjay Petroleum Corporation in Corpus Christi.

Charles W. Alcorn, Jr. (BA '52) and his wife Dorothy live in Victoria, where he has diversified business interests. His latest venture is overseas oil interests in the Philippines and Indonesia.

Elaine Marie Allan (BS '83) is a geologist with Underground Resource Management, Inc., in Austin. Elaine writes, "I have a one-year-old daughter and am looking for too-large-to-swallow non-crumbling, relatively inert rock and mineral samples for her collection."

Fred Altman (BS '42), account executive at Paine Webber, resides in Ft. Lauderdale,

Florida. "Completed my 15th year with the company. I do get back to Houston often to visit family and friends."

Henry J. Alvarez (BS '59) lives in Austin where he is employed by the Texas Water Development Board. "Continuing to assess the groundwater resources of Texas. Congratulations on another fine *Newsletter*."

Jeff Ambrose (MA '82) is a geologist with the Tennessee Gas Pipeline in Houston.

David L. Amsbury (PhD '57), geologist with NASA Johnson Space Center, resides in Houston. "I have looked at 30,000 photos of earth from space, and worked with the shuttle crews to get more and better ones. Ann and I became grandparents of a little girl, Meagan."

Bill Anderson (BA '67, MA '75) is a senior development geologist with Phillips Petroleum Company in Houston.

James H. Anderson (PhD '85) resides in Bellaire, Texas, where he is a research

- specialist at Exxon Production Research, "Debbie and I are expecting another baby in September."
- Payton V. Anderson** (BS '45), a partner in W.D. Anderson and Sons in Midland, is active in oil and gas exploration in most areas except the west coast. He and his wife, Evelyn, have six grandchildren. Their main interests are traveling and golf.
- Arla Jo (Payne) Anderton** (MA '71) is a housewife, mother and student again and lives in Lubbock. She reports "I will be playing a recital from the Peace Tower Carillion at the Houses of Parliament in Ottawa, Canada, in July." She and her husband, Norman, have three sons.
- Douglas Russell Andress** (BS '80) states that, "After working as a senior geophysicist with the Chevron/Gulf Company four and a half years in Houston, New Orleans and San Ramon, California, I took a new job with Sun Oil Company, and am happily and enthusiastically working offshore G.O.M. as a staff geophysicist in Dallas, Texas."
- Carl E. Andrews** (BS '58) lives in Dallas where he is a real estate broker.
- Edgar P. Armstrong** (BS '51) is a district engineer manager for the Internal Revenue Service in Houston.
- James M. Armstrong** (BS '78) is employed by the First Savings Association of East Texas as an accountant. He writes, "I really enjoy living in Houston, and a special hello to all my old friends."
- Tom F. Armstrong** (BA '75), president of Armstrong Energy in Dallas, has recently founded Armstrong Operating Inc., for exploration programs in the Hardeman Basin of north-central Texas.
- Larry M. Asbury** (BS '59, MA '61) is a vice president of international exploration for the Atlantic Richfield Company, in Los Angeles. "While oil prices have certainly put a damper on our business, there is still some action in the international arena." He and his wife, Jackie, like southern California very much.
- Edward R. Atwill** (MA '60) resides in Neskowin, Oregon, where he is the owner of the Neskowin Marketplace. He left the corporate life two years ago to enter the retail business which he finds challenging and rewarding.
- Sara S. Avant-Stanley** (BS '78) is a radio announcer with station WMIS in Natchez, Mississippi.
- Walter B. Ayers, Jr.** (PhD '84), research associate with the University of Texas Bureau of Economic Geology, lives in Austin.
- Byron Bachschmid** (BS '83) is a geologist at J.W. Humbard in Midland. "I am working southeastern New Mexico geology, and Delaware basin to shelf stratigraphy."
- A.C. Baker** (BS '51) is an independent geologist in Wichita Falls.
- Carol Swenumson Baker** (BS '84) is a geophysicist for Exxon in Houston. She married Rodney Baker last year.
- Ernest T. Baker, Jr.** (BS '55) resides in Austin and continues in his position as senior staff geologist with the U.S. Geological Survey.
- W.F. (Bill) Baker** (BS '51) has retired and is now enjoying life on Lake Palestine, golfing, fishing and watching the wildlife.
- Donna Balin** (BS '78) is a graduate student working on her PhD at Cambridge University in England. "I am active in the London Geological Society, and enjoying life in Britain, but still wearing my cowboy boots and holding on to my Texas roots."
- James M. Balogh** (BS '72) reports, "It has been a busy year! Transco bought Exchange Oil and Gas from Georgia Pacific, Char got laid off from her job, and June 11, 1986, our first child, Brigitte Arianna, was born. No telling what else will happen in the next six months!"
- Bill R. Banowsky** (BS '82) lives in Corpus Christi and is a geologist for Exxon.
- Ben Barrow** (BS '51) is recently retired. He is looking forward to the completion of his new home in Utopia, Texas.
- Thomas D. Barrow** (MA '48) resides in Houston. Tom continues as an active participant in the affairs of the Geology Foundation Advisory Council as an Honorary Life Member.
- Robert Bartels** (BS '85) is employed by Raba-Kistner Consultants, Inc., in San Antonio. He has been working as a field geologist in the areas of engineering geology, hydrogeology and environmental aspects.
- Jerald H. (Jerry) Bartley** (BS '37, MA '38), owner of Remote Sensing Exploration U.S.A. in Midland, writes, "I'm too busy to retire, rattling around in all the major basins of U.S.A. via satellite imagery. All the family in good shape, trust you and yours are the same. Looking forward to the class of '37 reunion, and also to receiving the annual *Newsletter*."
- Joe Beard** (BS '42) is a petroleum geologist in Wichita Falls.
- R.E. Beatty, Jr.** (BA '51, BS '53) is an independent geological consultant in San Antonio.
- Ralph J. Beaver** (BS '58) is president of Bevex Corporation in Ft. Worth. He sends his regards to the class of '58.
- Gray E. Bebout** (BS '81, MA '84) resides in Los Angeles where he continues his doctoral studies in the Department of Earth and Space Sciences at UCLA.
- Will Beck** (MA '55), is an exploration manager with BHP Petroleum (Americas), Inc. in Midland. "In January, 1985, Broken Hill Proprietary, the largest company in Australia, purchased all of the stock of Energy Reserves Group, Inc. In July, ERG's name was changed to BHP Petroleum (Americas), Inc. with responsibility for exploration in all of the western hemisphere."
- Fred H.** (BS '83) and **Teresa Harkrader Becker** (BS '83) are working as geophysicists in New Orleans; Fred with Shell Offshore, Inc. and Teresa with Amoco Production Company.
- Lynn S. Beeler** (BS '62), senior programmer with Computer Language Research, Inc., lives in Carrollton, Texas. "I have been busy developing sales tax programs for the personal computers. Enjoy playing soccer with my daughter. My son is attending UT in Austin."
- Walter E. Belt, Jr.** (BS '43) is land manager for Triad Energy Corporation in Houston.
- James I. (Jay) Bennett, CPL** (BS '52) is an independent lease broker in Alief, Texas. "Henrietta and I love to travel. Our children have graduated from college and are now married. We have four grandchildren."
- Charmaine C. Bentley** (BS '77) is a housewife and student and lives in Elk City, Oklahoma. "Thought I would find an area relatively secure, but the 'bust' is shutting down education in Oklahoma."
- Robert L. Bentley** (BS '54) is operations manager for Harvard Energy in Calgary, Alberta, Canada. "Happy to report my daughter graduated from Carleton University with a bachelor's degree in Honor's English."
- Allen J. Bertagne** (MA '80), geophysical consultant with AJB Exploration lives in Lakewood, Colorado. He reports "Have been consulting for the oil industry and spent last summer in the Spanish Pyrenees supervising a seismic crew. Spend half my time in Houston and half in Denver. I love the variety and get a kick out of the pressure. It's almost like working for Milo Backus again!"
- Earl H. Bescher** (BS '40) lives in Kingwood and is enjoying his retirement from Exxon. "I am still active in helping qualified professionals in their career development."
- Morton Bigger, Jr.** (BS '47) lives in Shreveport where he is the president of the Atakora Corporation.
- Don G. Bilbrey** (BS '53, MA '57) has recently retired as manager of the Gulf Oil Corporation in New Orleans. He says "The first six months of retirement have been great and the current plight of the oil industry makes it doubly so. I hope, for the sake of the oil states and industry personnel that this slump doesn't last too long."
- Shelley Billings** (BS '84) is a geologist with Core Laboratories in Dallas.
- Cecelia Binig** (BS '80) set a Sohio-Gulf Coast Division record for the longest consecutive offshore wellsite duties—26 days! "I was supervising the conventional cores, examining samples, and evaluating the E-logging and velocity survey on Pensacola Blk 948. Ed Cazier (MA '84) is attempting to set the new record."
- Gale Bishop** (PhD '71) is a geology professor at Georgia Southern College in Statesboro, Georgia. Gale is "still studying fossil decapods and am active in research projects. The family is super, every one is

healthy and happy."

Norman G. Bishop (BA '57), vice president of Zia Technology, Inc. has moved to Ruidoso, New Mexico, where he will pursue his company's plans to build a mini-steel mill. His favorite pastime activity is driving around the mountains to see the beautiful sights.

William T. Biskamp (BS '54) is manager, minerals for Placid Oil Company in Dallas. "Not much change from last year."

Frank Bissett (BS '82) is a petroleum consultant for Geonomics in Austin, and is currently gathering data for oil and gas evaluations, as well as performing geologic and discounted cash flow analysis for clients in Texas. His thesis is in progress for his MA in energy and mineral resources at UT Austin.

Keith Bjork (BS '84) is a medical student at Texas Tech School of Medicine.

Thomas K. Bjorklund (MA '62) is working for Amoco Production Company as a division exploration geologist in Englewood, Colorado. He is studying Chinese and hopes to visit China soon.

Fredrick S. Blackmar (BS '55) is owner of C-A Enterprises in Corpus Christi. He is "still teaching golf and repairing clubs. Son, Phil, won 'Rookie of the Year' on the PGA tour."

Harvey Blatt (MA '58) resides in Norman and continues in his position as professor of geology at OU. He reports "no significant changes from last year other than age, soon to be geologic in magnitude."

Robert H. Blodgett (PhD candidate) will be an instructor in the Department of Geology at Dickinson College, Carlisle, Pennsylvania, beginning this August.

Jeffrey A. Blohm (BS '76) is in the U.S. Air Force stationed at Davis Monthan AFB, in Tucson.

Dan Blunk (BA '70) is a psychiatrist in El Paso.

Patricia Bobeck (MA '85) resides in Austin and founded Geotechnical Translations in 1985. She has recently completed Chinese scientific and cultural consulting work for Emerald Exploration, Inc. The work involved presenting seminars on "How to do Business in China" and preparing a brochure and other publications in Chinese. Pat's company specializes in the translation of foreign language geologic and geophysical articles, simultaneous interpreting services, and researching and locating scientific information.

David Bocanegra (BS '79) works as a geophysicist for Diamond Shamrock in Dallas.

Murray E. Body (BA '31) is retired as president of Oasis Oil Company of Libya, and enjoying life in Ft. Lauderdale, Florida.

Louis F. Bonner (BS '32) is enjoying retirement in Houston.

John L. Boone (BS '73, MA '79) is employed as a petroleum geologist with Everest Minerals Corporation in Corpus Christi. "I am surviving the current oil and gas slump.

Had fun visiting friends during the WTGS spring field trip in Big Bend."

Clint Booth (MA '56) is president (owner) of Booth Energy Company in Dallas. "Things look bad but we made it through the '60's and we'll make it through this."

Silverio Bosch (BS '74, MA '75) is an independent geologist in Corpus Christi. "Lisa and I enjoyed great trips to observe 'geology' in Antigua and St. Lucia, West Indies."

David W. Bower (BS '85), research consultant with Skipper Lay and Associates, resides in Austin.

Don R. Boyd (BS '58) is president of Gulf Coast Exploration Company in Corpus Christi. He reports "It was great to see so many old friends and to have the opportunity to make new ones during the past year when I was a candidate for president-elect of AAPG. Even though I lost the election, the many new and renewed friendships made it all worthwhile."

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."

Richard G. Bozanich (MA '78) is coordinator, planning and studies, for Amoco Corporation in Chicago. "The winters up here take some getting used to. Doris and I are expecting our third child in September."

David O. Bozeman (BS '51) has retired after working 29 years with Sohio Petroleum Company in Houston. "I took early retirement but I still plan to do some consulting work."

Bryan Bracken (MA '82) is pursuing a PhD degree in the Department of Geology and Geophysics at the University of Utah in Salt Lake City.

Arthur V. Bradshaw (BS '42) is retired and lives in Smithville, Texas. "After 31 years in south Louisiana, I have come to Texas for my next 31 years."

Philip Braithwaite (MA '58) is a manager with Mobil in Dallas. "Changed directions at work from Alaska to deep-water sands and am enjoying the new challenge. Bobbie is working on her thesis for a master's degree."

William A. Bramlette (MA '34) is retired from Exxon and living in Houston.

Tamara Anderson Braun (BS '82) is employed as a geologist with Hillin Oil in Houston.

Tom Breedlove (BS '54) lives in Lafayette, Louisiana, where he is a geologist with Marathon Oil.

Herbert L. Brewer (BS '47), vice president of exploration with Triton Energy in Dallas, is still doing a lot of travelling. "Our operations in France continued to expand and I have been to Paris a number of times this year."

Anne Low Brigham (BS '84), a geologist with Hunt Petroleum Corporation in Dallas, is currently working on the development of fields in northern Louisiana.

Ben M. Brigham (BS '83) resides in Dallas and works as a geophysicist. "Working west

Texas, Texas Panhandle and the North Slope of Alaska.

Mark M. Briggs (BS '85) lives in Austin and works for Maxim Engineers as a soil analyst.

Buddy Brock (BS '56) is a farm and investment manager in Ganado, Texas. "Sorry to see the oil patch going through such hard times. Don't know where I went wrong, but have my third kid going to Texas A&M."

Richmond L. Bronaugh (MA '50) retired from Baylor University Geology Department after teaching 30 years, and is now living in British Columbia, Canada.

Ken Brook (BS '67) is president of Desert Ventures, Inc. in Reno, Nevada. "Despite the so-so price of precious metals, we are having a busy year."

Gerald R. Brooks (BS '58) is a vice president with Marlin Exploration in Shreveport.

C. Douglas Brown (BS '84) is completing work on his master's degree at SMU in Dallas. His summers are spent working for Sun Oil Company in Corpus Christi.

Charles Elmo Brown (BA '76, MA '79) is employed as an exploration geologist with Placid Oil Company in Denver. "For those familiar with our house remodelling adventure, it's finally finished, but Kathy says never again."

Gib Brown (BS '76) continues his work as a consultant in Amarillo. He writes "Jeanette and I have three children now and enjoy living in Amarillo, away from those view-obstructing trees in Austin."

Wallace E. Brunson (BS '42, MA '54) is living in Houston. "Although retired, I keep two offices as an 'independent' and work up deals to give to friends."

J.E. Woody Bryant (BS '43, MA '48) is a consulting geologist in Dallas. He reports "Business is slow so I will spend most of my time working on drilling prospects in south Texas."

Leonard C. Bryant (BS '57) is an independent geologist in Helotes, Texas.

Julius A. Buchanan (BS '41) is retired and lives in Tyler. He writes, "I keep very busy doing volunteer work."

Thais Jeanne Bullard (MA '51) spends her winters on Kona Coast, Hawaii, but her permanent home is in Taos, New Mexico.

Phil Bullock (BS '83) is working for Underground Resource Management in Austin. Phil assisted with the summer, 1986 course, Hydrogeological Field Methods, taught by Jack Sharp.

