IN MEMORIAM

Alfred Knight of Rossmoor Manor, Walnut Creek, California, died November 6, 1969. He was a member of the exceptional class of 1927. He was one of seven or eight students who worked with Jerry Harris and me on the geology of Blackhawk Canyon in the San Bernardino Mountains. I still have notes on observations at his stations in the Blackhawk area. Al became an agriculturist instead of a geologist, but he kept in touch with us all these years.

A. O. Woodford

Thanks to the award of a Fellowship from the John Simon Guggenheim Foundation, Donald, Ann, and Ewen McIntyre have been enjoying a sabbatical leave in Scotland. Donald has followed an old interest in tracing the rise of Scottish Geology. At Edinburgh he has found field notebooks belonging to some of Hutton's friends, and including the sketches made of the granite veins in Glen Tilt and of the unconformity at Siccar Point. He found it helpful to review his Latin in order to read Hutton's dissertation and to take a course on the reading of manuscripts at the Scottish Record Office.

Modern languages too have occupied much of his time. At Binghamton, N.Y., he attended the first Users Conference on the new computer language APL. Donald introduced this language in a course at Pomona over a year ago. He is an ardent proponent of its merits, which he demonstrated at a symposium at Kansas and at the Short Course on Mathematical Geology organized by the AGI in connection with the GSA meeting at Atlantic City. In Edinburgh he has an APL terminal linked to a computer at Newcastle.

Donald's speaking engagements have been numerous, lecturing to the Geology and Computer Science Departments at Edinburgh, Aberdeen, St. Andrews, and Liverpool. He was invited to the Hague to address the Shell Research Group, was honored as Mathew Vassar Lecturer at Vassar College, and was appointed Swiney Lecturer by the Trustees of the British Museum. He has just completed a series of lectures (in French) at the University of Neuchatel, Switzerland, and he has been chosen by the Royal Society of Edinburgh to give the final lecture for the session.

In the absence of Donald McIntyre, Douglas K. Morton (B.A., U.C.R.; Ph.D., U.C.L.A.) served as Visiting Associate Professor for the year. He divided his time between regular duties as geologist with the California Division of Mines and Geology and the teaching of mineralogy, structural geology and field geology. In the latter, students mapped areas in the Tertiary sediments of the Cajon Pass, and batholithic - pre-batholithic rocks on the Perris block near Sun City.
Doug has published both the structural results of his Ph.D. thesis on the Lakeview Mountains pluton, and, in cooperation with Alex Baird ('54) and Kathy Baird ('62), a companion piece on the chemistry of the body. These papers appeared in the August 1969 issue of the Bulletin of the G.S.A.

In another cooperative project, Doug, Alex, and Kathy have made a chemical study of syenitic rocks from the Mountain Pass region of eastern Southern California. This is in support of detailed mapping and petrologic study of the area by Doug and Ken Jatson (U.C.L.A.).

The department had a number of distinguished visitors during the year, all of whom served to give our students excellent vistas of geology and geologists outside the hallowed walls. We appreciate the lectures given by Mase Hill ('26) on west coast structure in relation to "new global tectonics," Greg Davis (Prof., U.S.C.) on large scale overthrusting in eastern California, Mike Woodburne (Prof., U.C.R.) on the geology of Punchbowl and Cajon regions, Thane McCulloh ('49) on the geologic problems of the Santa Barbara Channel, Mel Peterson (Prof., Scripps, and Director of JOIDES) on the deep sea drilling project, and Waldo Smith (Executive Director of the American Geophysical Union) who described the challenges and opportunities for students in the field of geophysics. Also distinguished, but not a visitor, Woody gave a fine talk on the geology of the Los Angeles Basin to the historical geology class.

Woody's activities during the year have been diverse. In addition to his active role as Editor for the Freeman Company's earth science series, he published "Serial Literature Used by American Geologists, 1967" (Jour. of Geol. Educ., 1969) and "Memorial to Herwin Guy Edwards, 1889-1969" (Proc. for 1969, G.S.A.). Woody has been the prime mover on a study of the geomorphic history of the Perris Block, helped by Don Doehring (M.A. '65), John Shelton ('35), and Dick Morton (Doug's brother) of the Eastern Municipal Water District. Woody says the manuscript on this study is "about done."

After a large (for us!) graduating class of six last year, two students received the B.A. this year. Eric Sundquist (student body Prexy) will go to Harvard next year. Wayne Pierpoint (a powerhouse on the Pomona Sagehens) is still undecided as to future plans. Next year will apparently be another "large" class with five seniors and a special student. The latter, Jeff Dunn, a music B.A. from Grinnell, will complete our major for his "second" effective B.A. degree.

The department library continues to be our pride and joy. Additional stacks were added this year to accommodate greatly increased holdings—primarily journals. We estimate that about 10,000 volumes on all aspects of earth science are at hand. In addition, the separates collection has grown to nearly 13,000 items. The quality and ease of access to these holdings are tremendous aids to teaching and research. Woody's close watch over the library is a major factor in its continued excellence.

