



ANNUAL MEETINGS

GSA in Atlantic City

The clan gathered in Atlantic City in November. Alumni who chaired technical sessions were: Orville Bandy, Roger Batten, and John Huddle; authors or co-authors of papers were: Orville Bandy, Robert Burger, Robert Frey, James Howard, Don Kissling, Frank Kottlowski, and Ronald Perkins.

An I.U. alumni social hour was held in the Haddon Hall Hotel on November 10, 1969. Our hosts were: Ed Von Tress of the Indiana University Foundation and Jerry Tardy of the Alumni Office, and we express our appreciation to both organizations. Alumni and friends who attended were: Garry Anderson, Orville Bandy, Roger Batten, Ned Bleuer, Kennard Bork, Richard Bowen, John Bubb, Robert Burger, Bob Cassie, John Cleveland, John Cochrane, Howard Coombs, Eric Corneliusen, Roger Cuffey, Abe Diaraj, J. Robert Dodd, Ed Doheny, Bernd-Dietrich Erdtmann, Richard Erd, Robert Frey, Norman Gillmeister, Seymour Greenberg, Allan Gutstadt, Mr. & Mrs. William F. Hanna, Wyman Harrison, David Hawley, Tom Hanley, Thomas Hendrix, Alan Horowitz, James Howard, Sam Huffman, Ralph Hunter, Alan Jacobs, Gerald Johnson, Ikram Khawaja, Don Kissling, Steve Koehler, Frank Kottlowski, Gary Lane, R. K. Leininger, C. J. Leith, Richard Liebe, Brian Mason, Geoffrey Mathews, Richard McCammon, Harold Meisler, Al Miesch, Art Mirsky, Mr. & Mrs. Haydn Murray, James Noel, Mr. & Mrs. William Orr, Donald Owens, John B. Patton, Ron Perkins, Richard Petkewich, William Petrie, Gordon Pirie, Martin Prinz, Paul Proctor, Benjamin Richard, Mr. & Mrs. R. H. Rose, Ted Ross, Christopher Schmidt, Allan Schneider, Robert Shrock, Charles Siemers, John Smith, Ned Smith, Claude Spinosa, Thomas Straw, Jack Sunderman, Larry Taylor, Mr. & Mrs. William D. Thornbury, Russell Utgard, Harry Wheeler, Charles Wier, and Roy E. Williams.

FROM THE REGIONAL CAMPUSES

During the past summer, Indianapolis Downtown Campus received Title VI funds for the purchase of student polarizing microscopes. Jim M. Brown joined the faculty in September 1969. He is teaching structural geology, mineralogy, and petrology. Jim was formerly at St. Louis University. He received the Ph. D. at Madison, Wisconsin, and has spent many years tramping the North Lands. (Hmm, Brown to the North and Mirsky to the South.)

A milestone was reached December 20, 1969, when formal approval was given for an A.B. program in geology at Indianapolis. The first A.B. degree is expected to be awarded at the end of the summer of 1971. The Indianapolis faculty say that the above is another victory for good clean living.

We regret to announce that Claude Spinosa is leaving the I.U. Southeastern Regional Campus in Jeffersonville in June. He has accepted a position on the faculty at Boise State University, Boise, Idaho. Professor Spinosa was the first geology faculty member at Southeastern and has got the program off to a good start.

Kokomo Regional Campus has added courses in physiography, paleontology, and mineralogy which will allow three years of geology courses toward the bachelor's degree in earth science (in secondary education).

Roger Boneham was awarded a Summer Faculty Fellowship from the I.U. Foundation for study of the coalball flora of south-western Indiana.

Northwest Regional Campus at Gary received approval to add a third geologist to the faculty. They are heading for more involvement in environmental studies. During the week between semesters the Northwest and Fort Wayne departments combined their efforts in a field trip to the Florida Keys. Professors Erdtmann and Paul and about fifteen students are studying near-shore marine life.

Fort Wayne Regional Campus also has approval to add another faculty member—the fourth geologist.

BLOOMINGTON NEWS

Professor Donald E. Hattin returned to Bloomington in September after being in Great Britain while on sabbatical leave for seven months. His host institution was the University of Reading, Reading, England, where he presented several lectures. He studied classic exposures of British Paleozoic and Mesozoic rocks and studied in some detail Cretaceous stratigraphy and paleontology.