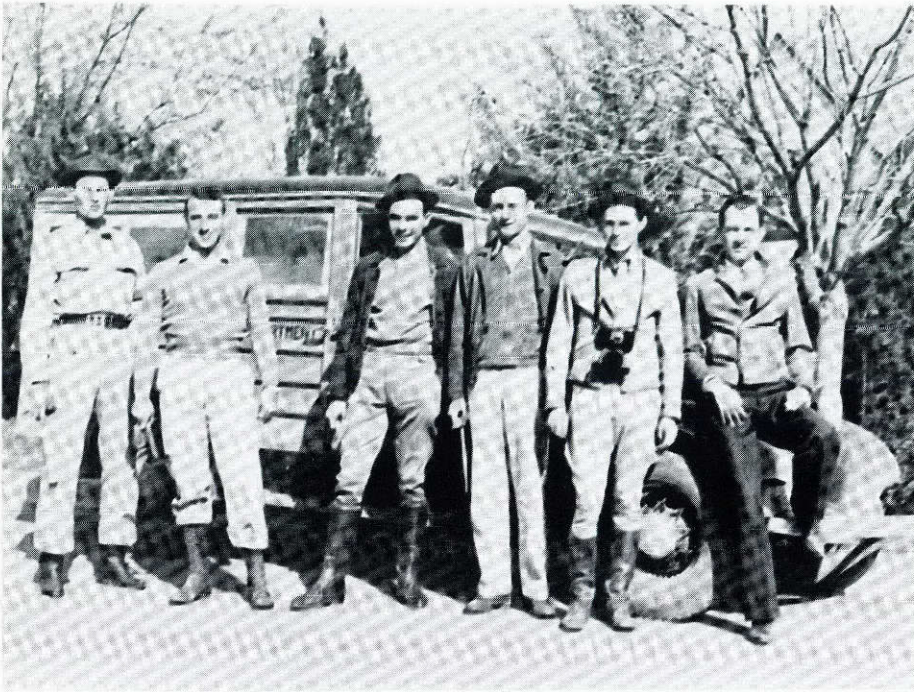
Terrie Buratti (BA '84) works as a research analyst for Southwest Energy Consultants in Austin.

Claude M. Burnett (BS '51) is a consulting geologist in Dallas.

T.J. (Jeff) Burnett, Jr. (BS '48) is the owner of the T.J. Burnett & Son Insurance Company in Houston.

James D. Burke (BS '38) is retired and lives in Corpus Christi.

Arthur Busbey (BS '75, MA '77) and **Janet Busbey Nilsson** (BS '77) live in Ft. Worth



Some students in F. L. Whitney's paleontology class (1935-36) on their way to a fossil hunt. Left to right: William G. McCampbell, Jr., Louis Haring, Jr., Bryan D. Beck, Jr., Lloyd S. Parker, Jerry Bartley, Roscoe Gillian. Photo submitted by W. H. Cardwell.

where Art is an assistant professor of geology at TCU and Janet is continuing graduate work. They send "a hearty hello to y'all in the department. We wish we could get down to visit more often, but we are so busy. Our friends are truly welcome to visit us anytime."

- Ron Butterworth** (MA '70) is an exploration manager for Pennzoil in Houston.
- Robert W. Bybee** (BA '41), president of Bybee International Inc., resides in Houston. He writes, "enjoying golfing, fishing, hunting and retirement from Exxon."
- Gary Lee Byrd** (BS '84) is a roofing contractor in Dallas.
- William M. Byrd** (BA '54, BS '56, MA '58) continues to work with Exxon as a computer applications geologist in Houston.
- Jim Byrne** (PhD '75) is a geological consultant in Houston.
- Warren J. and Susan K. Cage** (BS '50, BA '50) are enjoying their retirement living in the Texas hill country near Boerne. Susan is active in wildflower cataloging, Jack plays golf and they both look forward to the *Newsletter*.
- Frank K. Cahoon** (BS '57) is a director for Colony Energy Corporation in Midland. "Paula and I have a granddaughter."
- Donald G. Campbell** (BS '59) resides in Tulsa and is a senior vice president with Reading & Bates Petroleum Company. "Still searching for reserves and doing weekend ranching in these rough and tough times."
- Donald M. Campbell** (BA '54) is a geophysicist with Inter-American Geodetic Survey in

San Antonio. He does a lot of traveling to South and Central America and would like to hear from friends who live in those areas.

- Luis Canales** (MA '84) is employed with Geo-Tech in Corpus Christi.
- Alvin Candela** (BS '41) lives in Galveston and is semi-retired. He reports, "With the recent mergers and bankruptcies, it seems like only yesterday that domestic oil sold for \$24/30 a barrel. Then the major oil companies went to the Middle East to explore for cheap oil. As of this date \$30/barrel oil is selling for \$10. Is supply and demand the factor or 'economics'? The Arabs will find out in due time."
- J.D. Carballo** (MA '85) resides in Houston and is employed as an exploration geologist with Marathon Oil Company.
- W. Henry Cardwell** (BA '38) does consulting work in Houston and looks forward to the *Newsletter* every year.
- A.T. (Toby) Carleton** (BS '52, MA '53), vice president of Pogo Producing Company in Midland, is getting ready for the next boom.
- Marvin T. Carlsen** (BS '52) resides in Midland where he is a semi-retired geologist-mudlogger. He reports "The downturn in oil-well drilling has left me doing mostly yard and house renovations. Best wishes to the staff, alumni and professors at UT."
- Steve Carlson** (MA '84) employed by Union Oil Company as a geophysicist lives in Houston. "I've just finished a training program in data processing and sweating out the state of the industry. My wife,

Jenny, is a graduate student at the University of Houston."

- Royce P. Carr** (BA '74, BS '76), exploration manager for Hinton Production Company, lives in Mt. Pleasant, Texas. He reports "Our second son was born last October. We are building a new home and enjoying life here."
- Ralph V. Carson, Jr.** (BS '55) is a coordinator of accounting policies for Conoco in Wilmington, Delaware. "Sure will be interesting to see where oil prices are when this *Newsletter* is published."
- Robert D. Carter** (BS '48, MA '48) has recently retired and moved to Austin. He writes "Finally got that granddaughter we wanted and we're burning up the highway to Houston to see her."
- Dwight E. Cassell** (BS '54, MA '57) is exploration manager for Tri-Power Petroleum in Houston. Dwight reports, "Linda and I had a great trip to Peru and Chile to get a better look at Mr. Halley's comet. Both daughters graduated from UT this spring. Hanging in there and waiting for the boom to come back."
- Charles A. Caughey** (BS '69, MA '73) is employed as exploration manager for Inxco Oil Company in Houston.
- Donald E. Caussey** (BS '51) is a vice president with Pennzoil in Denver.
- Ralph S. Channess** (BS '57) is chief geologist with Texasgulf Chemicals Company. Ralph and his wife, Madge, are now living in Greenville, North Carolina.
- Guy A. Chamot** (PhD '69) is an international consultant with offices in Washington, D.C.
- William D. Chandler** (BS '51) lives in Midland where he is a division manager with American Quasar Petroleum Company.
- Jenny Burgen Chapman** (MA '84) is a hydrogeologist with Environmental Evaluation Group in Santa Fe, New Mexico.
- George Don Chastain** (BA '75) is an independent consulting petroleum geologist in Round Rock, Texas.
- Walter Chatham, Jr.** (BA '48, MA '50) is retired and lives in Mineral Springs, Texas. He says, "Hello again to everyone."
- Tom H. Chesnut** (BS '59) is sales manager for Texas Industries, Inc., living in Arlington and reports, "I am still selling lightweight aggregate for old TXI and have received my 20-year pin."
- C.A. Chimene** (BS '50) resides in Houston where he is the president of The Laahnz Corporation.
- Joe Christie** (BS '58), president of Christie Energy Company in Austin, writes, "actively expanding pipeline operations of our company." Joe has been appointed by Governor White as chairman for the Texas Commission on Economy and Efficiency in State Government.
- Rubie Vaughan Christner** (BA '29) is self employed and resides in Shamrock, Texas.
- Stephen E.** (BS '40, MA '41) and **Patricia S. Clabaugh** (MA '62) reside in Spicewood,

- Texas. Steve is professor emeritus in the Department of Geological Sciences at UT Austin. "Pat and I continue to enjoy retirement on the banks of the Pedernales. Gardening, swimming, stone masonry and visits of children and grandchildren keep us busy and happy."
- Joseph C. Clark** (BS '57, MA '59) is visiting professor of geology at Indiana University of Pennsylvania. He has presented papers to the Pittsburgh and Monterey Bay Geological Societies and also continues his work on the California Coast Ranges.
- W.G. Clarkson, Jr.** (BA '37) is semi-retired and resides in Midland.
- Robert C. Cobb** (BS '77, MA '80) is geologist III for the Standard Oil Production Company in Dallas. "I'm working the Anadarko Basin of southwest Oklahoma. Everything is going along fine."
- Kyle S. Cockerham** (BS '83) works as a geologist in Salinas, California.
- George Coffin** (BS '59) is a technical service engineer in Houston.
- H. Grady Collier, Jr.** (BS '49) is an independent geologist in New Orleans. "I am very happy to have received an honorary life membership in the New Orleans Geological Society. I have been elected vice president of the Society of Independent Earth Scientists, as well as vice president for their foundation."
- Bryan D. Collins** (BS '50) resides in San Antonio where he continues to enjoy retired life. "We are planning a trip 'down under' this winter which is summer time in Australia."
- James W. Collins** (BS '56), president of C.K. Resources in Corpus Christi, reports, "Daughter graduated from UT this May, must be getting old."
- Carlton Cook** (BS '78) is employed by South Louisiana Venture, Inc. in Lafayette.
- John D. Cooper** (MA '64, PhD '70) is a professor of geological sciences at California State University, Fullerton. John has been very busy and reports, "I coauthored a geology text, *A Trip Through Time*, and am looking forward to the IAS Congress in Australia where I will present two papers. The children are growing up fast and are active in many sports. Hope to see old friends in Austin in '87."
- Mary Beth Cooper** (BA '67, MA '69) resides in Denver where she is the president of Cooper Smith, Inc.
- Frank G. Cornish** (MA '75) is a district exploration geologist in Corpus Christi with TXO and says, "holding on to my job until the next boom." His children are seven and five years old.
- Bill C. Cotner** (BS '53) is owner of Meadco Properties in Midland.
- Jerry Covington** (BS '43) is a geologist in Midland. "Still looking for oil, gas and sulfur. Best regards to all my classmates."
- R. Wilson Cozby, Jr.** (BS '61) says, "All is well. Son, Drew, is a freshman at UT." Wilson is a pediatric dentist in Tyler.
- Weyman W. Crawford** (BS '50) lives in Houston and is an executive vice president with Elf Aquitaine Petroleum.
- William E. (Bill) Crawford** (BS '62) is employed by Hunt Oil Company in Dallas as a geophysicist. "Doing well and happy to be back with Hunt after a five-year hiatus. Greetings to '62 classmates and best wishes to the faculty for more great years."
- Steve Cumella** (BS '77, MA '81) is a geologist with Chevron in Denver.
- Russell W. Cumley** (BA '31, MA '31) resides in Austin and is retired.
- John M. Curchin** (MA '85) is a geophysicist for UNOCAL in Lafayette. "My thesis will be published in a special issue of JGR."
- Hugh W. Curfman** (BS '48) is working as an independent geologist in Lafayette. He writes, "Things are quiet at home with our fifth child at SMU. The birth of our new grandchild should live things a little."
- Thomas B. Curlee** (BS '50), a consultant in Oklahoma City, likes "to keep in touch with old friends and classmates at UT."
- David K. Curtice** (BS '53) is retired and living in San Antonio.
- Harris P. (Koop) Darcy** (BS '51) is an independent geologist in Houston. "The Energy Exploration, Inc. No. 1 Asher well in Israel is 21,428' T.D. Psalm 27:14, Proverbs 25:25. Hallelujah!!!"
- Larry J. Darnall** (BS '58) is president of Darnall Petroleum, Inc. in Dallas and reports, "Struggling along like everyone else but there's always a silver lining."
- Michael J. Darr** (BS '81) is a graduate student NAU in Flagstaff, Arizona. He likes Arizona but misses the hill country.
- Rick Dauzat** (BS '80) works for Esso Exploration as a petroleum geologist in the Europe-Africa Division. Rick is currently working the areas of Tanzania, Uganda, Zaire and Mozambique. Next year he will be transferring to New Jersey to the newly formed organization, Exxon Company, International.
- George A. Davis** (BS '59) is the president of Geophysical Consulting Company in Houston.
- George H. Davis** (MA '66) resides in Tucson where he is vice provost of the University of Arizona. George reports, "With my hectic schedule I still plan to teach. My three sons are growing up fast and doing fine."
- Mary Q. Davis** (BS '48) is a med lab technician at the Mother Frances Hospital in Tyler, Texas.
- Richard A. (Skip) Davis, Jr.** (MA '61) is a professor of geology at the University of South Florida in Tampa. Skip reports, "My first year in 13 as a garden variety faculty member has been lots of fun. Will be in Australia for three months and will attend the IAS."
- Wm. H. Davis** (BS '41) is retired and lives in San Antonio.
- Brad Dawson** (BS '82) lives in Houston and is a geologist with Dawson Exploration, Inc.
- He and his wife have a baby boy named Matthew.
- Donald F. Dean** (BS '83) works as a research scientist at the University of Texas Institute for Geophysics. He is happy living in Austin and "having a great job."
- Leslie A. Dedeker, Jr.** (BS '55) continues to work as an area geophysicist in Houston for Union Exploration Partners LTD.
- Garry O. Dent** (MA '75) is president of Cavalry Exploration Corporation in Houston.
- David Dwight Dernick** (BS '80) has set up a district office for Dernick Resources, Inc. in Oklahoma City where he is the vice president of exploration.
- William H. (Bill) Devine** (BS '48) does consulting work for McCord Exploration in Houston.
- Patricia Wood** (BA '70) and **Ed Dickerson** (BA '58, MA '66) send "greetings from Midland." Ed is a consulting geophysicist who developed a shallow seismic system which is seeing increasing action in many areas of the U.S. Pat's consulting business is off to a positive start in structural research, hazardous-waste-disposal-site studies and international exploration.
- Jane Ormond Dinkins** (BS '38) is retired and lives in Houston. "Still raising red angus cattle on our farm at Chappell Hill."
- George A. Donnelly, Jr.** (BS '40) is president of The Eastland Oil Company. He still lives in Midland and keeps looking for gas and oil despite all the doom and gloom.
- Matthew L. Doolen** (BS '81), a senior geologist with Exxon in Midland, reports, "trying to hang on and hope for an improvement in oil prices soon. Our one-year-old son keeps us busy."
- James Doyle** (BS '73, MA '76) resides in Dallas where he is a geologist with Standard Oil Production Company.
- Robert E. Doyle, Jr.** (BS '55, MA '57) is president of American Energy Reserve Consultants in Houston. "Formed American Energy seven years ago and am in the business of buying developed and undeveloped oil and gas properties. Would welcome the opportunity to visit with any of the geology alumni."
- John G. Drake** (BS '74) is an independent geologist in Corpus Christi. John was elected president of the Corpus Christi Geological Society for the 1986-87 year.
- Daniel David Droll** (BS '49), general manager for Shaffer De Mexico, lives in Mexico City but maintains his home base in McAllen. "Will take early retirement this year."
- Thomas V. Dubois** (BS '77) is an independent geologist in Corpus Christi.
- Ralph C. Duchin** (MA '55) works as a geologist with Zinn Petroleum Company in Houston.
- Carolyn Kirschner Dufurrena** (MA '79) does consulting for small mining concerns, looking for gold in Winnemucca, Nevada.
- William E. Dunaway** (MA '62) is trying to weather the economic crunch in Kingwood, Texas, as an independent geologist.
- Don Dunbar, Jr.** (BS '51) lives in Midland

where he has been an independent petroleum geologist for the past 30 years. "My son is working with me while finishing his MS at UTPB. We explore the Permian Basin and have participated in wells in Alabama and Mississippi. Daughter, Heather, graduates this year from Duke with a BS in Geology."

Robert B. Dunbar (BS '75) is an associate professor of geology and geophysics at Rice University in Houston. He will be on sabbatical at Victoria University in New Zealand during 1986-87.

David E. Dunn (PhD '64) is dean of the college of natural sciences and mathematics at UT Dallas. "Gretchen and I are now well settled in Dallas. My job remains fun and the challenge of helping get our engineering program started is really exciting."

Joe A. Durham (BA '57) is president and owner of General Sound Company. He reports, "I finally got Sarah to move to the country, Parker, Texas, so I commute to our business in Richardson. Leisure time is spent dove and turkey hunting with some side trips to Lake Proctor for ducks. Really enjoy the *Newsletter*."

Shirley Peterson Dutton (MA '77), a research associate at the Bureau of Economic Geology, has been invited to participate in the 1986-87 Distinguished Lecture Program of the American Association of Petroleum Geologists. She will speak before scientific societies and universities throughout the United States and Canada on the topic, "Diagenesis of Pennsylvanian Arkosic Sandstones, Anadarko Basin." Shirley is also working on her doctoral degree in geology at the University of Texas at Austin.

Fred A. Ealand (BA '45, BS '48) lives in Houston and works as an exploration geologist for Exxon. "Youngest daughter Carol was married in April. I'll probably retire before the year is over."

Billy M. Easley (BS '48) is president of Easley Oil & Gas, Inc. in Corpus Christi and writes, "Still riding the ups and downs in the oil business. Would like to hear from old friends."