Professor Wayne R. Lowell also returned in September after having spent the summer of 1969 in Colombia and Brazil. He studied the geology of parts of these two countries in relation to exploration of mineral deposits.

Professor John B. Patton, chairman of the department, is on sabbatical leave during the second semester 1969-70. He plans to catch up on his building stone research and will take another trip to Europe to study building stone quarries and mills. Robert H. Shaver is acting departmental chairman for the semester.

A NSF Scientific Equipment Grant was awarded to the Geology Department to purchase equipment for undergraduate teaching. This enabled us to buy a Hewlett-Packard calculator computer, which was delivered last summer and is getting considerable use.

The biochemical research lab under Warren Meinschein received a NASA contract last June for \$110,000 to analyze lunar samples. Gulf Oil Corporation has awarded a grant for \$5,000 to be used in research on spectrographic identification of organic compounds.

The U.S. Public Health Service awarded \$30,000 to Charles Wier and the Geological Survey to study the distribution of sulfur in selected coal of Indiana. Harold Hutchison, Marvin Iverson, and Louis Miller also are participating in this study.

NEWS NOTES

HARRY (B.S. 67) and DEBBIE DeWOLF (A.B. 67) ALLEN reported in from Houston, where Harry was working for Gulf as a geophysicist. As part of a training program they are now in Pittsburgh and will go to Oklahoma City in June. Harry has just completed a master's degree at Washington University, and Debbie has been working with gravity data from Missouri and surrounding states.

WILLIAM F. ALTHOFF (B.S. 67) is working in the Environmental Engineering Department at the University of Massachusetts; he says that he hasn't abandoned geology, but is applying it.

LAWRENCE H. BALTHASER (A.M. 63, Ph. D. 69) has moved from Long Island to California. He says, "My wife is extremely happy to be back in her native land. I think the area is pretty nice, too, with ocean, mountains, and lots of interesting rocks."

DARIO BARRERO (A.M. 69) has been promoted to regional director of the Instituto de Investigaciones Geologico-Mineras with headquarters at Ibague, Colombia.

VICTOR BARUA (A.M. 50) moved from South America to Australia. He is head of porphyry copper exploration for Planet Management and Research, Pty. Ltd. He and his family (seven children) live in Townsville, Queensland.

PAUL BRADLEY BASAN (A.B. 65), A.M. candidate at State University of New York at Binghamton, is working on rugose corals in Florida and is an assistant instructor.

JAMES WOODFORD BATCHELOR (A.B. 45) spent last year on sabbatical leave from Lake Charles attending graduate school at the University of Cincinnati. Daughter Karen Sue saw her first snow there.

MR. and MRS. BERNARD R. BERRY (A.M. 61) and three sons, Scott 10, Mark 8, and Glenn 4, report that the FBI has given them assignments in San Diego, Washington, D. C., Atlanta, and Dalton, Georgia, with more to come.

ROBERT W. BOLIN (A.B. 64) recently entered the fire insurance field after four and one-half years as a naval supply officer. His wife of three years, Judy, and he have a son, Robert William, born in August 1968.

JOHN C. BOLLENBACHER II (A.B. 43) is a director of Coronado Petroleum Corporation and of Cochran Chemical Company of Wyoming. He and Alice Ann live in Denver.

EARL JOSEPH BOONE (A.M. 68) is now serving a two-year term of service in the U.S. Army, Cold Regions Research and Engineering Laboratory, Hanover, New Hampshire.

MARLAN T. BOULTINGHOUSE (B.S. 59) is production manager of Anaconda Aluminum Company at Terre Haute. He reports that they have three children, Mark 9, Mike 5, and Michele 1.

MALCOLM W. BOYCE (A.M. 56) has been working in San Francisco with regional geology of Africa for the past year. He states that other Hoosiers working for Chevron and SOCAL are Frank Pruett (B.S. 57, A.M. 59), Dan Tudor (A.M. 57), and Jim Bloom (A.M. 61).

GEORGE D. BROWN, JR. (Ph. D. 63), in Iceland in August for business and pleasure, is on sabbatical leave from Boston College in the fall of 1969 to finish bryozoan research on a NSF grant.

ANN (A.M. 65) and H. ROBERT BURGER III (A.M. 64, Ph. D. 66) announce that they have a son, Douglas Christopher, born on May 7, 1969. Bob is keeping busy as a teacher and as project director for NSF Instructional Scientific Equipment Grants and director of a Gulf Oil Company grant for rock deformation equipment. He also is doing summer work for the USGS in New England.

CARL E. CAMPBELL (B.S. 66, A.M. 68), Susie, and daughter, Rebecca, are in Denver. He is involved in seismic interpretation of the northern part of the Michigan Basin for Shell.

JAMES R. CARTER (A.B. 58) resigned from the Topographic Division, USGS, after working there six years, to begin work on a Ph. D. in cartography at the University of Georgia.

FLOYD CHILDS (A.B. 26) after naval service during World Wars I & II has retired as commander. He worked for the U.S. Army Corps of Engineers before retiring with his wife in Leisure World, Laguna Hills, California.

JOHN L. CHUTE, JR. (A.M. 62) received his Ph. D. (1969) in geophysics from Columbia and is presently working on Lunar Heat Flow with the Apollo program.

THOMAS E. COCHRANE resigned from Pan American Petroleum Company last year to join the partnership of Davis, Northcutt & Cochrane, Petroleum Geologists, in Oklahoma City.

JAMES C. CRISMAN (B.S. 62) was promoted to superintendent of underground storage, Northern Indiana Public Service Company, in October 1968. He and Sue have two children, Douglas 8, and Cynthia 7.

ROGER J. CUFFEY (A.B. 61, A.M. 65, Ph. D. 66) has been engaged in organizing a laboratory for graduate-level instruction and research in bryozoan paleontology. Currently he has two Ph. D.-level students and one master's-level student in bryozoan paleontology. In addition to taxonomically revising some bryozoans for the *Treatise on Invertebrate Paleontology*, he has been investigating the bryozoans living in modern coral reefs (and has made trips to Bermuda and to Eniwetok Atoll). He has also been teaching various courses in historical geology, regional geology, and paleontology at Penn State.

LYNDON L. DEAN (B.S. 60) is a geologist with the Material Service Corporation, subsidiary of General Dynamics at Lyons, Illinois, after nine years with Northern Indiana Public Service Company at Hammond.

PAUL R. DEEM (B.S. 61) has been with the Indiana State Highway Commission for six years. He and his family (five children) have just moved into a new house near Greenwood.

THOMAS DEETER (A.M. 69) and Pamela Kelly were married on June 22, 1969, in Washington, D. C. They set up housekeeping in Tulsa, where Tom is a research geologist for Cities Service.

GERALD E. DIETZ (M.A.T. 66) wrote that since he left I.U. he has studied geology at the University of Minnesota and astronomy at Villanova University, both under NSF support.

WILLIAM G. DIXON, JR. (B.S. 58, A.M. 66) says, "It is always a pleasure to point out to my engineer associates that our professional existence is dependent upon the perplexing vagaries of the Pleistocene geology of this area (Northern Illinois). The wife and I and 5 kids are all hale and hearty."

EDWARD J. DOHENY (A.M. 64, Ph. D. 67) is teaching engineering geology, geophysics, and mineralogy at Drexel Institute of Technology and is working on NSF-supported research into the role of absorbed water and cation exchange capacity in controlling the engineering properties of clay minerals.

ALVIN C. FARMER (M.A.T. 66) attended Bill Matthew's ESCP summer institute at Lamar Tech and is heading the ESCP program in the Billings school system.

RICHARD FITCH (A.M. 58) is teaching general science and math at junior high level and hopes to teach earth science soon. He is consulting in New Mexico's uranium resurgence. He has two boys, ages 8 and 6½.

ROBERT WAYNE FREY (A.M. 67, Ph. D. 68) reports that he and Dr. J. D. Howard have been joined by Dr. Hans E. Reineck and his team of researchers from the Senckenberg Institute, Wilhelmshaven, Germany, for a detailed study of the geologic and paleontologic significance of Recent beach and shoreface sediments at Sapelo Island, Georgia. The work is supported by the National Science Foundation.

TJIANG LIONG GAN (Ph. D. 61) is working with Chevron Overseas. His home base is the Netherlands, but he is now in Nicaragua studying Tertiary rocks.

MAXWELL GARDNER (B.S. 58), with the USGS in Denver, died of carbon monoxide poisoning November 5, 1969, while on a hunting trip in Colorado.

CONRAD P. GRAVENOR (Ph. D. 52), general manager, Peace River Mining and Smelting, Ltd., transferred from Edmonton to Ontario to start a prototype plant to produce iron powder.