Joan Echols (MA '59) is associate professor of earth sciences at East Texas State University in Commerce. She reports, "This has been a tough year with budget cuts, and getting older. Hope all my former classmates had a good year. Greetings to all."

John E. Edwards (MA '74) is vice president of Sweet-Edwards & Associates in Kelso, Washington. "Sweet-Edwards continues to provide ground water consulting services in the northwest."

Charles R. (BS '78) and **Lynda Coons Ehlers** (BS '80) reside in Dallas where they are both employed by Placid Oil. Charles is a senior exploration geologist; Lynda is a district geologist, Williston Basin district.

Gus K. Eifler, Jr. (BA '29, MA '30) is a consultant with offices at the M Bank Tower in Austin. Gus sends greetings to

everyone and says, "Visitors are most welcome."

Arthur B. Elliott, Jr. (BS '55, MA '58) is a geological advisor for Mobil in Dallas. "Back working on the lower 48 after three years supervising Mobil's regional geology section in London. Wife and daughter enjoying reacquainting ourselves with old and new friends in the USA."

Ab R. Ellis, Jr. (BS '50), a district development geologist with Standard Oil, has moved his offices from Midland to Dallas. "This big city living takes a little getting used to."

Ross Ensley (BS '76) is an exploration geophysicist with Esso Exploration Inc. in Houston. "Esso plans to move our offices to New Jersey and I am looking forward to the change of scenery. On the home front, my wife and sons are doing well."

Albert (Al) W. Erxleben (MA '74) is a division geologist for Tenneco Oil in Houston. "Exploration of the Texas Gulf Coast and East Texas Basin is more challenging and fun than ever before. These times truly test our resolve and our abilities."

James P. Evans III (MA '65) resides in New Orleans where he is the president of the Orleans Exploration Company.

Rizer Everett (BA '37, BS '37) is a consulting geologist in Austin. "In the spring of '85 Hildegard and I visited family members in Washington, D.C. at the height of the cherry blossom season, also visited family and friends in California and New Mexico. Took our granddaughters to Epcot and Disney World in Florida. Served as chairman of registration for GCAGS. In March we met with the Stanvac planning committee to initiate plans for the October reunion of employees who have worked in Indonesia. I urge all geology graduates to give financial support to the Geology Foundation and to submit your news items for the *Geological Sciences Newsletter*."

Norman Ewbank (BS '43) resides in Midland and is retired. He reports, "Retirement is (YAWN) great. Anyone out there want to hire a good second-hand geologist?"

Stuart Fagin (PhD '83) is employed with Exxon as a research geologist in Houston.

George H. Falk (BS '57) lives in Seguin and is self employed. He reports, "still doing fine but it wouldn't make me mad if oil prices would go up again."

Dorman N. Farmer (BS '50), a geologist in Abilene, writes, "1986 has brought many economic woes; however it is going to get better. I was presented with a grandson and granddaughter this year and everyone is fine so I couldn't ask for more."

William A. Faubion (BS '50) continues to work as a geologist in Houston.

Irma Morgan Feilbelman (BS '59) is manager of the software quality department at the Johnson Space Center in Houston.

Murray Felsher (PhD '71) is president of Associated Technical Consultants and publisher of *Washington Remote Sensing*

Letter in Washington, D.C. Murray's consulting business continues to thrive, and his newsletter is in its sixth year of publication. "Wife, Natalie, will be an elementary school principal; daughter, Elyann, will enter Washington University in St. Louis this fall; son, Harry, is at the University of Maryland, and Josh is in high school."

Nancy Null Ferstler (BS '79) resides in Houston where she is employed with John H. Young, Inc. as an exploration geologist.

Johnnie E. Fish (MA '70) is working with the U.S. Geological Survey in Miami, Florida.

Dorothy Yates Fisher (BA '27) is retired and lives in Rosenberg, Texas. "I am interested in anything about UT Austin especially the geology department."

Sterling H. (Chip) Fly III and **D'nese Young Fly** (BS '80, MA '85) are geologists in Midland. Chip is employed with Cities Service O&G and D'nese with J.W. Hubbard & Associates. They are proud to announce the birth of their second son, Seth.

Richard R. Foster (BS '50) resides in Midland where he is a real estate agent. He reports, "After 35 years in the oil business, I am now selling and investing in real estate. In Midland there is more action in real estate than there is in oil."

Hewitt B. Fox (BA '47, BS '48, MA '48) is an independent oil and gas operator in Corpus Christi and is "planning to join the 1947 graduates at Colorado Springs in July."

Elizabeth A. (Jennings) Fox (BA '61) says that, "After working for the General Land Office of Texas for six years, and living in Austin since graduating from UT, my family moved to Corpus Christi. We miss Austin, and news about the Southwest Conference, but Corpus is a friendly city, and we are happy here."

Dan Frantzen (MA '58) lives in Lafayette and is president of Stone Petroleum Corporation. He writes, "The stage is being set for the next domestic oil and gas shortage that will lead the nation into the next crisis and the industry into the next boom."

Glen Frantzen (BA '73) continues to work as a general manager for Pool-Intairdril in Quito, Ecuador. Glen and Elsa are the proud parents of a baby girl, Jessica. He writes, "Please stop by and see us if you are ever in Quito."

James C. Freeman (BS '43) works as an independent geologist in Corpus Christi.

Todd B. Freeman (BS '78) resides in Houston where he is a consultant for Exploration Services. Todd says, "hang in there."

Tom Freeman (PhD '62) is the chairman of geology at the University of Missouri. Tom reports, "spend my time with faculty development, alumni relations and fund raising. Peg teaching third graders, Tom a geologist and Rob an attorney."

Annabelle Bannahan Friddle (BA '45, MA '50)

- resides in Aztec, New Mexico, where she stays busy with skiing, golfing and art work.
- Donald W. Frye** (BS '55) is employed as manager of geophysical data processing and acquisition for Tenneco Oil Company in Houston.
- Henry L. Fulghum** (MA '50) is a consulting geologist in Jackson, Mississippi. "Exploration is currently very slow and I will be glad when the economy of the oil business improves."
- Warren P. Fuller** (BS '40, MA '48) is self employed and lives in Menlo Park, California.
- James B. Furrh, Jr.** (BS '50), an independent oil producer in Jackson, does drilling in Mississippi and Alabama. His three sons have graduated from college. He and his wife spend most of their time at their condo in Destin, Florida.
- Robert B. Gaines** (BS '49, MA '51), retired after 29 years as a geological engineer for Inter North, is now an independent consultant in Midland.
- G.H. Galny** (BS '48) resides in Houston and is "just enjoying retirement with a little travel and sunshine."
- Iacopo Gambini** (BS '58) resides in Friendswood, Texas, and is employed by General Pipe Service out of Bogota. He is getting used to living in the Houston area again after 25 years in South America.
- L.E. (Ed) Garner** (BS '62, MA '73) is a consulting geologist in Austin.
- Leroy Gatlin** (BS '48, MA '51) is an independent petroleum geologist in Oklahoma City. He writes, "What the Arab giveth, the Arab taketh away. I was talking about a family Xmas present we purchased for \$1400. I was reminded that was equal to 100 bbls. of oil. Ouch!"
- Thurman Geddie** (BA '45) is a geologist and enjoys living in Austin.
- Clem E. George** (BA '47, MA '48) resides in Midland and is self employed. He is "praying for one more boom."
- Fred Marion Gibson** (BA '51) resides in Austin and is a seasonal employee with the Internal Revenue Service.
- Leslie W. Giddens, Jr.** (BS '54, MA '57), independent geologist in Corpus Christi, is "drilling oil and gas prospects in south Texas."
- Louis deA Gimbrede** (MA '51) enjoys retirement as professor emeritus from the University of Southwestern Louisiana in Lafayette. "Planning a visit to central Texas soon and hope to see old friends."
- Jerry R. Gips** (BA '70), president of Tourmaline Oil Company, resides in Houston.
- Paul Giraudin** (BS '48) is retired and lives in Corpus Christi.
- Stephen L. Glahn** (BS '80), geologist and co-owner of GRR Inc. in Dallas, reports, "Still looking for oil and gas but raising funds for new wells is tough. Our daughter, Heather, is one year old."
- Charles Goebel** (BS '80), employed as a geologist with Arco-Dubai, says, "The patch is really drying up. They're not even drilling water wells over here anymore." His son, James Sebastian, was born last year.
- Paul B. Gold** (MA '84) is an exploration geologist for Exxon in Denver.
- Eugene M. Goltz** (BS '49) lives in Abilene where he is a petroleum geologist.
- W. Leonard Goode** (BS '53) is a consulting geologist in Midland and sends best wishes to everyone.
- Phil Goodson** (BA '84) is a geologist in Austin.
- Greg Goodwin** (BS '83) resides in Spokane, Washington.
- Charles T. (Chuck) Govin, Jr.** (MA '73), a manager with the Wisconsin Electric Power Company in Milwaukee, is getting further away from geology but learning more about the energy business.
- Ronald Graner** (BS '58) is an operations geologist with the Soil Conservation Service in Nashville.
- Richard E. Grant** (PhD '58) continues to work as a senior geologist at the Smithsonian Institution in Washington, D.C. He "gave a talk on Permian brachiopods at the First International Congress in Brest, France, last September. I still do research in the Glass Mts. and every spring give lectures at Sul Ross".
- C. DeVearle Gray** (BS '57) is senior vice president-exploration for Moore McCormack Energy in Dallas. "With the oil business so slow I have more time to do other things. Enjoy reading the *Newsletter* and catching up on old friends."
- Robert W. Grayson** (BS '48) is a consultant in Austin.
- Willard R. Green** (MA '55) is an independent consulting geologist in Midland where he continues the search for oil and gas. Will is the president of the West Texas Geological Society.
- Charles J. (Chuck) Greene** (BS '75) resides in Austin and is a geologist with the Texas Water Commission. He still enjoys his work and takes courses at UT now and then, and likes sailing beautiful Lake Travis while sipping a cool one.
- Jeremy T. Greene** (MA '83) is a geophysicist with Arco Oil & Gas in Houston. He and his wife, Lynn, are expecting their first baby this year.
- Charles R. (Dick) Grice** (BS '46), a consultant in Midland, reports, "Ann and I are still actively searching for oil and gas."
- Robbie Gries** (MA '70), a consulting geologist in Lakewood, Colorado, writes, "The excitement of finding oil under the San Juan volcanics can now only be surpassed by finding a large field and we're working on that. The year has been good professionally and a trip to France made the year fun personally. Hope we can all hang in there through this rough time."
- Ariel Dale Griffin** (BS '57) resides in Houston where he is a geophysicist.
- Thomas W. Grimshaw** (MA '70, PhD '76), program manager for Radian Corporation, lives in Austin.
- Robert O. Gross** (BS '63, MA '65) is vice president and chief geologist for Lear Petroleum in Dallas.
- Mehmet Gürel** (MA '56) is president of the inspection committee, General Directorate of Petroleum Affairs in Ankara, Turkey. "In our principle, present is the key for the past, and I can say the present plus the past be the key for the future. So be a good geologist and have a prosperous future. Best wishes and good luck to all my friends."
- Marco Guzman-Speziale** (MA '85) is currently working on his PhD in physics at New Mexico State University.
- Karl Hagemeyer** (BS '49) is a petroleum exploration consultant in Houston. He continues to look for oil and gas in South Louisiana and in the Gulf Coast of Texas. "Times remind me of the late 50's when exploration dollars vanished. They will return! Daughter Jeannie graduated with her second degree from UT Health Science Center in San Antonio. She plans to work as a physical therapist in the Austin Independent School District."
- W.R. Hakes** (BA '40) has retired and lives in Colorado City, Texas.
- Richard B. Hale** (BS '36, MA '68) is retired and lives in Austin. "I do a lot of travelling, really enjoy the Orient."
- Bill F. Halepeska** (BS '52), a self-employed consulting geologist, makes his home in Midland. Bill likes the independent status but says, "It could get very quiet in the oil patch."
- Susan Hallam** (MA '82) is a geologist with Arco Oil & Gas in Plano.
- C. Clyde Hamblin** (BS '50) is an independent petroleum landman and producer in Midland. "Plans for extensive travel are curtailed somewhat by falling oil prices, but still hanging in there."
- Henry Royden Hamman** (BS '59, MA '62) is an independent in Houston and is "actively looking for prospects in preparation for the turnaround."
- Weldon W. Hammond** (BS '60, MA '69, PhD '84), associate professor of hydrogeology at UT San Antonio, reports, "The wonderful world of hydrogeology just keeps on getting better. Dodged the bullet one more time and got my Captain's eagles in the Navy. Looking forward to seeing old friends at the 1986 GSA convention."
- John H. Hansen** (BS '78) is a partner-manager with Hansen Oil Corporation in Shreveport.
- Louis H. Haring, Jr.** (BS '38) resides in San Antonio where he is president of the Haring Energy Company. "Seeking prospects and drilling a few wells each year."
- Jess L. Harkness** (BS '60), stock broker and cattle rancher, lives in Corpus Christi.
- Travis O. Harkness** (attended '34-'36) has retired from the oil business and makes his home in Kaufman, Texas. "I now manufac-

ture a tractor hydraulic grubbing tool, the Brush Boss, for pulling Mesquites, roots and all."

Wiley B. Harle (BS '50) is semi-retired and living in Houston. He still teaches earth sciences to junior high students and writes, "I wish I had some of Dr. Stafford's slides he used in Geology I."

David H. Harrington (BS '51, MA '53) is a consulting geologist in Houston.

Cleason L. Harris (BA '51) resides in New Orleans where he is a geological consultant.

J.R. (Dick) Harris (BS '53, MA '57) works as a consultant in Calgary, Alberta, Canada.

Thomas E. Harris (BS '57) is employed as a geologist with American Shoreline, Inc. in Corpus Christi.

Richard E. Hart (BS '74) works for the Ladd Petroleum Corporation as an exploration geologist in Houston. "I am thoroughly enjoying the opportunity to explore the expanded Yegua Formation in Wharton and Jackson Counties. Special thanks to Dr. Alan Scott for planting the seeds of depositional processes in our minds."

Monica Hartmann (BS '82) is employed as a geologist in Dallas with the Deminex U.S. Oil Company.

H. Lee Harvard (BA '55) resides in Roswell, New Mexico, and is president and CEO of the Harvard Petroleum Corporation. He is happy that his company remains healthy after rolling 17 partnerships into a private master limited partnership. His son, Jeff, received his BS in petroleum engineering from UT in 1984. Another son is a senior at SMU and will spend the summer at Oxford.

Robert S. Harvill, Jr. (BS '50), a geophysicist with Exxon in Houston, plans to retire this summer. "After 35 years I am ready for golf and travel."

G.M. Harwell, Jr. (BS '57, MA '59) is vice president of Bayleaf, Ltd. in Houston. "Bad times present a different set of opportunities. Those who can change, redirect their resources and capitalize on the opportunities at hand, will prosper."

Eric K. Hass (BS '78) resides in Houston where he is employed with Mobil as an exploration geologist.

Laurence H. Hawes (BS '51), a senior geological supervisor with Arco Oil & Gas in Midland, plans to retire this year. "Like many of us, I have seen the ups and downs in our beloved industry. The oil and gas business is resilient and will come back again. I wish old and new grads the very best."

Hugh Hay-Roe (MA '52, PhD '58) is a consultant in Kingwood, Texas. "The textbook I coauthored was finally published in February. Marriage of our son has led me to realize why the human gestation period is nine months: it's to give not-so-old geezers time to get used to the idea of being married to a grandmother."

Edward F. Haye (BS '51) is president of

Benchmark Exploration in Houston. He reports, "still trying to make it as an independent geologist."

John E. Hearn (BS '52), an independent consultant in Houston, writes, "I am trying to wait out the drop in prices until they turn around."

Kris K. Hefton (BS '78) resides in Denver and is a senior project geologist with Energy Fuels Nuclear, Inc.

Arch H. Heim (BS '50) is a staff member with Schlumberger in Ridgefield, Connecticut.

James H. Helland (BS '43), president of Inland Ocean Inc. in San Antonio, reports, "Just about the time I was going to turn the business over to Hans R.F. Helland III, both gas and oil prices fell and now we are both working seven days a week and welcome anyone who has a drilling deal."

John D. Henderson (BS '37) resides in Dallas where he keeps busy with real estate investments.

Leo Hendricks (PhD '42) is retired and is "happy to be back in Abilene after 13 years in New Mexico."

Kurt Henze (BS '78), a geophysicist with Western Geophysical in Englewood, Colorado, has "returned from a two-year stint in Peoples Republic of China. Still recovering from the culture shock of re-entering this decadent and bourgeois society. Also wondering what happened to the industry, it's still good overseas."

await a return of the stability of the oil industry."