STANLEY K. HAMILTON (B.S. 63), after receiving a Ph. D. in 1967, has done exploration for Cu-Ni in Minnesota, Ni in Manitoba, Cu and Mo in Montana, and S in West Texas and is now working with AMAX's exploration-research group on copper environments. Daughter Lisa was born June 13, 1968.

JOHN M. HECKARD (A.M. 63) is in charge of water-related studies for Dames and Moore's Cincinnati laboratory.

WARREN C. HEISTERKAMP (A.B. 50, A.M. 53), with Marathon, returned to Findlay, Ohio, after six years in Australia and New Guinea.

THOMAS C. HIESTAND (A.B. 22), a petroleum consultant in Denver, reminisces about starting in the petroleum industry in Tulsa in 1919. He now is requesting the Executive Committee and Business Committee of AAPG to authorize a new technical Division of Mineral Economics.

BRIAN B. HOLM (A.M. 64), Department of Philosophy at Miami, is actively interested in philosophical foundations of geology.

JAMES F. HOWARD (Ph. D. 66), in addition to his teaching duties in the Department of Geology, was appointed assistant coordinator for research at Ohio University.

RAYMOND S. HUNT (A.M. 25) states that he has retired and that it is still hot and dry in Texas.

JAMES R. JACKSON (M.A.T. 67) is doing graduate work in secondary school administration at Old Dominion College, Norfolk, Virginia. He joins another ex-I.U.-A.Y.I. member, Harvey Barrett, as a team teacher this fall.

ALAN M. JACOBS (A.M. 65, Ph. D. 67) represented the Illinois Geological Survey at the 8th International Quaternary Congress in Paris, presented a paper on research in paleolimnology of south-central Illinois, and attended a post-Congress field excursion in the French Alps. Alan and Luanna toured Austria prior to the Congress meetings.

JACK R. JANKOVICH (B.S. 53) started a Pontiac dealership in 1967 in Manhattan, Kansas. He says stop in and say hello.

ROBERT D. JENKINS (A.B. 51, A.M. 57) left Texaco and is now a consulting geologist in Oklahoma City.

THOMAS D. JONES (A.B. 51, A.M. 53) states that after living and working in Shreveport for twelve years, when Mobil moved its offices he moved to Slidell.

MICHAEL R. JORDAN (B.S. 62) and family returned to Vincennes. Daughter, Corrie Louise, and son, John Rolf, were born in Heidelberg, Germany. They were overseas for five years—Japan, Turkey, and Germany.

CAPT. STANLEY CRAWFORD KENT (A.B. 67) completed one year in Vietnam with the 1st Cav. Division and is presently assigned as an instructor at Artillery School in Ft. Sill, Oklahoma.

MRS. CAROLINE H. KIERSTEAD (Ph. D. 41) retired from teaching this June (1969) from Smith College but will continue to live in Northampton and hopes to have more time for research on late Tertiary Foraminifera and raising Pembroke Welsh Corgis (a dog?).

DOUGLAS J. KNAB (B.S. 69) is teaching junior high science and math at Holy Cross School, South Bend, Indiana. His summer job was with Atlantic Richfield.

LAWRENCE R. LEBAUER (A.M. 58, Ph. D. 62) is now in charge of procurement of raw materials for Western Hemisphere divisions of General Refractories.

GEORGE LECKIE (A.M. 62) is still in Australia. In addition to the title of geologist, he has for this year the title of "Secretary of the Victorian Branch of the Professional Division of the Australian Petroleum Exploration Association." How's that?

GLEN A. LEE (A.M. 24), now retired, went to Greece and Iran in September and October.

RICHARD K. LEININGER (A.M. 57) and family traveled to the International Clay Conference in Tokyo last September and toured parts of Hawaii enroute. Dick took field trips to southern Japan and to Hong Kong—just looking at the rocks.

JERRY A. LINEBACK (Ph. D. 64) married Mary Catherine Price of Logansport, Indiana, June 28, 1969. He is working on Mississippian and Pleistocene stratigraphy and areal mapping in Illinois.

MRS. JOHN D. LONGSHORE (Judy Clark, B.S. 63) reports that she has two children, Martha Louise 3, and Katherine Ann 1.

RICHARD O. LOUDEN states that they have a two-year-old son, Michael Wilson. Dick's work with Shell for the past two years has been in Lower Cretaceous carbonate stratigraphy of South Texas. Recent field trips of particular interest have taken him to the Sierra Madre of Mexico and Andros Island in the Bahamas.

RICHARD B. McCAMMON (Ph. D. 59) is an associate editor for a newly organized journal sponsored by the International Association for Mathematical Geology.

RALPH L. McDONALD (B.S. 50) has resigned as a geologist with the U.S. Forest Service and is manager of minerals operations of the Mauer Lumber Company in West Virginia.

JACK L. MASON (M.A.T. 68) left Malabar High School in Mansfield, Ohio, and is teaching geology at Okaloosa-Walton Junior College.

DAVID L. MATHEWS (B.S. 59, A.M. 60), with Union Oil in Anchorage, Alaska, says come to see them in the glorious Northland! They will be in Indiana in the summer of 1970.

JOHN I. MOORE (A.B. 21) reports that he has traveled through the Balkans, Portugal, Spain, Central Europe, Southeast Africa, and Panama.

MIKE MOORE (B.S. 65) will receive the M.S. degree from the University of Illinois in February. He is now working in the Industrial Minerals Section, Indiana Geological Survey.

IRENE FINCH (A.B. 67) MOOSE was married on August 16 to L. Fred Moose, whom she met at the I.U. Field Station in 1966. They are living in Denver, where Fred is a geophysicist for Shell Oil Company. Fred received his master's in geology from Lehigh University.

MICHAEL C. MOUND (A.M. 61, Ph. D. 63) received an MBA in June 1969 from Oklahoma City University, where he was the recipient of the Graduate Faculty Award as the outstanding student.

GEORGE M. NEVERS (A.M. 57) has been named Rocky Mountain district exploration manager for King Resources Company. He joined King in 1968 after working eleven years with Chevron.

RONALD K. OGLE (A.M. 59), with Mobil, has been doing reflection seismic work in the Anadarko Basin of western Oklahoma and in the Ardmore Basin of southern Oklahoma. He has worked with Bob Newman (B.S. 53) on some projects.

LARRY E. ORR (B.S. 63) is working on hydrologic studies to establish design runoff criteria for Allen County and preventative measures for drain embankment instability.

ROBERT WILLIAM ORR (B.S. 60, Ph. D. 67) directed during the summer a four-week field study program for earth science, geography, and geology students in British Honduras with trips to Guatemala and Mexico. Items studied include the barrier reef, land utilization, Maya archeological sites, physical geography, and landforms. Nineteen Ball State University students participated.

ROBERT E. PARSONS (B.S. 60) graduated from the Perkins School of Theology, S.M.U., in 1963 and is the pastor at the First United Methodist Church in Schulenburg, Texas. The two children are Philip 4 and Sandra 1½.

HOWARD W. PEIRCE (A.M. 52, Ph. D. 62) is in charge of a project, funded by a grant from the Four Corners Regional Commission, to evaluate exploration potential for new reserves of energy materials in Arizona.

DONALD N. PETERSON (A.M. 65), a postdoctoral research associate at Case Western Reserve, received his Ph. D. from Ohio State University in 1969 and is in Antarctica to collect samples for research in paleomagnetism.

MRS. JAMES T. PHILLIPS (Dora McKee) states that she has retired after twenty-one years as a paleontologist with Sun Oil Company and that she and Jim are trying to get settled in their new home in Bloomington.

R. GORDON PIRIE (B.S. 58, A.M. 61, Ph. D. 63) was elected department chairman of the Department of Geological Sciences at the University of Wisconsin at Milwaukee in the fall of 1969.

MARTIN PRINZ (A.M. 57) is on leave from Tufts University and is at the Institute of Meteoritics, as a co-investigator for one year with Dr. Laus Keil on lunar samples, doing electron microprobe work.

JOHN E. RAMSEY (B.S. 58) became a "renegade" in 1961 when he entered medical school at the University of Louisville. He graduated in 1965 and did a year of internship and a year as a resident in medicine. He is now in general practice in Ludington, Michigan. Sharen and he have two girls, ages 8 and 9½.

ROBERT G. REID (M.A.T. 67) is serving as contributing editor in earth science for Oregon science teachers.

BENJAMIN F. ROGERS (A.B. 35), a captain for Eastern Airlines, states that his son Frank is attending the University of Texas. His daughter Nancy and three grandchildren are in Darmstadt, Germany. Nancy's husband is Captain S. D. Atkins (M.D. 67 at I.U.).

GERALD B. RUPERT (B.S. 56, A.M. 58) states that his current interests are wave propagation, earthquake mechanisms, and exploration geophysics. He is teaching courses in seismology at the University of Missouri.