Charles W. Henslee (BS '51) is a district exploration geologist in Houston with the Diamond Shamrock Corporation.

Charles H. Hightower, Jr. (BS '56) works as an independent geologist in Lafayette.

Janice Lorraine Hill (BS '79) is employed as a geophysicist with Chevron in Aurora, Colorado. "Whether I like it or not, I'll probably get the summer off. The next year will be spent retooling my career, maybe even going back to school."

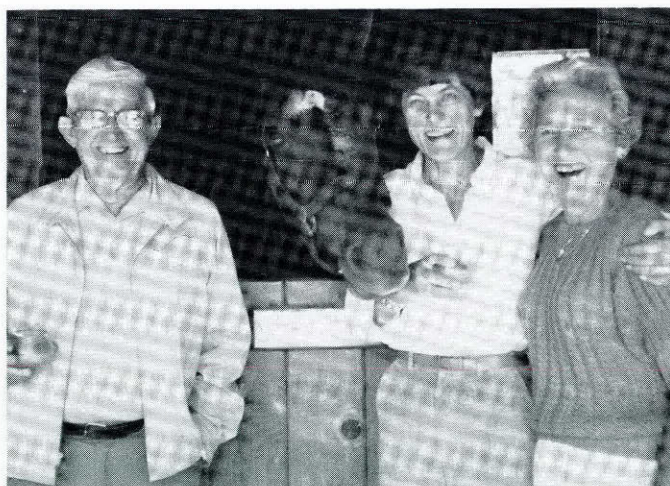
L.A. Hinnov (MA '85) is an astronomer at the U.S. Naval Observatory in Washington, D.C. This fall she will continue her doctoral studies at Johns Hopkins in the Department of Earth and Planetary Sciences.

Michael M. Hinze (BA '73) is employed by Tenneco Oil as a division landman in San Antonio.

Nolan Hirsch (BS '44), an independent geologist in Midland, writes, "Like everyone else I hope the down turn in oil prices is a short one."

Dave Hixon (MA '59) resides in Friendswood, Texas. Dave reports, "I am job hunting, barely avoided foreclosure on my home and with a son in college, hope you'll accept a token donation."

Ann Hoadley-Leist (BS '79) resides in Austin and writes, "Hello to old geomates and those involved in the oil biz. I hope you're



Carroll Ann Hodges (center) introduces her horse to **Jack** and **Marge Wilson** during their recent visit to California.

E.R. (Bob) Henningsen (BS '57) is an associate professor of physical sciences at Tarleton State University, Stephenville, Texas. Bob reports, "still enjoy teaching and my family is doing well."

Reid Hensarling (MA '81) is a geologist with Tee Oil Company in Lafayette. "We have expanded our geological horizons beyond southwest Louisiana into southeast Texas and Pennsylvania. We hope to be successful in these new frontiers and likewise

hanging in there. I am still at home fulltime and caring for little ones. I hope to read in the *Newsletter* about the 1970 graduates. Are you guys still out there?"

Steven L. Hochstein (BS '81) resides in Houston.

Carroll Ann Hodges (BA '58) is assistant chief geologist, western region, with the U.S. Geological Survey in Menlo Park. A management role "in a fiscally distressed outfit has its less rewarding aspects.

- However, being ACG provides fascinating insights to the operations of the Survey and the opportunity to travel and hob-nob with state geologists like Charlie Mankin. Enjoyed having Marge and Jack Wilson drop by and giving my bar the Margarita test."
- F. A. Hoeninghaus, Jr.** (BS '49) is enjoying retirement in Houston after working 36 years for Exxon. Fred is "looking forward to the *Newsletter*."
- Charles Wayne Holcomb** (BS '37) reports from Columbus, "A decade of retirement has passed, but I am still up and at 'em—tain't easy."
- Larry Holcomb** (BS '75) is a regional geologist in Houston with BHP Petroleum Inc.
- David S. (Scotty) Holland** (BS '57) resides in Houston and is president and chief executive of Pennzoil Exploration and Production Company. "Assumed present position in 1984. Never thought I would be the one to restrict budgets. Keeping fingers crossed for an upturn for our industry. Jacque and I are enjoying our three grandchildren."
- William C. Holland** (BS '81) is employed by Tenneco Oil as an exploration geologist in Lafayette. He and his wife, Shelly, do woodworking projects and have opened a small craft business. Bill still likes to go bird hunting with his two chocolate labs which he trained himself. He is proud of the UT girls basketball team.
- W. F. (Kirk) Holland** (MA '73), assistant vice president of Radian Corporation in Austin, has finished a one-year assignment in Sacramento. "Our small office there has grown to over 150 in three locations on the west coast. Enjoyed California, but there's no place like Texas."
- Clifford K. Holloway** (BS '50), a consulting geologist in Amarillo, writes, "The slump in oil has taken its toll on the Anadarko Basin, primarily a gas basin. People not affected don't realize a BTU is a BTU. The screw will turn."
- Elena Kowalsky Holloway** (BA '72) owns a bakery in Laredo. "What a switch from geology to running a very successful bakery. I love cake decorating and the challenge to be creative."
- C. Lee Holt** (BS '48, MA '50) is a consultant in hydrogeology in Port Aransas. Lee spends his spare time sculpturing in wood and clay. His wife, Pat, placed second in the Texas writers' competition with her book on her Jordanian experiences.
- Edward C. D. Hooper** (BS '82) is employed as a geologist with Halbouty Energy Company in Houston.
- Eleanor M. Hoover** (BS '56) is employed by Exxon as a geological associate, for the Gulf Coast division, in Houston.
- Richard A. Hoover** (PhD '68) is a geological scientist with Exxon Corporation in Houston.
- Paul Horn** (BS '47) is an exploration manager and resides in Dallas.
- Carlton W. Hornbeck** (BS '55), an independent petroleum geologist from Round Rock, Texas, writes, "Business is almost as tough as the sixties. I still enjoy the *Newsletter*."
- Joseph Hornberger, Jr.** (BA '29, MA '31) resides in Houston where he is "retired from engineering and geological services."
- Claude W. Horton, Sr.** (former faculty) is professor emeritus of Geological Sciences and Physics, UT Austin and lives in Granger. Claude reports, "I am an associate editor for *Underwater Sound*, Journal of the Acoustical Society of America. I am the chairman of two PhD committees in physics, otherwise, life is uneventful."
- Charles M. Hoskin** (PhD '62) resides in Kingston, Washington, and is "job hunting."
- Jon W. House** (BS '57) is a self-employed geologist in Ruidoso, New Mexico.
- G. B. (Bill) Howard IV** (BS '82) is a geologist with Midland Production Corporation in Houston.
- Ed Hughston** (MA '50) is an independent in Taos, New Mexico. Ed enjoys visiting with Dr. Bullard, who is a frequent visitor to Taos.
- Richard C. Hulbert, Jr.** (MA '79) is a PhD candidate at the University of Florida in Gainesville. He is pursuing a degree in zoology.
- Steven D. Hulke** (MA '78) resides in Midland and is employed as a senior exploration geologist with Hunt Oil Company.
- Emmett A. Humble** (BA '49, MA '51) is president of Esso Exploration, Inc. in Houston. He plans to retire this fall and spend more time with the grandchildren.
- Jack Hunter** (MA '48) is retired and lives in Lacombe, Louisiana.
- W. Clay Hunter** (PhD '79) resides in Denver. He reports, "caught in the sharp downturn in petroleum. I am looking at a transition, perhaps to waste management or engineering applications."
- Elvin Millard Hurlbut, Jr.** (BS '43) has retired from the Johnson Space Center and lives in Tyler. "Virginia and I are fine, enjoying retirement very much, and looking forward to receiving the *Newsletter*."
- Joe A. Hybner** (BA '52) is an independent geologist in Corpus Christi.
- Judy Gaylord Ingham** (BS '81) is employed as a production geologist with Mobil Oil in Denver. Judy is also working on her master's degree in Mineral Economics at the Colorado School of Mines in Golden.
- Carl B. Irwin** (BS '39) is retired and resides in San Antonio.
- Grover J. Isbell** (BS '41) is an independent geologist in Oklahoma City.
- J. R. Jackson, Jr.** (MA '40) is president of Norjac Enterprises, Inc. in Houston where he is "actively consulting for Petroleum Information and National Ocean Industries Association."
- Russell W. Jackson** (BS '76) lives in Tyler and is an independent geologist.
- S. Lance Jackson** (BS '79), a supervisory geologist for Exxon U.S.A. in Midland, says, "Houses are a good buy in Midland, fortunately mine is not for sale."
- Eric H. Jager** (MA '41) resides in Wichita, Kansas, where he is a consulting geologist. "Have worked petroleum geology for forty years, but still enjoy keeping up with the latest scientific methods."
- Otis L. James, Jr.** (MA '52) is self employed as a geologist and oil producer in Gainesville, Texas. He reports, "No changes, still looking for oil and gas in north Texas."
- Beth Ann Janssen** (BS '84) is enrolled at Texas A&M and expects to receive her MBA next summer. "Next time I'm at the Dixie Chicken, I'll raise my Lone Star in a toast to all my great friends from UT."
- M. H. "Pete" Janszen** (BA '50, MA '53) is retired, but "still hanging around" in San Marcos.
- Bridget Jensen** (BS '85) is a student at Caltech in Pasadena, California.
- Les Jeske** (BS '84), a reservoir analyst with Norward Energy Services Ltd. in Calgary, Alberta, comments, "really enjoy it up here, but wish the winters were a little warmer."
- Charles B. John** (BS '51) is employed as a supervisory geologist with the U.S. Department of the Interior in Tulsa. "I want to echo a testimony by Robert Cobb (BS '77, MA '80) in the 1984 *Newsletter*: 'the good Lord has been gracious to one such as me.'"
- John W. Johns** (BS '77) is a consulting geologist in Houston.
- L. Chris Johnson** (BA '70) is employed by Cobra Oil & Gas Corporation as an exploration manager in Shreveport.
- John E. Johnston, III** (MA '77) is chief, energy and mineral resources, at the Louisiana Geological Survey in Baton Rouge. He writes, "I'm happy as a clam raising nephews, dogs and hell."
- Charles E. Jones** (BS '51) resides in Houston. He is retired but is "playing golf almost every day."
- Charles R. Jones** (BS '50), a geological consultant in Midland, writes, "If our economic climate doesn't change soon to the plus side with stability, it could be punting time for the bulk of the petroleum industry."
- J. Phil Jones** (BS '64), president of Classic Exploration Trades, Inc. in Oklahoma City, sends "best wishes to the great state of Texas on her 150th. Keep up the good work."
- Luther Jones** (BS '59) continues in his duties as supply manager at Kelly AFB in San Antonio and writes that he enjoys the *Newsletter* "from cover to cover."
- Richard D. Jons** (BS '56) is an independent geologist in Midland.
- Alan Joyce** (BS '74) resides in Lakewood, Colorado, where he is an independent geologist.
- Stephen C. Jumper** (BS '84) lives in Midland where he is employed as a geophysicist

with Dawson Geophysical.

Kenneth M. Kaihlanen (BS '84), a geologist with LBJ Oil and Gas, Inc. in Austin, is "currently seeking qualified investors to participate in joint venture drilling programs."

Frank C. Kallina (BS '39) is retired and lives in San Antonio. He and his wife will celebrate their 45th wedding anniversary this year. They have nine grandchildren. Frank is a "born again Christian serving the Lord and witnessing to many."

James D. Kallina (BS '53) is president of JDK Incorporated in Stafford, Texas.

Mark Cleveland Kasmarek (BS '82) a hydrologist with the U.S. Geological Survey, reports, "Attended U.S.G.S. courses in Denver and Austin. Also running a surface water field trip and performing flood discharge measurements."

Edwin N. Kasper, Jr. (BS '51) is enjoying his work as senior geologist/petroleum engineer for Canadian Imperial Bank Group in Houston. "Carole and I welcomed our first grandchild, Thomas Grant, in March. We are looking forward to attending the Alumni College Update '86."

Steven G. Katz (PhD '75) is senior scientist with Owens-Corning Fiberglass Technical Center in Granville, Ohio. "I recently changed job assignments, moving further away from geology but enjoying the new challenge. I am now in the manufacturing process research area, which is heavy in computers and automation, an area I've been dabbling in for several years. Hi to all the gang in Austin."

Daniel N. Keeler (BS '80) is a geologist with Texas Gas Transmission Corporation in Houston.

Kevin M. Kelly (BS '82) is a research assistant and PhD candidate in the Department of Oceanography at the University of Hawaii.

Edward R. Kennedy, Sr. (BS '48, MA '49) resides in Midland where he is a consultant.

Johnny Kennedy (BS '85) is a graduate student at the University of Texas at Dallas.

Bob Kent (BS '72), vice president of Underground Resource Management in Austin, reports, "began a study of the groundwater resources of southeast Zimbabwe, but the majority of our work is still in Texas."

Leon A. Kent (BA '40, MA '51) is a geophysical consultant in Houston where he does a little consulting and plays lots of golf.

Allan R. Keown (BS '58), owner of A.R. Keown & Associates in El Paso, writes, "Still going strong in the forgery detection business. I thoroughly enjoy reading about all my classmates and their accomplishments. I wonder what percent remain in geology after graduation? You are to be complimented on the *Newsletter*—superbly done."

George L. Keprta (BS '52), a senior geologist with Rutherford Oil Corporation in Houston, is "still searching for drillable oil

and gas prospects."

Don Kerr, Jr. (BS '60) resides in Houston where he is the president of Kerr Construction Services, Inc.

Gene F. Keyser (BA '48) is retired and lives in Midland. "With five children and nine grandchildren to visit, I don't feel retired. I look forward to news of old friends in the *Newsletter*."

Howard W. Kiatta (BS '58), an independent geologist in Houston, is "originating an exploration venture in the Texas Gulf Coast with Joe Walter and others."

Robert S. Kier (PhD '72) has been promoted to principal scientist with Camp Dresser & McKee Inc. "I am now responsible for all science work in the Austin office. Nancy and I are expecting our third child—this should keep us young for a few more years."

Robert J. Killian (BS '77) has joined Gulf Tide Oil Company as manager of geology in Houston.

Victor L. King, Jr. (MA '57) is employed by Shell California Production Inc. as a senior staff petroleum engineer. He writes, "We enjoy the small town life of Bakersfield with its close proximity to the mountains and beach."

David L. Kirchner (BS '73) is vice-president/general manager of Water Resources Associates, Inc., in Phoenix. "I am still enjoying life in Phoenix, and conducting water resources investigations as a private consultant. Carl Teinert (BS '72) is managing our Austin office."

Thomas Kirkpatrick (BS '84) is pursuing a master's degree in geology at the University of Houston. He works as a bartender in his spare time and says, "It's either get that degree or sell shoes."

Don L. Kirksey (BS '60) is enjoying his 20th year with Tenneco Oil Company as geological manager in Oklahoma City. Don continues to enjoy the challenge of the oil business.

Teresa Klump (BS '85) resides in Austin.

Robert G. Knabe (MA '54) is a consultant in Houston.

Earl B. Knott (BS '47) is retired and lives in Seguin, Texas.

Jan Houston Knox (BA '70) is employed as a geologist with the Texas Water Development Board in Austin.

Bill Kohn (BS '50) is working as a life insurance agent in Dallas. He writes, "made enough money to invest in the oil business, now premiums and oil prices are down, seems like I'm headed in the wrong direction."

Jennifer Kraft (MA '84) is an operations geologist with Conoco, Inc. in Lafayette.

Pamela Jean Kramer (BA '84) is a graduate student/research assistant in the School of Architecture at UT Austin. Her future plans include "a December wedding to Terry Cole and working for an environmental and development firm."

Warren Krams (BS '59) is owner of the

Computer Professionals Company in Houston. He reports, "Doing computer work for so many oil companies is almost like being a geologist. Every now and then I have the pleasure of seeing people who were in my geology classes; I love talking over old times with them."

Erwin K. Krause (BS '49, MA '54) writes from Houston where he is retired, "traded my microscope for a passport and lots of visas."

J. David Krause (BS '53) resides in Denton where he owns the Dave Krause Pontiac-Toyota-Dodge dealership. He reports, "Son, Kurt, is the manager of our dealership in Sherman. Bessie and I celebrated our 35th wedding anniversary, seems like only yesterday that we met in Austin. Life is getting better every day. Come see us."

Andrew E. Kurie (MA '56) has recently retired as a consultant and resides in Marathon, Texas. He continues his interest in mining.

Leon M. Lampert (BS '51, MA '53) is the vice president of Dalport Oil Corporation in Corpus Christi. "Trying to generate prospects in south Texas and southeastern New Mexico. Daughter, Gail, is living in Minneapolis; Wayne is an attorney in Ft. Worth and Ellen is a landman (land-person) with Conoco in Casper. Business is bound to be better in 1987."

Kent D. Lantz (BS '84) is employed as a hydrogeologist with Intera, Technologies Inc. in Carlsbad, New Mexico.

Robert K. Lattimore (BS '56, MA '62), working for Chevron Overseas Petroleum Inc. as a geophysicist in San Ramon, California, writes, "roster of Texas-exes a little thin out here."

Jeff Lawton (MA '82) resides in Ventura, California, where he is a petroleum geophysicist with Conoco Inc.

Bob Layden (attended '42-'48) lives in Dallas and has retired, after 37 years, from Sun Exploration & Production Company. He says "I worked all over the southern U.S. and it was great."

H. Louis Lee (BS '54, MA '58) is a partner in the Panterra Petroleum Company in Houston. He reports, "just trying to ride out the big slump. There are still lots of ways to make money in the oil business—the problem is finding them."

Joseph W. Lee (BS '50) is employed by the Property Tax Service Company in Dallas as a geologist.

David Lehman (PhD '74), employed by Exxon in Corpus Christi, sends regards and always enjoys hearing from old friends at the department.

David Lemke (BS '82) is a geophysicist with Amerada Hess Corporation in Houston.

Helmut A. Lenert (BS '38) resides in Shreveport and is a "non-operating producer and royalty owner."

G. Warren Leve (MA '52) is president of GWL, Inc. hydrogeologists in Jacksonville, Florida. "We finally got into the petroleum business. We are finding loads of it in the

- groundwater leaking from underground storage tanks at gas stations throughout Florida. (Could use some good hydrogeologists—send resume.)”
- Robert A. Levich** (MA '73) has just accepted a transfer from the U.S. Department of Energy at Argonne National Laboratory in Illinois to the U.S. Department of Energy at Las Vegas, Nevada. His family will move from Spokane, Washington, where they remained while he was working in Illinois, to Las Vegas this summer. Robert is working in the Nuclear Waste Isolation Program.
- David M. Levin** (BA '78) lives in San Antonio and is president and owner of DML Exploration, Inc. He writes, “Have established enough production to keep me busy with development drilling through 1986. Believe strongly that this period in the industry provides incredible growth opportunity and potential for alert, young independents.”
- Dana L. Lewis** (BS '81) is a senior geophysicist with Esso Exploration, Inc. in Houston.
- Michael J. Lewis, Jr.** (BS '83) is a student engineer at Southwest Research Institute in San Antonio. He is also a Master of Science candidate at UT Austin, Department of Civil Engineering.
- Dean Leyerly** (BS '50) resides in Midland and has retired, after 35 years with Hughes Tool Company. “Enjoying the good life. Margy and the daughters are fine and our grandson keeps us young”
- Walter S. Light, Jr.** (BS '77), vice president of Lightning Oil Company in Houston, is an exploration geologist. He reports, “Pulling together the final pieces of the puzzle for a Smackover test in south Texas. Going to China this summer on a technical exchange program.”
- John F. Ligon** (BS '81) is an exploration manager in Houston with Sandalwood Oil & Gas, Inc.
- Tung-Hung Thomas Lin** (MA '84) is employed with Bridwell Oil Company as a geophysicist in Wichita Falls.
- Roy C. Lindholm** (MA '63) is a geology professor at The George Washington University in Washington, D.C. “On July first I take over as department chairman. I shall remember the day as ‘black Tuesday.’ Betty is a reading specialist in Fairfax County and daughter, Krissy, is getting ready for college.”
- A. L. Linehan** (BS '50) is a consultant in Hilltop Lakes, Texas. He writes, “Consulting work is zero. If this continues, I'll change my title to retired, which is a good word for an unemployed consultant.”
- Eugene Lipstate** (BS '49), an exploration vice president with Northwest Oil Company, lives in Lafayette. “Where, oh where, has the oil business gone? Lafayette has become a city of doom and gloom. Hope there will be an up cycle and we can look upon these times and laugh.”
- Nancy Green Lister** (BS '55) resides in Houston. “Happy Sesquicentennial to all. Chip is at the University of Houston, Gregg is a freshman at UT, and David is in high school. Ray and I attend the games and enjoy seeing the campus and Geology Building. Best wishes to all of you.”
- George Livesay** (BS '79) is working as a geophysicist with Union Oil Company of California in Midland.
- E. R. Lochte, Jr.** (BS '56) is an independent petroleum geologist in San Antonio.
- Allan C. Locklin** (BS '54) is president of Locklin Oil Company in Tyler. “Nancy and I established a medical research foundation for Vitiligo which is a pigment loss skin disorder. The National Vitiligo Foundation, Inc. has information available and needless to say we would appreciate any donations. Our son, Chris, and his wife have returned from Djakarta. We are enjoying our three granddaughters by our daughter, Lee Ann, whose husband, Scott, is a geologist.”
- Kenneth J. Loep** (BS '60), president of American National Petroleum Company in Houston, writes, “Iris and I continue to enjoy the big city life and will celebrate our 28th wedding anniversary in August.”
- John L. Loftis, Jr.** (BS '40) resides in Houston where he is an independent geologist.
- Kevin Logan** (BS '83) is employed by the Houston Oil Fields Company as a geologist in Houston.
- Alan Lohse** (PhD '52), a consultant in Hot Springs, Arkansas, says he is “sufficiently busy with prospecting and land use plans.” He is vice chairman, state chapter, of the Society of Mining Engineers of AIME.
- John Michael Long** (MA '78) is a district manager with Placid Oil Company in San Antonio.
- Susan A. Longacre** (BS '64, PhD '68) is a senior research consultant with Texaco's Houston Research Center. “The research lab is a great place to be involved in applied and some basic research. We have gotten out into the field several times this year, and that's all to the good.”
- E. William Longmire** (BS '50) is retired and lives in Carrollton, Texas. He says, “This retirement is great—golf, trout fishing and more golf.”
- Stephen E. Lovell** (BS '82) is a graduate student in the Department of Geology at Texas A&M.
- Carol MacDonald Lucas** (BS '74) is a staff geologist with Transco Exploration Company in Houston. She reports, “Still doing regional geology in the Gulf of Mexico using seismic stratigraphic techniques. Expecting our second child in the fall. Chuck and Justin are fine.”
- Lester E. Ludwick** (BS '50) retired from El Paso Natural Gas Company's Reservoir Engineering Department. Les plans to keep active by doing some consulting work.
- Paul D. Lundegard** (PhD '85) is employed as a research geologist with Union Oil of California in Brea and is “pleased to be able to work on Gulf Coast diagenetic problems as well as those in more exotic places like Thailand.”
- Pamela E. Luttrell** (BA '73, MA '76) is a senior staff geologist with Mobil Oil Corporation in Dallas and writes, “All is well. I'm currently assessing opportunities in China. I am not sure which is more complex—the geology of Asia or the politics of oil companies.”
- Vance M. Lynch** (BS '51) reports he has “just been promoted to a vice-president position at Unocal's Research Center in Brea, California, so I will be moving back to California after a four-year stint in my home state of Texas.”
- James I. Lyons** (BS '71, MA '75) is an exploration geologist with Chevron Resources in Reno, Nevada. “I'm still in mineral exploration in spite of the present slump and focusing on gold as are most people these days.”
- Reynaldo E. Macedo** (MA '69) is exploration supervisor, Europe, for Mobil Exploration and Producing Services in Dallas. He, his wife, and three sons, are doing fine in Dallas. “Greetings to the geological faculty, staff, as well as the MA's of the class of 1969!”
- Marcie D. Machenberg** (MA '82) is a data processing administrator and has started GO-FER GOLD Company in Telluride, Colorado. She offers gold panning excursions and geology tours to tourists and locals. She still maintains her job at the Visitor's Information Center and continues to enjoy Telluride's beauty and lifestyle.
- Gabriel Macias** (BA '82) works for the Railroad Commission of Texas as an engineering technician and field inspector in Houston. He has co-published a recreational map titled, “South Central Texas,” inspired by 320K.
- Bruno Maldonado** (BS '82) is employed by Sun Exploration and Production as a staff geophysicist in Dallas. He reports, “Exploring for oil and gas prospects in the Arkoma Basin—Oklahoma, the Marietta and Ardmore Basins, as well as the eastern part of the Anadarko Basin.”
- Karl A. Maley** (BS '56) is an attorney and resides in Smithville, Texas, with his wife and two daughters.
- Vaughn C. Maley** (BA '26) retired from Exxon Corporation and lives at Manor Park, a retirement center in Midland, where he works with the management as an ex-officio board member. When time permits he plays golf and travels.
- W. Archer Maley** (BS '25) is enjoying retirement in Smithville, Texas. He and Sylvia just celebrated their 60th wedding anniversary.
- Jack Mangum** (BS '59) is a representative for Government Small Business in San Antonio.
- Robert Denys Manson** (BS '76) resides in Corpus Christi where he is vice president



Department executives direct Lagoven Exploration in Venezuela. Pictured during a meeting in Caracas in May, 1986, are:

Left to right: Freddy Chiquito (MA '70), Exploration Manager; Hildebrando Martell (MA '70), Head of Geology Department; Lucas G. Zamora (MA '68), Exploitation Manager; William L. Fisher, Chairman Department of Geological Sciences; Daisy Perez de Mejia (MA '77).

for Crescent Petroleum Corporation. He is "plugging away, unfortunately the plugging is usually happening to my latest drilling prospect. Mom was right, I should have been a doctor."

George W. Marshall, Jr. (BA '48) is enjoying retirement in Houston and says, "Regards to all and thank you for the *Newsletter*."

Sabin W. Marshall (BS '52) resides in Houston where he is a geology manager with Texas Gas Transmission Corporation. He writes, "One daughter is married, another at home in high school."

Bethea Allen Martin (BS '36) is a petroleum consultant in Houston and writes, "Oil industry belt tightening opens new opportunities in the consulting areas. The international scene is still the best and most fun."

Jeffrey G. Martin (BS '84) is the president of Martin Energy Company in Mandeville, Louisiana.

David F. Martineau (BS '60) is an exploration manager with Pitts Oil Company in Dallas. "President Reagan's insistence on free market principles in a market which is not free, strikes me as uninformed response or short-term political opportunism, or both. The world oil market is not free but controlled by government-owned oil producers with predatory pricing practices. This puts an intolerable burden on our oil industry and the future of geologists."

Louis M. Martinez (BS '54) is employed by Apache Corporation as a senior exploration geologist in Houston. He reports, "My son is a member of the Longhorn band so

we've seen a lot of football games. Would like to visit with old classmates at the Alumni Center next fall. See you there."

Paul A. Martinez (BS '84), a graduate student at Stanford University, is currently working on three-dimensional computer simulations involving erosion, transport and deposition of sediment along linear clastic shorelines. Emphasis is the simulation of deltaic and barrier bar systems.

Michael J. Mattalino (BS '81) is an exploration geologist in Houston.

Lamar B. Maxwell (BS '60, MA '61) resides in Devers, Texas, where he is a partner with Maxwell Brothers.

Paul Randolph Mayo (BS '50) is an independent geologist in Abilene and writes, "My family and I are in good health. Better times are coming, the Feds and OPEC are setting us up for a semi-boom."

Donald L. McAlpin (BS '57) is employed by Bell Helicopter Textron as an engineering specialist in Ft. Worth and spends most of his time "working on the V-22 project and being a grandpa."

John McNulty (BS '78) is a geologist in Houston and is currently consulting for Kriti Exploration.

Robert L. McBroom (BS '51) is a consulting geologist in Wichita Falls. "Well, it's back to beer and pretzels."

Wm. E. McBroom (BS '40) is retired and living in Vernon, Texas. He writes, "No news is good news."

Mack McCarter (BS '84) is an exploration geologist with McCarter Energy in Houston.

Thomas B. McCarthy (BS '77) is employed by Champlin Petroleum Company as a staff geologist in Houston.

Michael B. (BS '80) and **Janet Christesson McCleery** (BS '78) live in Midland where Mike is a geologist with J.M. Huber Corporation and Janet has the privilege of staying home and caring for their young son.

Leonard F. McCollum (BS '24), retired chairman of Continental Oil Company, resides in Houston.

Megan M. McCrary (MA '85) works as a geologist for Standard Alaska Production Company in Anchorage. "Prudhoe Bay is definitely the 'cadillac' of oil fields and has spoiled me."

Carew McFall (BS '50, MA '52) is self-employed in Los Altos Hills, California, and says, "I'm happy to be in metals exploration and have a good home and wife. My best to UT classmates."

Edward McFarlan, Jr. (MA '48) resides in Houston where he is employed as a senior geological scientist with Exxon Company U.S.A. "My current work on the application of new concepts provides a rewarding challenge."

Bill J. McGrew (BS '54, MA '55) resides in Mena, Arkansas, where he is a cattleman and part-time consultant.

Wayne E. McIntosh (BS '56) retired from the Corps of Engineers and is now consulting in Dallas.

Charles Edward McKemie (BS '79) is an exploration consultant in Dallas.

William R. McKinley (BS '78) is a project director at Conoco, Inc. in Houston.

W.N. (Mac) McKinney, Jr. (BS '60, MA '63) is employed as offshore manager with Sonat Exploration in Houston and writes, "I'm just finishing my term as president of the Houston Geological Society. It has been a great learning experience but it's good to see the year coming to an end."

L.A. McLaurin (BS '58) is in international sales with Polaris Equipment, Inc. in Houston.

David A. McMahan, Jr. (BS '74, MA '77) is pursuing a PhD in geology at Texas A&M University.

Jude McMurry (MA '82) is a graduate student at Texas Tech. "Let me wait till next year - maybe by then the news will be better!"

Jerald E. McQueen (BS '61, MA '63) is the vice president of Medallion Oil Company in Houston.

A.D. McRae (BS '42) is retired and has temporarily relocated from New Orleans to Dallas. "Retirement exceeds expectations."

William J. Meek (BS '55) resides in Arlington where he is the owner of W.J. Meek Insurance Agency. "Just returned from the sunny Bahamas, what gorgeous corals out there. Still busy with the insurance agency and gasoline retail sales. Will retire from the Naval Reserve in July but remain active in U.S. Naval Academy recruiting. Good luck to all until next year."