OTTO SARDI (Ph. D. 69) just moved into a new research laboratory with modern equipment in Cincinnati. He says, "working on a couple of papers which hopefully will be published soon. Family? My mother moved in with us, so we have a built-in babysitter." He and Henrietta have twin daughters, Monica and Nancy.

ROBERT E. SEIDEL (A.B. 63), Bemidji State College, Minnesota, states that he participated in the Yukon Alpine Centennial Expedition in the summer of 1967 and was with the Arctic Institute of North America in the summer of 1968, doing glaciological research on Fox Glacier in St. Elias Mountains, Yukon Territory, Canada. They have adopted a son, Erik, 2.

DON E. SIX (A.M. 51) was recently appointed chief geologist of Texaco's Producing Department—Eastern Hemisphere. Don joined Texaco in California in 1951 and has served as a district geologist, staff geologist, and assistant division geologist.

CAPT. LAWRENCE H. SKELTON (B.S. 60) was awarded the Outstanding Fuels Officer award in 1969 in the Air Force. He recently returned from Clark Field in the Philippines and is now at Otis AFB, Massachusetts. As a by-product of his travels, he is a worldwide collector of minerals and gems.

AARON D. SMITH (A.B. 68) states that a constant traveling companion of his is Frito-Bandito, a baby raccoon, that he found while doing fieldwork in Connecticut. "He is great on outcrop work and Appalachian structure, and also a big hit with the girls, but then he had a good teacher."

CARL J. SMITH (A.M. 69), after about a year with Gulf in Cajun Country, was recalled by the Navy and is now in Pensacola learning to be a Navy pilot.

HOWARD SMITH (B.S. 56) left the employ of the Indiana Geological Survey in November. He has accepted a position with Citizens Gas & Coke Utility of Indianapolis. He will be working as a geologist for Citizens at their Plummer Field in south-central Greene County.

JOHN M. SMITH (B.S. 53, A.M. 56) reports that Georgia Kaolin is sending him on interesting trips to Indonesia, Australia, and New Zealand on clay investigations.

LESLIE E. SPONSEL (A.B. 65), a lecturer in anthropology at the University of Saskatchewan, anticipates receiving his A.M. in anthropology from I.U. during the coming year. He then plans to teach one more year at Saskatchewan before resuming Ph. D. studies in anthropology at another institution.

MARION D. STALLARD (B.S. 59) is assistant director, Kentucky Department of Commerce, Frankfort, Kentucky (for mineral development).

JIM STANLEY (A.B. 50) is general supervisor of the Space Environment Branch at Northrop-Nortronics in Huntsville, Alabama. He, Margaret, and sons Robert and Richard reside in Huntsville.

JAMES FORREST STRATTON (M.A.T. 67), in his third year at Shippensburg, Pennsylvania, was married August 25, 1968, to Charlene Torasso of Clinton.

ROBERT E. (COTTON) SUBLETTE (A.B. 50), a district sales engineer with Dow Chemical Company in Evansville, maintains an active interest in geologic exploration for oil in the Illinois Basin.

DAN SULLIVAN (B.S. 51), Indiana Geological Survey, was elected president of the Indiana-Kentucky Geological Society last June.

RONALD W. TANK (Ph. D. 62) is now serving as resident director of Lawrence University's foreign campus in Eningen, Germany.

LAWRENCE A. TAYLOR (B.S. 61, A.M. 63), his wife Patty, and their two children are enjoying their stay in Washington, D. C. He is in experimental geochemistry at Carnegie Institution.

WALLER EUGENE TAYLOR (B.S. 50, A.M. 52) moved from Shreveport, Louisiana, to Los Angeles in June 1969. He says, "Off-shore California and Alaska geology is quite different from Gulf Coast, very challenging."

DONALD J. THOMPSON (A.M. 62) finished the Ph. D. degree at Washington University and is associate professor at California State College, Pennsylvania.

KEITH R. TREADWAY (B.S. 54, A.M. 58) is still practicing law in Oklahoma City, but has moved into new offices at 1529 SW 44.

MISS MARY ANN TURNER (B.S. 69), graduate student at the University of Nebraska, was a visiting research student at the Smithsonian Institution studying mammal-like reptiles during the summer.