- Peter Megaw** (BA '76, MA '79) a consultant in the U.S. and Mexico reports, "Almost finished with my PhD at the University of Arizona in Tucson. Best of luck to those remaining in geology."
- Bob Merrill** (PhD '74) is a geology professor at California State University in Fresno. "Currently working with Pliocene tidal flat, tidal channel and seaway deposits on western margin of San Joaquin Valley. Enjoyed seeing many UT exes at SEPM last summer in Golden, Colorado."
- Mario L. Messina** (BS '59, MA '62) is chief executive officer for Messina Inc. in Dallas. He reports, "Despite falling oil prices we seem to be holding our own worldwide."
- Charles A. Micheli** (BS '52), retired and living in Daytona Beach, Florida, says he is "resting easy and playing a lot of golf."
- Harry A. Miller, Jr.** (BS '41), an independent geologist in Midland, is "taking my licks in '86."
- Richard A. Mills** (BS '50) resides in Houston and is the vice president of Felmont Oil Corporation. His son, Joe, and daughter, Linda, both graduated from UT Austin.
- Robert J. Moffatt** (BS '41), a petroleum consultant in Shreveport, writes, "Now enjoying a bumper crop of grandchildren - eight at last count. Turned in my ticket on the Titanic in order to get into the oil and gas business - should have kept the ticket. Have considered taking an Arab home to lunch to see if that will help."
- James R. Moffett** (BS '61) resides in New Orleans where he is chairman and CEO of Freeport-McMoRan Inc. He writes, "Louisiana, like Texas, is reeling in the path of volatile oil prices, but we're ready to look ahead to the 'new era'. Hope everyone is as creative now as they were in the early 70's when we overcame the Arab embargo; if so, we'll have plenty of places to apply all the good talent and training that began at UT. Tell the new students we're looking for a new generation of ideas."
- Wayland P. Moody** (BS '54), an operations engineer with Northwest Resources in Dallas, "will be married to a grandmother very soon."
- Charles Gardley Moon** (BS '40, MA '42, PhD '50) has retired from Exxon and is living in Houston.
- R. McKay Moore** (BS '52) is an independent geologist in Shreveport.
- Ross Moore** (BS '48) is a geologist in Midland.
- Sara F. Moore** (BA '79) lives in Dallas where she is a district geologist with Wessely Energy.
- Terry Lee Moore** (BS '80) is a staff geophysicist with Cities Service Oil & Gas Corporation in Midland and says, "Beverly and I are extremely busy at our respective offices. I am having a wonderful time coaching my daughter's softball team. Our son, Cyrus, enjoys riding his rocking horse. Up with oil prices!"
- Robert E. Moran** (PhD '74) is a consulting hydrogeologist in Golden, Colorado, working primarily on water geochemistry related to hazardous wastes and litigation support.
- Duane E. Moredock** (BS '58) is self-employed as a consulting geologist in Denver.
- Marian Morris** (BS '81) is a production geophysicist in Houston.
- Michael B. Morris** (BS '47), a consultant and board member, writes, "There is very little good news in the oil business anywhere and especially in Houston."
- Susan J. Deutsch Morris** (BS '70) is self-employed as a consulting geologist and paleontologist in Houston. Susan was the president of Gulf Coast Section SEPM this past year and says "It was a challenge."
- David W. Morrow** (MA '70, PhD '73) resides in Calgary, Alberta, where he is a research scientist at the Institute of Sedimentary and Petroleum Geology. David hopes to see old friends at SEPM in North Carolina where he "will entertain you with fables concerning dolomitization."
- John Murphy** (BS '85) is an environmental inspector for the city of Austin and says, "I'm glad I didn't go into oil."
- Pat J. Murphy** (BS '53) is employed by the Neumin Production Company as a staff geologist in Pt. Lavaca, Texas.
- Robert Murray** (MA '85) lives in Las Vegas where he is a hydrogeologist with Fenix & Scisson, Inc.
- Robert T. Muzny, Jr.** (BA '71) is an environmental specialist with the U.S. Army Engineer District in Galveston and enjoys attending UT sports events when possible.
- Heide J. Nast** (BS '79) is a PhD candidate in geography at McGill University in Montreal, Quebec. She writes, "Present research is in small-scale mining and development of clay minerals for the building materials industry in developing countries."
- Mary Karen Nelis** (MA '84) is employed as a geologist with Research Planning Institute in Boulder.
- Allan Nelson** (BS '47) maintains his consulting office in Denver and is happy to report "The class of '47 will have its second reunion this summer at the Clarion Hotel in Colorado Springs."
- W.B. Newberry** (MA '52) resides in Austin where he is a partner and president of Kugler-Newberry Operations.
- David Nilsson** (BS '61) is employed in the math department at UT Austin.
- Dave Noe** (MA '84), research geologist with RPI, Inc. in Austin, will be reorganizing their operations and moving them to Houston and Boulder. He comments, "I always contour better in that thin mountain air."
- Ron Nordquist** (MA '72), employed by Tenneco Oil as a senior geological specialist in Denver, is "still doing structural exploration work in the Rocky Mountain Foreland Basins." Ron's two-year-old daughter "seems to be a perpetual-motion machine at times!"
- Isaac W. Norman** (BS '48) resides in Houston where he is executive vice president for Bishop Petroleum Inc.
- Susan Stone Norman** (BS '76), a consulting geologist in Duncanville, Texas, announces the birth of her daughter, Jenna Clare, born last May.
- A.P. Noyles, Jr.** (BS '55, MA '57) is the owner of Pete Noyes, Inc. & PNI Production in Metairie, Louisiana.
- John F. O'Donohoe** (BS '50) is president and CEO of Coastline Exploration, Inc. in Houston.
- A.M. Olander** (BS '48), exploration scientist with Exxon Company U.S.A. headquarters staff in Houston, will retire in August after 38 years. "My career has been both challenging and fun."
- Bill Oliver** (BS '68, MA '70) lives in Lafayette where he is an independent geologist.
- David M. Orchard** (MA '79), senior geologist with BHP Petroleum Americas Inc. in Denver, is happy to announce the birth of Ellen Elizabeth born in March.
- John S. Orr** (BS '59) is employed as a division exploration manager with Ladd Petroleum in Billings, Montana.
- R. William Orr** (MA '64) is chairman of the department of geology at Ball State University, Muncie, Indiana.
- John Osmond** (BS '47) resides in Englewood, Colorado, where he is a consulting geologist.
- Jeff Ottmann** (BS '77), staff geologist with Exxon Company U.S.A. in Houston, reports, "Baby No. 1 is on the way and should arrive about the time the Newsletter is published. You will have to wait until next year to find out what it is."
- Robert D. Ottman** (BS '51), a Gulf Coast division geologist with Exxon in Houston, writes, "Hard to believe I graduated 35 years ago. Time passes quickly when you're having fun."
- Philip M. Oviatt** (BA '78) lives in Houston and is employed with Champlin Petroleum Company as an exploration geophysicist.
- Donald E. Owen** (MA '51) is a professor of geology at Indiana State University in Terre Haute.
- Robert M. Owens** (BS '51) resides in Houston where he is an independent geologist.
- Laurence Page** (BS '84) is pursuing his doctoral studies at MIT in Cambridge, Massachusetts. He remarks, "I am doing research in the Arctic Swedish Caledonides."
- Howard W. Parker** (BS '49), retired and living in Austin with wife, Jane, is catching up on golf, tennis and traveling.
- Gaston H. Parrish** (BA '20) has retired and lives in Corpus Christi. He writes, "Time marches on. Halley's Comet has appeared twice in my lifetime. As a small boy in Victoria, in 1910, on a clear night one had a spectacular view of the elongated comet in all its beauty and awesome sight. I was afraid the world was coming to an end as did many others."
- J.F. Patterson, Jr.** (BS '52) is a consultant in

- Bellaire, Texas.
- Joseph E. Patterson** (MA '83) is employed by Mobil Oil Corporation, Rocky Mountain Group, as a production geologist in Denver.
- Jacob L. Patton** (BA '32, MA '32), a self-employed consultant, lives in Tyler with his wife, Edith, and will celebrate their 50th wedding anniversary this year.
- Tom S. Patty** (MA '68) is a consultant/director of Austin Operations for Erlin, Hime Associates and writes, "Work includes petrographic studies of concrete, cements and allied construction materials. JoAnn and I have spent 26 years in Austin and our two older children are married; our youngest is almost out of high school. We have one grandson."
- Bill R. Payne** (BA '40), retired and living in Houston, reports, "Having been a widower for almost four years, I plan to remarry before the present *Newsletter* is published."
- Jack L. Penick** (BS '42), president of Penick Energy in Houston, is semi-retired and likes "working and playing at my own convenience."
- Charles S. Percy** (BS '43), retired and living in Austin, reports, "Bad health still giving me trouble. Just recently cracked a pelvic bone, lucky it didn't break. Austin is getting too big—hard to get on campus anymore."
- Stephen G. Petmecky** (BS '85) is employed with Martech, Inc. in Morgan City, Louisiana, where he is involved in all phases of oil field diving operations.
- Ben J. Petrusek** (BA '42) is retired and enjoying good health in Metairie, Louisiana.
- Scott Petty, Jr.** (BS '60, MS '61) is chairman of the board of Pioneer Flour Mills and was recently appointed to the executive committee of the Chancellor's Council of the UT System.
- Van A. Petty, Jr.** (BS '40, MA '41) resides in San Antonio where he is an independent geologist. "The *Newsletter* gets better every year. Always look forward to reading about my old classmates."
- Phil M. Pitzer** (BS '54) is an oil operator in Breckenridge, Texas. He states, "Ten dollar oil says it all!"
- Jack Phillips** (BS '49), who retired from Cities Service Company several years ago, lives in Houston. He notes, "After 33 years with Cities Service Co. am doing consulting and lots of hunting and fishing."
- Mike Plamondon** (MA '75) is employed with Meridian Oil as a senior staff geologist in Englewood, Colorado.
- William A. Poe** (BS '48), a senior exploration geologist in Houston, reports, "Had a good time in Austin during the GCAGS convention seeing a lot of old friends. Best regards to all in the department."
- Nick Pollard** (BS '84) is a graduate student at the University of Houston where he is working toward a master's degree in geology.
- Morris E. Pollock** (BA '62) resides in Phoenix, Arizona, where he is the president of Marrock Petroleum Exploration, Inc. "Youngest son graduated from Baylor this year, daughter working on her PhD in Spanish at the University of Indiana. Retrench and survive is the name of the game in the oil business."
- J. Eric Pressler** (BS '68) is a staff geologist with North Central Oil Corporation in Houston.
- Ron R. Pressler** (BS '76) lives in Houston and is employed with Amerada Hess Corporation, southern states, as a senior professional geologist.
- Luke Primrose** (BS '83) is an advanced engineering technician with Marathon International Oil Company in Houston. "I invite old friends to see us in Pearland, and we can pray for higher oil prices together. Regards to Dr. Jonas."
- John L. Proctor** (BA '50), a petroleum engineer in Dallas, writes, "My oldest daughter will enter UT this fall."
- A. Leo Pugh** (BS '52), vice president of Gulf Coast Geo Data in Houston, says, "Family is doing well and one son is out of college now."
- Victoria J. Pursell** (MA '85) works as a geologist in Exxon's production department—offshore division in New Orleans.
- Stan Pyndus** (BS '50), vice president of Range Oil Corporation in Houston, reports, "still drilling in south Texas."
- James F. Quinlan** (PhD '78), a research geologist with the National Park Service in Mammoth Cave, Kentucky, presented a paper at the International Symposium in Turkey and was also an invited speaker in Italy. He had a quadruple bypass in January, 1984.
- Walter K. Rainbolt, Jr.** (BA '57) is the president of Dynamic Exploration, Inc. in Lafayette.
- Clyde M. Rascoe** (BS '49) resides in San Angelo, Texas, where he is the president of Merit Oil Company.
- W. A. (Al) Ratcliff** (BS '50) lives in Houston and "got caught in a big layoff so decided to retire. Plan to move to the Lake Livingston area and do some fishing. Best regards to all my friends."
- M. Allen Reagan** (BA '50), retired and living in Houston, writes, "doing a lot of hunting and fishing in places like New Zealand."
- Mrs. Robert Crim Redfield** (BA '37) resides in Austin.
- Chris Reed** (BS '74) is a partner with Reed & Strawn Exploration in Tyler. He is celebrating his fourth year in business as an independent operator. "My family is doing well in the deep pineys of east Texas."
- Scott C. Reeve** (BS '70) works for Shell Offshore as a staff geologist in New Orleans.
- H. Clay Reichert** (BA '38), an exploration geologist in Lafayette, says, "When the rig count goes down, I work a little harder."
- Jeffery C. Reid** (MA '73) is a senior research geologist with Arco Resources Technology in Plano.
- Charles B. Renaud** (BS '49, MA '50), an independent geologist in Midland, writes, "Just like Darwin said, survival is the key. That's what we are trying to do out here in west Texas. Those of us with 30 years in the industry have had plenty of practice in the survival game."
- James V. (Jim) Richards** (BS '56) resides in Houston where he is employed as a consultant with Genesis Petroleum. "Most of us see a brilliant future for the oil finders who can weather the storm. Our Christmas store chain has grown to four, with the flagship operation in Austin."
- Frank M. Richardson** (BS '57), president of Era Consulting Company in Houston, reports, "Despite the bad economy, Era had its best year ever in '85. Jean and the children all doing super."
- Harold Gene Richardson** (BS '57) is an advisory marketing representative for IBM Corporation in San Antonio and writes, "Can't believe it is almost 30 years since graduation. Still enjoy hard-rock geology as a hobby."
- Bernd C. Richter** (MA '83) is a research scientist associate with the Bureau of Economic Geology in Austin.
- Brian Richter** (BS '78), a partner with Church Richter Energy in Denver, "welcomed a baby girl, Amy, to our family last year."
- Gary Richter** (BS '79) is employed as a project geologist with Columbia Gas Development in Houston.
- Wade C. Ridley** (BS '53, MA '55), president of Ridley Oil Corporation in Tyler, is still "trying to work east Texas during these perilous times. Elder son, Tom, works with me as a landman; younger son, Clark, completes his M.D. in May. Mary and I just getting older—hopefully wiser."
- Frank Wm. Rife, Jr.** (BS '50) is retired and living in Irving, Texas.
- Raymond A. Riley** (BS '40) resides in Houston where he is retired.
- Alexander (Zan) W. Ritchie** (MA '69), associate professor of geology at College of Charleston in South Carolina, reports, "Still working on faults in Honduras, with Ric Finch and checking geothermal sites with Bob Fakundiny and Grant Heiken. Hope to see everyone in San Antonio regardless of light travel budgets."
- Virgil H. Roan** (BS '49) manages the Roan Royalty Company, Inc. in Ardmore, Oklahoma. He and Madeline have two grandchildren.
- Jack S. Roberts, Jr.** (BS '60), vice president of Great Southern Life Insurance Company in Houston, says, "The world of financial management continues to be dynamic, challenging and interesting."
- John D. Roberts** (BS '73) is a region technical services manager with NL McCullough in Houston.
- Susan M. Roberts** (BS '85) is a graduate student at the University of Southern

- California in Los Angeles.
- Roland S. (Rock) Robertson** (BS '55, MA '56) resides in Corpus Christi where he is a consultant with First Rock, Inc. He still enjoys the oil business "in spite of its ups and downs. Children and grandchildren keep us busy."
- Dianne Marie Robin** (BS '82), a senior geologist with Exxon Company U.S.A. in Houston, is "working the upper Texas Gulf Coast formations, particularly Upper Frio in Friendswood and Clear Lake fields. Weekends are spent with the Sports Car Club of America."
- Ron S. Robinson** (BS '58), partner in Robinson-Buchanan in El Dorado, Arkansas, reports his "Son, Jeff, graduated from LSU in Russian studies and is now an officer in the Navy. Daughter, Adrienne, is a graduate student in theology in Nashville. Paige is a senior at LSU. Real estate and cattle business holding up fine."
- Harlan H. Roepke** (PhD '70) is a professor of geology at Ball State University in Muncie, Indiana. "Judy is the associate dean of Applied Sciences, and I have gotten involved in local environmental consulting projects. The kids are doing well in college."
- Martin Romanak** (BS '84) is a part-time employee with Pursuit Energy Corporation and also enrolled at UT Arlington, working towards a master's degree in geology.
- Robert Brooks Ross** (BS '50), an explorationist with Partner Oil Company in Houston, writes, "Have numerous low-moderate risk prospects in lower Tuscaloosa Trend of Mississippi. Need investors."
- Rollins M. Roth** (BS '58) is employed by Delta Oil & Gas Company as a production superintendent in Breckenridge, Texas.
- Peter D. Rowley** (PhD '68), a geologist with the U.S. Geological Survey in Denver, expects "to go to Antarctica during the '86-'87 winter."
- W. Wayne Roye** (BS '51) is an independent petroleum geologist in Midland.
- Ann Joyce Ruby** (BA '48) resides in Austin and writes, "Someone in the family is into rocks—my husband and son are in the rock crushing business. Traveled to Austria and Germany and saw the dolomites of northern Italy. Would love to hear from old classmates."
- John S. Runge** (BS '50) is a consulting geologist in Casper, Wyoming.
- Carolyn Rutland** (MA '79) is an assistant professor of geology at Western Michigan University in Kalamazoo. She is "working on geochemistry of volcanic and plutonic rocks in southwestern Montana."
- P. Martin Sander** (MA '84) joined the University of Zürich in the spring of 1985, and is working towards a PhD in Vertebrate Paleontology.
- Jack S. Sanders** (BS '57), a petroleum geologist in Dallas, reports, "It's great to be back in Texas after many moves."
- James W. Sansom, Jr.** (BS '63) is a geologist with the Texas Railroad Commission and resides in Austin. "Staying busy reviewing surface coal mining applications. Fortunately, my work has not slowed down like in the oil business."
- Napoleon Otero San Vicente** (Att. 63-65) resides in Coahuila, Mexico, and works as an independent field geologist with Servicios Geológicos y Agronómicos, S.A. "For multiple reasons I remember all of you with the highest appreciation. I hope some day you will visit me in this pretty and vast region. Please accept my best wishes and best regards."
- Vickey Price Sare** (MA '81), an area geologist, California Onshore, with Arco Oil & Gas Company in Bakersfield, says, "Hello to all my dear friends in Austin. I have moved into the trenches for the duration. Visitors are welcome and encouraged."
- Jack R. Schmid** (BS '51), vice president and general manager of Saab Oil & Gas Inc., lives in Dallas.
- George W. Schneider** (BS '57), an independent geologist enjoys living in Austin "because of the University, climate, people and multitude of golf courses."
- Tom Schneider** (BS '50, MA '51) resides in Midland where he is self-employed.
- Paul E. Schnurr** (MA '55) is a consulting geologist in Concord, California. Paul reports, "Even with bad times in the oil industry, there is enough doing to keep life interesting."
- Milt Scholl** (BS '47, MA '48), a junior high school teacher in Chula Vista, California, writes, "Welcomed our first grandchildren this year. Freda and I are looking forward to Expo '86 in August."
- Clarence C. Schroeder** (BA '40) is retired and living in San Antonio, "still trying to stop old father time from moving so fast and recapture those elusive younger years."
- Fredrick E. Schultz** (BS '47) is a manager and assistant to the president with Pauley Petroleum Inc. in Los Angeles. "Moved from Houston to California where Lois supervised the building of our retirement home that she designed."
- Rubin A. Schultz, Jr.** (BS '61) is a maintenance superintendent with the Department of Highways in Corpus Christi.
- Jerry W. Schwarzbach** (BA '83), a medical student at Baylor College of Medicine in Houston, will "probably pursue a career in pediatrics."
- T.J. (Jerry) Schwarzbach** (BS '58, MA '61) resides in Shreveport where he is a consulting geologist.
- Christy M. Schwiekhardt** (BS '83) is an exploration geologist in Houston and is employed by American International Energy Corporation.
- Eugene P. Scott** (BS '56), an independent petroleum geologist in Corpus Christi, is "looking for another big one."
- John E. Seale** (BS '41) is a consultant in Houston.
- Louis Sebring, Jr.** (BS '41, MA '47) resides in Corpus Christi where he is an independent consulting geologist and says, "Nothing new to report. Haven't been back to Africa and haven't seen any lions locally either."
- Earl W. Shahan** (BS '56) is an exploration manager with Exxon Company U.S.A. "Have been back in Corpus Christi for a year and love it. The fishing has been great."
- William (Bill) W. Sharp** (BS '50, MA '51), consulting geologist/investor in Dallas, reports, "graduated to the 'golden years' and they are the best. Nice to have been selected in this year's edition of *Who's Who in the South and Southwest*. Oldest daughter is finishing law school; youngest is a pre-med student."
- Stephen L. Shaw** (BS '71, MA '74) lives in Midland and is employed with Meridian Oil as a senior staff geologist. His wife, Nancy, teaches nursing at Midland College and their two children "keep everyone busy."
- Don B. Sheffield** (BS '58), president of Geosource, resides in Houston.
- F. Carlton Sheffield** (BS '63), a division exploration manager for Tenneco Exploration & Production, writes, "still in Lafayette. Many of our old friends have left, so if you are coming our way, stop in for plenty of good Cajun food."
- Robert A. Sheldon** (BS '37) is retired and living in Austin. His summer address is Pyramid Court, Route 1, Livermore, Colorado. "I had extensive surgery last year and doing fine now."
- Wm. K. Sheldon** (BA '48), chief geologist with T-C Oil Company in San Antonio, writes, "more grandchildren due in May. Too bad we can't tie the price of crude to some kids' reproductive capacity."
- Wm. T. (Bill) Sherman** (BS '51), self employed, is "still showing and selling in Houston in the oil business."
- Robert L. Sherrill** (BS '80) is a senior geologist with Jones & Neuse, Inc. in Austin. "Van and I finally built our house in the hill country near Hamilton Pool. We are expecting our first child in September."
- Elgean C. Shield** (BS '53), president and CEO of Shield Development Corporation in Houston, continues to search for oil and gas in the Gulf Coast. "Son, Mark, is a geology student at UT and will enter the oil business next year at a time of great opportunity."
- Charles Sicking** (PhD '80) lives in Plano, Texas, where he is a research geophysicist with ARCO.
- A. E. (Slim) Simmons** (BS '51) retired from Union Texas and resides in Midland. Slim reports, "Still do some consulting but there's not much action out there."
- Kathy (Fernald) Simpson** (BS '82), a geologist with Sonat Exploration Company in Houston, was married last year.
- Samuel J. Sims** (MA '57) resides in Bethlehem, Pennsylvania, and reports "Since I retired from Bethlehem Steel Corporation, I now

- do consulting work with the limestone industry."
- R. Sam Singer** (BS '61) is manager of reserves and acquisitions for Pennzoil Exploration and Production Company in Houston. He reports that "life could be better if the price of oil would sit still. Industry is taking it on the nose. We need to find more elephants."
- Harry Sisson** (BS '40) is a consulting geophysicist at Harry H. Sisson, Inc. in Houston.
- Fred A. Skidmore, Jr.** (BS '56), president of Controlled Stimulation and Production in Dallas, has "developed techniques to vertically drain methane from coal beds ahead of mining coal, rendering the mine safer, and also developing another source of income by selling the produced methane."
- Diana Slagle** (BS '84) is employed with the U.S. Geological Survey as a hydrologic technician in Austin.
- William P. Slater** (BA '50), an independent from New Braunfels, writes, "working west Texas from the hill country on the prettiest lake in Texas."
- Marriott Wieckhoff Smart** (BS '57) is supervisor of Cyprus Minerals Company's library information center in Englewood, Colorado. "Cyprus is an exciting company and intends to be a survivor in the mining industry. Since the company diversified into coal, industrial minerals, copper, moly and gold, my job has been great fun."
- Tommy T. Smiley** (BS '51), program manager for Defense Mapping Agency in St. Louis, Missouri, will be "retiring this year and looking forward to spending winters in south Texas."
- Anne Smith** (BA '83) is a geological consultant for Austin Oil and Mineral Company. She is taking a hydrology course at UT and lives in "the booming metropolis of Buda, Texas."
- A. Richard Smith** (BS '64) is director of energy and mineral resources for Olin Corporation in Houston and writes, "What goes down must come up—at least I hope the oil business will. Funeral homes are less cyclic but not nearly as much fun."
- Bruce Dixie Smith** (BS '58), partner with Fulbright & Jaworski in Houston, is "practicing admiralty law, however, my geology education has been a great benefit, particularly in handling offshore drilling cases."
- Charles Smith** (BS '78) is a geology graduate student at Stephen F. Austin State University in Nacogdoches.
- Charles E. Smith** (BS '54) resides in Dallas where he is a consultant and also works in real estate.
- Daniel L. Smith** (BS '58), executive vice president and exploration manager for Texoil Company, lives in Houston.
- Harry L. Smith** (BS '51, MA '56), an oil operator in Boerne, Texas, says, "Due to the present climate in the oil business I am beginning to feel a little dinosaurish. In a few years my kind might become extinct."
- Michael Blake Smith** (BS '84) works as a geophysicist with Unocal, Corporation in Houston.
- Paul K. Smith** (BS '84), a waterpark area manager for Fame City Water Works in Houston, writes, "I just bought a surfboard and am going to spend all my days off at the beach."
- Schaun M. Smith** (BS '79) is a graduate student at Louisiana Tech University. "Have been teaching a physical geology lab and this summer will be an instructor on the field camp in Colorado. Melinda and Zack are doing fine."
- Brian M. Smyth** (BS '76) is employed as a geologist with Northwind Exploration in Houston.
- E.D. Sneed** (MA '55) resides in Houston where he is the exploration manager, Gulf Coast and Offshore Region, for Marathon Oil Company.
- John L. Snider** (MA '55), a hydrologist in Pineville, Louisiana, plans to retire this year.
- William C. Sojourner, Jr.** (BS '54) is the president of Sojourner Drilling Corporation in Abilene.
- Stephen W. Speer** (MA '83), geologist with Yates Petroleum Corporation in Artesia, New Mexico, reports, "Therese and I have two beautiful little girls and life's been A-ok so far. Will be leading an AAPG field trip this spring and looking forward to visiting Austin."
- Fred Spindle** (BS '49), vice president of exploration with Marathon Oil Company in Houston, writes, "When I started there were hard times and the system survived. As for me, I think I'll call the dogs, set the slips and retire. I wish all of you and the University well."
- William Spindler** (MA '77) is employed as an area supervisor with South Alaska Exploration in Houston.
- Scott Dunbar Spradlin** (BS '75, MA '80), exploration geologist with Exxon's Gulf Atlantic Division, "moved to the Exxon Ghetto (Kingwood) and love it. Has anyone seen or heard from Jon Herwig?"
- Richard Stancliffe** (MA '84) is an associate geological engineer with Shell Western Exploration and Production in New Orleans.
- Johnny F. Stanford** (BS '49) resides in Austin where he is an independent geologist.
- Ann Marie Stanley** (BA '44), vice president in the geological department with Miles Production Company in Dallas, is hoping "oil prices will stabilize."
- Theodore E. Stanzel** (BS '56) will retire this year as senior area manager from Transco Exploration Company in Houston.
- Ann St. Clair** (MA '79), employed by Radian Corporation in Austin, writes, "It's been a busy year in Sacramento. The hazardous waste/groundwater business has kept us at a dead run. Although California was great, it's hard to beat the hill country, Lake Travis and Tex-Mex food."
- Frederick L. Stead** (MA '50) is a consulting geologist in Dallas.
- Walter Stein** (BA '52, MA '52), an independent in Dallas, writes, "still hunting oil in north Texas."
- Sheree Lynn Stewart** (BA '84), employed by HDR Techserv as an environmental scientist in Santa Barbara, California, is "engaged in research for environmental impact assessments associated with municipal waste incinerators and cogeneration plants. Enjoy hiking and exploring the mountains around the San Andreas fault zone."
- Preston A. Stofer** (BA '57), vice president of Surface Oilfield Supply in Rockport, Texas, says "Ouch, no need to comment on business on the Gulf Coast."
- William T. Stokes** (BS '50), vice president for King Ranch Oil & Gas, Inc. in Dallas, is "gratified to observe the quality of the faculty and the students at UT in the geology department, and it has been a great pleasure serving on the Geology Foundation. Our son, Brad, is a student at UT; son, Bill, is a landman for Enserch. Fifi and I are planning a trip to Scotland to play golf on the Scottish golf courses."
- Winston L. (Skip) Stokes** (BA '57) is a land manager for Tenneco Oil Company in Houston. "Am assigned to the division acquisition department as it is currently cheaper to buy production than it is to drill. Daughter is married and working for Exxon."
- David B. Story** (BS '78), a frontier production manager for Exxon Company U.S.A. in New Orleans, is "finding the inland portion of the eastern U.S. a challenging exploration experience."
- Michael W. Strickler** (BS '78) resides in Houston where he is a manager for Trafalgar House Oil & Gas.
- Carroll Stroman** (BS '58) lives in Sweetwater, Texas, where he is the owner and CEO of Bitter Creek Farm which is a residence for mentally retarded adults. He also consults for Covenant Growers Inc., a sheltered work program for developmentally disabled.
- Eric M. Stroud** (BA '81) is a partner with Herbert Minerals in Fort Worth.
- Hal Stubblefield** (BS '54), vice president of exploration for Mosbacher Energy Company in Houston, reports, "still operating and taking deals."
- Paul D. Suddath** (BS '76) is an independent geologist in Abilene.
- Daniel F. Sullivan** (BS '42) is retired and lives in Hallettsville, Texas.
- Mark Suneson** (MA '84), exploration geologist with Enserch Exploration in Denver, reports, "A rock-solid marriage began on 3-29-86 when I married Susan Cook, who is completing her master's degree in geology at UT."
- Eric Swanson** (MA '74, PhD '77) is an associate professor of geology at UT San Antonio.

- "Had a second child, a boy, born this past year. Looking forward to seeing everyone at the GSA meeting."
- Cindy** (BS '71) and **Tom Swinbank** (BS '71) are consulting geologists in Georgetown, Texas.
- James B. Tartt** (BS '48), executive sales representative for IMCO Services in Houston, appreciates the University and often thinks of the "great years spent there."
- George W. Taylor** (BA '49), a retired geologist from Exxon Company U.S.A. and now the owner of L&M Cafe in Georgetown, Texas reports, "Along with 25 other international geologists went to the Tarrum Basin of western China as guests of the People's Republic of China. It was the most interesting trip of my life."
- Leslie Armour Taylor** (BS '41) is retired and resides in Austin.
- Dick Teel** (BS '39), senior geological associate with Amoco Production Company in Houston, will be "going back to Africa for my fifth safari and to hunt and fish on Lake Karibe. Will be taking 35-mm pictures also."
- C.B. (Tim) Thames, Jr.** (BS '53, MA '57), an attorney and petroleum consultant in Bismark, North Dakota, reports, "Drilled one well in 1985 that opens several years of development to come. Last daughter, Katy, in college at Moorehead State, Minnesota. Best wishes to all at UT."
- Laura A. Thomas** (BA '85) is a student at UT Dallas and is employed by Homart Development Company.
- Susan L. Thompson** (MA '85) is employed by Arco Oil & Gas Company as a geologist in Midland.
- T.J. Thompson** (BS '57), an independent in Dallas, sends "best regards to all. Last year I commented how good it was to read about my rich ex- classmates; my, what a short year it has been."
- Jerry T. Thornhill** (BS '60), a geologist with USEPA, Robert S. Kerr Environmental Research Laboratory in Ada, Oklahoma, reports, "Doing research on mechanical integrity of injection wells. Also have a project with Charles Kreitler at the Bureau of Economic Geology. Hope to get to Austin during the life of the project."
- Guy Tidmore** (BS '82) resides in Austin where he is employed by the Texas Water Commission as a geologist. He writes, "Still playing with groundwater and hazardous waste."
- Laura Elliott Tillman** (BS '82, MA '85) is a development geologist with Chevron U.S.A. in Denver.
- Bert C. Timm** (MA '41), vice president of Consolidate Fuel Supply in Richardson, Texas, reports, "Oil at \$12 and gas at \$2 got to us, so we are now marketing but it's not as much fun as exploring."
- David N. Tolces** (BS '85), a geologist for Underground Resource Management in Austin, will be attending the University of Florida in Gainesville, beginning in September. He will spend this summer touring Europe.
- Donald H. Torgerson** (BS '52) lives in Littleton, Colorado, and will retire "100% this year."
- Elsworth Tonn** (BS '55) is president of Ranger Oil Company in Houston.
- Jack W. Trantham** (BS '51) is an independent geologist and reports, "Not much good to say about the oil and gas industry right now, but it's still the best business and it will come back strong again. Come and see me in Tyler."
- C. Brian Trask** (MA '72), associate geologist with the Illinois State Geological Survey, resides in Champaign.
- Everette J. Travis** (MA '51), retired and living in Buchanan Dam, Texas, writes, "Just confirmed what I was taught about the geology of Hawaii."
- Rex Travis** (BA '48), owner of Rex Travis, Inc. in Bellaire, Texas, is presently "struggling to survive in this depressed oil environment, however, I am optimistic for the future. Keep up the good work in publishing the *Newsletter*."
- Robert F. Travis** (BS '57), exploration manager for Royal Oil & Gas in Corpus Christi, reports, "I am proud to have my daughter, Debbie, studying geology at UT. I will surely see more of the campus now."
- Roy W. Tronrud** (BS '40) resides in Richardson, Texas, where he is retired from the Sun Company. He is "playing golf and traveling around."
- Steven R. Trudeau** (BS '70) is employed with Sun Exploration and Production Company in the reserves acquisitions department. His activities "have increased in the evaluation and recommendations of purchasing oil and gas companies and producing fields. My geologic background and exposure to sandstone and carbonate reservoirs throughout the U.S.A. have been substantially expanded. The work includes a good blend of geology, production engineering and exploration."
- Ching-Chang James Tsai** (PhD '81) is a geophysicist in Houston with Texaco U.S.A.
- Arthur J. Tschoepe** (BS '50), independent geologist and oil operator in Corpus Christi, writes, "Sixth daughter attending UT and six grandchildren keep us busy between wells."
- John D. Tuohy** (BS '39) is retired and resides at Canyon Lake, Texas. "Getting pretty well drilled into this retirement routine, but trying to keep up a two-acre yard can be a problem. Family doing well with the addition of a grandson in October '85."
- Edd R. Turner** (BA '43), a retired consultant in Kerrville, completed his term as president of the American Geological Institute in 1985. In May, he was elected to a two-year term on the Kerrville city council.
- John T. Twining** (BS '48) reports, "I retired from Shell Oil Company on December 1, 1985, and am really enjoying my hobbies of growing cacti and playing with my home computer. Jeanne and I have decided to stay in Houston for the time being."
- L.J. Tydlaska** (BA '49, MA '51), senior geological associate with Amoco Production Company in New Orleans, writes, "no special news. Wish you all well and keep turning out the good geologists as you have through the past years."
- Robert Chan Tysor** (BA '52) is employed as a geologist with Frio Exploration in Houston.
- Martin S. Ullrich** (BS '74) an independent geologist in Houston is "waiting for oil to go up. Wife, Julie, and kids are fine. Missed old UT Exes at the last convention, hope to see some of you at the football games this fall."
- Robert D. Valerius** (BS '59) resides in Corpus Christi where he is an independent geologist.
- Amy Wharton Vanderhill** (BS '83) completed her master's degree at Texas A&M University and is now employed by Mobil Oil Corporation in Dallas. Her thesis topic: "Depositional Environment of the Middle Pennsylvanian Granite Wash: Lambert 1, Uryhor, and Sundance Fields, Northern Palo Duro Basin, Oldham County, Texas."
- Don Vasco** (BS '81) is a graduate student in the department of geology and geophysics, University of California Berkeley, and is "looking for post-doctoral work or a university teaching job."
- Tracy Lee Vaught** (BS '77), owner of Backstreet Cafe in Houston, writes, "I am glad I got out of the oil business. Running the Backstreet is lots more fun than making maps. Bring your business card and I'll buy you a drink—you deserve it."
- David Wilkes Vernon** (BS '79) is a geologist with Vernon Resources Inc. in Dallas.
- Charles D.** (BA '23) and **Eloise F. Vertrees** (BA '22) reside in Midland and celebrated their 62nd wedding anniversary on April seventh.
- R. B. Vickers** (BS '47), an independent geologist in Abilene, reports, "Petroleum industry doldrums at present are known to all of us. My family and I are alive and well, observing and occasionally participating in the rapidly passing scene. Kudos to Al Nelson for gathering together the 1947 bunch."
- Ricardo Villasenor** (BA '75) is president of Geophysics International Corporation in Dallas. "Electrotellurics is a new field in geophysics that is considered to be the most important technological breakthrough in the history of exploration. This was attained through recent discoveries in plasma physics. A specific frequency spectrum in the electric field present at the earth's surface contains information regarding the type of lithologies, their depth, thickness and mineral content, including hydrocarbons and water, down to depths of more than 40,000 feet. This new and exciting field is drastically revolutionizing the exploration industry and lowering the cost of mineral resource

exploitation."