SCOTT UTTLEY (A.M. 69), with Mobil, is working on the Upper Oligocene-Lower Miocene trend in southern Louisiana with considerable use of data processing. His wife Hari (A.M. sociology, I.U. 69) is currently teaching at Loyola University, New Orleans.

ROBERT B. VOTAW (B.S. 62, A.M. 64), graduate student at Ohio State, spent the summer studying hydrogeology of Burroughs Glacier, Glacier Bay, National Monument, Alaska.

JAMES F. WAKEMAN (B.S. 56, A.M. 57), his wife Gail, Bradley 12, and Emily 10, moved back to Houston in October 1968 after spending five years in New Orleans, two and one-half years in Tyler, Texas, and one and one-half years in Dallas—all with Texaco in seismic and gravity exploration.

E. CLAY WARREN (A.B. 49, A.M. 52) was promoted to the position of senior development geologist-operations by Standard Oil Company of Texas. Clay had worked for Standard of California in the Rocky Mountains area until 1963 when he joined Standard of Texas.

GEORGE I. WHITLATCH (A.B. 28, A.M. 29, Ph. D. 32), Georgia Tech, has about recovered from a coronary in December 1968 and is back at work full time.

RICHARD E. WILEY (B.S. 58) is still running his business in Hawaii (taking pictures), trading commodities, and rebuilding his sailboat.

DOUGLAS R. WILKE (A.M. 66) joined Homestake Mining Company as a geologist. He was with Chevron Oil Company in Calgary as a geophysicist.

ROY E. WILLIAMS (B.S. 61, A.M. 62) is teaching graduate courses in hydrogeology at the University of Idaho. He is directing several research projects in Idaho's North Rockies, one of which is in the Coeur d'Alene silver district. He says, "Any students at I.U. who are interested in roughing it on a wilderness exploration crew as a summer job should keep us in mind. We frequently need summer help and have already placed several I.U. students in summer jobs. My wife, Judy (B.A. Biology, I.U., 1961; Ph. D. Biophysics, Univ. of Ill., 1968), is currently conducting research in biophysics at Washington State University, just across the state line."

WESLEY E. WILLIAMS (A.B. 49), Naples, Florida, says, "Living on the beach is great! I would recommend it for all geologists because of the variety of specimens."

JOE I. WILLMAN (A.B. 60, M.A.T. 62), now an M.D., reports that they now have a girl and two boys and are living on a farm near Muncie. He is completing the final year of pathology residency.

DAN WILSON (A.M. 62) says his children are Bill 8, Chris 7, and Mary Alice 1. His duties are special problems in digital processing of seismic data with Texaco.

MRS. EMMA COOK WITHERSPOON (M.A.T. 66) is instructor of earth science at Barber-Scotia College, Concord, North Carolina. She is coordinator of Summer Enrichment Program-Geologic Survey of Cabarrus County, sponsored by the Space and Earth Science Center.

WILLIAM H. (TERRY) WRIGHT III (A.M. 67) is finishing his Ph. D. thesis, "Folding in the Slate Belt of West-Central Vermont," at the University of Illinois while teaching and enjoying the California geology, mountain climbing, and sunshine.

BYRON KIYOSHI YOSHINA (M.A.T. 68) married Joan Horton (M.L.S. 68). Kathleen Lee was born July 15, 1969.

GEORGE J. YURKAS (B.S. 56, A.M. 58) was transferred by Gulf Oil from Midland, Texas, to the Alaska Section of the West Coast District at Bakersfield, California.

AWARDS

Undergraduate Scholarships

R. Patrick MacDaniel, a sophomore from Connersville, Indiana, received the Chevron Oil Company, Western Division, scholarship in geology, and Stephen A. Graham, a sophomore from Evansville, Indiana, received the Standard Oil Company of Texas scholarship in geophysics.

The ten freshmen earth science scholarship winners and sources of funds are: Judith M. Ayers, Gregg Corr, Lenore C. Hilliard, Joan Helen Wood, and Ray Wright, Humble Oil Company; Francis M. Kalder and Bonnie Jean Quearry, Standard Oil of Texas; Michael J. Goodman, Shell Oil Company; Glenn M. Daugherty, Charles Deiss and Cumings-Malott Memorial Funds; and Richard L. Adams, oil company contributions.