Kenneth D. Vogel (MA '85) is an exploration geologist with Exxon Company U.S.A. in Houston.

Marjorie Vogelsang (BA '37) is retired and lives in Rosenberg, Texas.

William Vrana (BA '39), petroleum geologist in Corpus Christi, is "still rolling with the punches. No doubt the roller coaster aspect of the oil industry casts a shadow over the future of our country and all of us."

Andrew Harold Wadman (BS '84) is employed as a processing geophysicist in Houston with Digicon, Inc.

A. H. Wadsworth, Jr. (BS '41, MA '41), owner of Wadsworth Oil Company in Houston, has "moved from downtown into the same amount of space but at 32% of the cost. That tells you a lot about Houston's present economy. Trying to stay alive until OPEC breaks our ability to produce oil, then they will jump the price higher than ever."

Richard B. Waitt (BS '66, MA '70), geologist in Vancouver, Washington, with the U.S. Geological Survey "attended the volcanologic congresses in Italy and New Zealand and will be working in Iceland the summer of '86. Wife, Cynthia, daughter, Kristin, and I enjoy the Pacific northwest and its volcanoes."

Lloyd O. Waldron, Jr. (BS '55) is retired and lives in Shreveport.

Mark C. Walker (BA '81), attorney with Grambling & Mounce Law Firm in El Paso, practices litigation, "with focus in the area of products liability, insurance, business, school law, water and natural resource rights."

Richard W. A. Walker (BA '51) resides at The Woodlands, Texas, and took early retirement from Mitchell Energy. He reports, "Sibyl and I will have eight extra years of fishing, traveling, golf and visiting grandchildren."

J. C. (Rusty) Walter III (BS '80), executive vice president of Walter Oil & Gas Corporation, lives in Houston.

Bernie Ward (BA '55) is an independent petroleum geologist in Tyler, Texas. "Geology is still fun but not real profitable lately."

Bill (BS '55, MA '57) and **Kathy Ward** (BA '57) reside in New Orleans where Bill is a professor at the University of New Orleans. They are looking forward to "visiting our son in his dissertation field, a remote area of northwest Australia, and from there on to the Karst Institute in Guilin, China."

Dan L. Ward (BA '49), a retired consulting geologist in Grand Junction, Colorado, plays golf, hunts and fishes. "The western slope of the Rockies is a great place to live."

Herb Ware (BS '84) is a geologist with M. Brad Bennett Inc. in Midland.

Ralph H. Warner (MA '61), a consultant in Humble, Texas, writes, "oil business isn't so much fun any more. On the positive side,

Marilyn and I became grandparents with the birth of our first granddaughter, Ashley. We look forward to better days."

Karl Warning (BS '71, MA '77), a development geologist for Enserch Exploration in McKinney, Texas, "finally made the fall barbecue and it was great seeing the department folks again."

Ken A. Warren (BA '34) resides in Dallas where he is an investor and petroleum advisor. He and his wife, Emma, took a spring cruise aboard the Cunard Princess, with stops in Cozumel, Cayman Islands, Montego, Panama, Costa Rica and Acapulco.

Leslie Leland Warren (BS '85), geological technician with Pringle Petroleum in Houston, was married on March 1, 1986.

Joel S. Watkins (PhD '61) will be "moving to Aggieland this summer." He is joining the Texas A&M geophysics and oceanography faculty as the Earl F. Cook Professor of Geosciences.

Bill D. Watson (BS '58) has taken early retirement from NL Sperry-Sun in Dewart, Texas, and says, "getting things done around the house that I've been putting off for ten years."

John Allen Watson (BS '56) is a hydrologist with the Texas Water Commission in Austin. John expresses his concern for the recent activity of creationists. He writes; "The 1986 International Conference on Creationism: The Age of the Earth will be held at Duquesne University, Pittsburgh, Pennsylvania, August 4-9. The impact that creation science will have on geology in the future is evident from the following abstract of a paper to be presented in the conference by David R. McQueen: An Outline for 6000 Years of Earth History 'The geology of the southern Appalachians is better explained within creation week (c. 4100 B.C.)/flood year (2500 B.C.)/post flood, residual catastrophism model of earth history than one requiring billions of years. Six new divisions of historical geology are proposed, including geological evidence for three phases of the flood year.' Another by Steven A. Austin & John Morris: Tight Folds and Clastic Dikes as Evidence for Rapid Deposition and Deformation 'Tight folds in a 10,000-foot strata sequence in southern California indicate the Miocene sandstone remained non-lithified until folded in the late Pleistocene. Likewise dikes of non-lithified Cambrian sandstone from the base of a 10,000-foot sequence in the Colorado Rockies were intruded during formation of the Cretaceous Laramide structure. Both require a short time between deposition and deformation.'"

John E. Watson (BA '72), CEO for Horizon Gold in Evergreen, Colorado, spent three weeks in China, in November, discussing mineral exploration concessions. Horizon's first child was born in March, 1000 TPD gold mine in central Nevada. John and

Linda are doing fine.

William Carlton Weaver (BA '32), an independent oil producer in Corpus Christi, is still "drilling a few wells and hoping for more improvements in the energy problem."

Albert W. Weeks (PhD '41) is retired from Sun Oil Company and resides in Wynnewood, Pennsylvania.

Bonnie R. Weise (BS '74, MA '79) is a geological consultant in San Antonio.

Lloyd C. Wells (BS '54) resides in Arlington, Virginia, and reports, "in the fourth year of retirement and love every minute of it. Traveled a bit last year and it's good to be home again. Best wishes to all."

Norman N. West (BA '50), owner of Norman West & Associates, resides in Houston.

Barry Wethington (BS '85) is a geologist with Cawley Gillispie & Associates in Fort Worth.

Robert H. Weyman (BA '82) is employed as a geologist with Ray Hollifield & Associates in Irving, Texas.

James A. Wheeler (BA '47), consulting geologist in Houston, is still "active in exploration and feel fortunate to be able to cover my overhead during these doom and gloom days we are experiencing."

Richard O. Whitaker (BS '50) is chief geophysicist with Cabot Petroleum Corporation in Houston.

David J. White (BS '41) lives in Austin and is enjoying retirement very much. He travels occasionally but spends most of his time doing volunteer work. In his spare time he reads or works in his garden.

Hugh G. White III (BS '53 BA '54), a consulting geologist in Midland, has sent us a joke that is reflective of our times. "How do you get a geologist out of a tree? You just cut the rope." Hugh is sure there will be better days ahead and he is not giving up.

Steven L. White (BS '78) is a consultant in Tyler, Texas, but is "looking for something steadier in the Dallas area."

Curt Whited (BS '75) resides in Houston and has worked for the past five years as a development geologist. Currently unemployed, he has returned to school to learn computer programming skills.

Charles D. Whiteman, Jr. (BS '58) resides in Baton Rouge, Louisiana, where he is a hydrologist with the U.S. Geological Survey.

F. L. Whitney (BS '43) lives in London, Texas, and writes, "The little Mrs. and I are celebrating our tenth year of retirement. It's great."

Marian I. Whitney (BA '30, MA '31, PhD '37) enjoys retirement in Shepherd, Michigan. "In March 1985, the *Journal of Geological Education* published my paper entitled Yardangs, along with a cover illustration of a yardang. In October I gave a paper at the annual meeting of GSA entitled: 'Broad influences of topography and planetary rotation in establishing the eolian pattern in the western desert of Egypt.'"

- Robert J. Whitson** (BS '85) is employed as a junior geologist with Bullen & Dominique Inc. in Lafayette, Louisiana.
- James C. Whitten** (BS '56), an independent geologist in Midland, writes, "The oil business is not as good as it was, but it is still great."
- Matthew K. Wickham** (BA '85) resides in Austin where he is a geologist with Hall Southwest Water Consultants.
- Fred Wiegand** (BS '69), president of Wiegand Brothers Drilling Company, Inc. in Lockhart, Texas, is now working as a drilling superintendent for Santa Fe Drilling Anaco, Venezuela. He spent two weeks as Major, U.S. Army Reserves, Corps of Engineers in Washington, D.C. He and his family are doing fine.
- Robert B. Wightman** (MA '53) is an exploration scientist in Houston and reports, "After 33 exciting years with Exxon, I will retire this summer, and I'm looking forward to new opportunities that this state of life affords."
- Richard A. Wiley** (BS '42) retired from Amerada Hess Corporation after 40 years service in Lafayette, Louisiana.
- James L. Williams II** (BS '81), senior geologist in Corpus Christi, is still "employed and hope to stay that way, thanks to a UT degree."
- James Richard Williams** (BS '50) is semi-retired in Bullard, Texas, but keeps abreast of the oil business by doing some consulting in north Texas.
- John B. (Jack) Williams** (BS '43) is an independent petroleum geologist in Houston.
- Mark Williams** (BS '50), a consultant in Wellington, Texas, writes, "From a member of AAPG, thanks, Bill Fisher."
- Meryl D. Williams** (BA '43) is semi-retired and lives in Ardmore, Oklahoma.
- Robert R. Williams** (BS '54), chief geologist with Euratex Corporation in Fort Worth, reports, "Younger daughter, Susan, is a senior in geology at UT. Robin and I are enjoying being grandparents. Planning to be around for the next boom."
- Clayton H. Wilson** (BS '83, MA '85) is an exploration geologist with Exxon Company U.S.A. in Houston. "Despite these economic times, Exxon has been good to us. When I visit EPR Company, the faces are so familiar that I feel I'm visiting the fourth floor of the Geology Building. I am presently working in the Gulf of Mexico. Lorri and I have recently become foster parents and I've joined a volunteer fire department, which is exciting work. I'm probably the last Wilson to come through the geology department for this generation, and I'd like to say congratulations to my brother, Doug, for making it through two major layoffs and thanks to my dad, Feather, for talking me into becoming a geologist."
- Homer C. Wilson** (BS '42) retired in 1983 in Dallas. He "finally saw the Great Rift and the wild animals in Kenya with the Flying Longhorns. Nancy and I celebrated our 43rd wedding anniversary in Nairobi in February. Dallas continues to be our choice as home base."
- Louita Dodson Wilson** (BA '40) resides in Del Rio, Texas, and reports, "Writing, grandmothering, traveling and working with various women's organizations to erase the type of discrimination which prevented women geological students from earning the BS degree at UT years ago. They were permitted to earn the BA only, thus limiting their job opportunities."
- Randolph E. Wilson** (BS '70) is an independent oil and gas producer in Dallas.
- William Feathergail Wilson** (BS '60, MA '62), vice president for Placid Oil Company in Dallas, writes, "My exploration goals have shifted to arenas of Africa and the deeper waters of the Gulf of Mexico."
- W. W. Wilson, Jr.** (BS '40) is an independent oil operator in Abilene.
- Wynant S. Wilson** (BS '53) is president of Wynant S. Wilson, Inc. in Abilene and says, "Famous last words: if I ever get through this decline, I am going to retire."
- Melissa C. Winans** (PhD '85) is collection manager in the vertebrate paleontology lab at the Balcones Research Center in Austin. "Thanks to an NSF grant which we received in March, I am now working full time. We hope to make a lot of improvements to the collection over the three years of the grant."
- C. Robert Winkler, Jr.** (BS '50), a partner with Richards & Winkler in Midland, continues to develop quality prospects in west Texas that are commercial at today's oil prices.
- Richard Hart Winston** (BA '80), director of manufacturing, Boule in Dallas, was married to Judith Hammonds in November, 1984.
- I.T. Winter** (BS '53) is an industrial engineer with Bell Helicopter in Fort Worth.
- Kurt J. Wiseman** (BS '76) resides in Houston where he is president of Geo-Wise, Inc.
- Kristina Witt-LaRue** (BS '83) is a geologist assistant with the Texas Water Commission in Austin.
- Ed Wolcott** (BS '47), president of EDCO Petroleum in Dallas, is "trying to find cheap oil and doing some consulting."
- Robert L. Wood, Jr.** (BA '56) is president of Occidental Crude Sales, Inc. and executive vice president of Occidental Oil & Gas Corporation in Houston. He reports, "Personally, all is well, but businesswise, all is not well. Oversupply of crude and pessimism about the next few years by forecasters makes for tough going."
- James T. Woodman** (MA '74) is a geophysicist in Pessac, France.
- Arnold Woods** (MA '81), project geologist with Conoco Inc. in Ponca City, Oklahoma, reports, "I'm writing from Cairo, where I have been on temporary assignment for two months. Will be on wells in Tunisia and the Congo later this year - Conoco doesn't seem to have heard about the slowdown in the oil industry. Next year will be even busier with lots of wells, learning computer operations and studying French and Arabic. Tell Luigi I have some stamps for his collection."
- Ray D. Woods** (BA '31, MA '34), retired and living in Austin, "Continue to do a lot of traveling while I still can."
- John Frank Woodward, Jr.** (MA '51), rancher and consulting geologist in Alpine, was married to Avis Fault. John is doing fine and enjoys hearing from old friends at UT.
- Thomas J. Worthington** (BS '51) retired in May 1983, after 32 years in the oil business. We "built a home on the lake in Jacksonville, Texas, and have done some traveling. Thanks for the *Newsletter*."
- Charles F. Word** (BS '37) resides in Conroe where there is "no change in our status except no more foreign travel, and will now explore the good old U.S.A."
- David Laurence Work** (BS '84) is a graduate student at Texas A&M University.
- Charles E. Workman** (MA '61) teaches math and science at Monterey High School in California. He reports, "Very difficult to get students interested in scientific careers since they simply don't want the challenge of years of technical courses."
- Charles J. Worrel** (BA '47), owner of Worrel Exploration, Inc. in San Antonio, writes, "Al Nelson and I are organizing a reunion for the class of 1947 at the Clarion Hotel in Colorado Springs on July 17-20."
- Gail Fisher Worrell** (BS '82) is a geologist with Exxon Company U.S.A. in Midland.
- Jim F. Womack** (BS '54) is a partner with Tower Exploration Company in Houston.
- Phil Wyche** (BS '51) has retired from the Gulf Oil Corporation and resides in Austin.
- Bob Wynne** (BS '57) resides in Fort Worth.
- Charles (Lee) Yager** (BS '82) received his MBA degree from Texas Christian University and is a credit analyst with InterFirst Bank in Fort Worth. Lee was married on May 31, 1986.
- Harvey E. Yates** (BS '35, MA '36) is chairman of the board for Harvey E. Yates Company in Roswell, New Mexico.
- Thomas A. Yoakum** (BS '57) is employed by Sun Exploration & Development Company in Dallas, and reports, "The lines are thinning out, but I'm still hanging in and working the Frio and Vicksburg in south Texas."
- Susan Wygant Young** (MA '85) is an exploration and development geologist with Conoco, Inc. in New Orleans.
- William C. Young III** (BS '61) is vice president of production for Challenger Minerals Inc. in Houston.

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





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.

Editors: William L. Fisher and John M. Sharp, Jr.
Managing Editors: Joyce E. Best and Melissa G. Smith
Photographer: David M. Stephens

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