Cumings Award

The faculty committee that chooses the recipient of the Cumings Award ended in a tie vote. This year's award for the best paper, by a student, on Indiana geology went to Donald D. Carr and Lawrence H. Balthaser. Don's paper was a dissertation, "Geometry and Origin of Oolite Bodies in the Ste. Genevieve Limestone (Mississippian) of the Illinois Basin." Larry's was also his dissertation, "Petrology and Paleogeology of Middle Chester (Mississippian) Rocks of the Southwestern Indiana Outcrop." Both recipients were awarded plaques suitably inscribed.

Faculty Scholarship Award

David E. Thompson, Downers Grove, Illinois, was awarded the Faculty Scholarship Award for 1969. The award goes to the senior who has the highest overall average and who is following a program leading to a professional career in geology. David received the B.S. degree in January 1970.

Robert R. Shrock Honored

An endowed distinguished chair was established at the Massachusetts Institute of Technology in honor of Robert R. Shrock. The chair will be funded by a gift from Mr. and Mrs. Cecil H. Green of Dallas, Texas, and will be called the Robert R. Shrock Professorship of Earth and Planetary Sciences. Dr. Shrock, former department head at M.I.T., will retire as a professor of geology in June. He received A.B., A.M., and Ph. D. degrees from Indiana University and currently is chairman of the I.U. Geology Alumni Council.

The Alumni Association of the College of Arts and Sciences has assisted us in the mailing of this Newsletter and the enclosed Alumni Directory. If you are not already a member of the Alumni Association, may we suggest that you become a member by sending your check for five dollars to the Alumni Office.

Help us keep the Alumni Directory up to date by sending in corrections and address changes and help us keep the Newsletter "newsy" by sending in news items.

John B. Patton, Chairman
Charles E. Wier, Editor

DEGREES AND JOBS

Robert L. Anstey (A.M. 67, Ph. D. 70) completed a dissertation on Ordovician bryozoa in January and has accepted a position on the faculty at Michigan State.

Ronald W. Klusman (B.S. 64, A.M. 67, Ph. D. 69) finished his dissertation last August on electron microprobe analyses of feldspars and is an instrumental analyst at Purdue.

Donald D. Carr (Ph. D. 69) completed a dissertation last July on oolites in the Ste. Genevieve Limestone and continues to work for the Indiana Geological Survey.

David Darko (B.S. 70) is now employed as a coal geologist for Ayrshire Collieries, a subsidiary of AMAX.

Abraham Diaraj (Ph. D. candidate) has accepted a position as research geophysicist with Standard Oil of California, Western Operations. Abe will be stationed at either La Habra or Bakersfield.

Charles Glore (A.M. candidate), who hopes to finish a thesis on Pennsylvanian sandstones by early March, has accepted a job as a coal geologist-geophysicist for Ayrshire Collieries, a subsidiary of AMAX.

Kenneth I. Reiss (B.S. 68, A.M. candidate) has accepted employment with Ayrshire doing laboratory research on coal roof rock.

Arthur N. Palmer (A.M. 65, Ph. D. 69) completed a dissertation in September on karst in southern Indiana. His work included mapping the Blue Spring Cave, which has nearly 19 miles of passageways—the longest in Indiana. Art is still teaching at State University College, Oneonta, New York.

Wallace W. Wrigley (B.S. 68, A.M. candidate) has accepted a position as geophysicist with Standard of California, Western Operations, at Bakersfield. Wally hopes to finish a thesis on the relation of Love wave dispersion to Illinois Basin structure in early April.

Eric F. Corneliusen (A.M. 67, Ph. D. candidate), who plans to finish a thesis on bryozoa of the Brownsport Formation in Tennessee, has accepted a job in Texaco Paleontology Division in Houston.

Christopher J. Schmidt (A.M. 68, Ph. D. candidate) will join the faculty at Knox College in September. His thesis is on the deformation of the disturbed belt in southwestern Montana.

GEOLOGY ALUMNI COUNCIL

The I.U. Geology Alumni Council met in Atlantic City last November to evaluate the progress made in our Excellence in Geology Program and to plan for the future. Most of the information presented and discussed was summarized and sent to geology alumni in December as a brochure from the Alumni Council and the Indiana University Foundation. Unrestricted contributions to the Excellence in Geology Fund and interest earned on endowed funds are used by the department to fill special needs that cannot be supported by the normal University budget. For instance, money to pay printing costs and some of the mailing costs for the Geology Newsletter and Geology Alumni Directory is available only through your contributions to these funds. The Alumni Council joins with the geology faculty in a desire to make our alumni justly proud of their Alma Mater. Your support in the past is appreciated; your help in the future is requested and needed.