Don Zenger returned to Claremont in early September 1969, following a most successful and enjoyable year at the University of Liverpool where he studied carbonate petrology with Robin Bathurst and saw much of the type Paleozoic. In May and June of 1969 the Zengers vacationed in the Netherlands, Germany, Austria, Switzerland, and Italy. In July and August Don completed a field study on the Cambrian Little Falls Dolostone of east-central New York as a Temporary Geologist for the New York State Geological Survey. This past March his proposal to
continue his study of "Petrology of Dolomitic Rocks" for two more years was accepted by the Petroleum Research Fund of the American Chemical Society. Don has been appointed to the Council on Education in the Geological Sciences and has attended meetings in Tucson, Houston, and St. Louis this spring. Publications include "Stratigraphy and Petrology of the Lost Burro Formation, Panamint Range, California" in Division of Mines and Geology Special Report 100 with Gene Pearson '67, and "Role of Rapid Events in Earth History" in Journal of Geological Education. In March he presented "Supratidal Dolostones: an overemphasis on their significance in the Geologic Record" at the Pacific Coast meeting of the Society of Economic Paleontologists and Mineralogists at Newport Beach.

The Geological Society of America held its annual three-day meeting for 1969 in Atlantic City, November 10-12. This meeting was preceded by the two-day celebration of the Mineralogical Society of America's 50th anniversary. Each meeting was climaxd by an unusual dinner. President Frank Turner of Berkeley served floods of a truly remarkable French wine at the Mineralogical dinner. Neil Armstrong gave a first-rate geological description of his walk on the moon to the 1700 people at the Geological dinner. Among those who gave papers at the meetings were Wayne Burnham '51, Ivan Colburn '51, Norman Hyne '61, Dave Pollard '65, Barry Raleigh '56, Jerry Winterer '45, and Tom Wright '57. Others present included Donald McIntyre, over from Scotland, Donald Zenger, A. O. Woodford '13, C. A. Anderson '24, Mason Hill '26, Dana Russell '27, Robert Bean, Warren Addicott '51, Don Doehring MA '65, and Mary Taylor '67.

At least fourteen Pomona-Claremont geologists attended the Pacific Section AAPG-SEPM convention at the Newporter Hotel March 19-21, 1970. Jack Vedder '48, Ivan Colburn '51, and Jack Schoellhamer '42 were leaders of the Saturday field trip to the San Joaquin Hills and Santa Ana Mountains. Ivan Colburn was 1970 secretary of the western SEPM and also presided at one of the scientific meetings. Warren Addicott '51 and Don Zenger gave talks. Jim Taylor is 1971 vice-president of the SEPM Pacific Section. Others present were A. O. Woodford '13, Mason Hill '26, Rodman Cross '33, Howard Stark '48, Frank Goodban '49, John Forman '49, Cortez Hoskins '53, and Jim Groom '55.


Charles Anderson '24 is going to Japan in August of this year to attend the meetings of the IMA-IAGOD (international Mineralogical Association, International Association for Genesis of Ore Deposits), and field trips before and after the meetings in Tokyo and Kyoto. He plans to visit Japanese and Korean mines that are similar to the ore deposits that he has been studying in Arizona and that were the subject of his presidential address for the Society of Economic Geologists.

Russell Dysart '25 is enjoying his flowers and other pleasures of retirement in Santa Barbara.
Mason Hill '26 was Distinguished Lecturer of the American Association of Petroleum Geologists in the fall of 1969. He talked about sea-floor spreading and the structure of western North America at many colleges, universities, and A.A.P.G. section gatherings.

M. P. Yackel '27 is selling a large part of his fine mineral collection, preparatory to selling his home in Scarsdale, New York, and moving to New England.

Dana Russell '27 was president of the American Institute of Professional Geologists in 1969. He spent much time on Institute business, and gave talks at many places widely distributed over the whole country. He also published a history of the Society of Economic Paleontologists and Mineralogists.

Rollin Eckis '27 has sold his estate in Bradbury and now lives at Bunker Hill Towers in Los Angeles. He is partially retired, but still superintending the construction of the Atlantic-Richfield Tower in Los Angeles. No doubt he will move in due time to his citrus ranch in Pauma Valley, San Diego County.

Jack Cowan '27 is now Thurston County Assessor in Olympia, Washington, in addition to his many other jobs.

Murray Putnam '28 on December 1, 1969, completed 41 years as petroleum engineer and oilfield superintendent with the Standard Oil Company of California, San Francisco. The majority of his experience was in the San Joaquin Valley, later at Naval Petroleum Reserve at Elk Hills.

After living in Rolling Hills for 23 years, Manley Natland '28 sold his hilltop estate and has moved to Laguna Beach. He retired in 1967 from Atlantic Richfield and is now a full-time consultant for Union Oil Company at their Research Center near Brea.

Dean Pollard '34 was transferred by Pacific Telephone to their headquarters in San Francisco as Vice President Operations-Staff. He and his wife are now living in Alamo.

John Shelton '35 spent May and June 1970 conducting an institute of geological education, under the auspices of the U. S. National Science Foundation, at Bangalore University, far south in the Precambrian complex of the Indian peninsula. He made use of the full set of films that he has made in recent years for Encyclopedia Britannica Films.

George Bellemin '35 and his wife Julia went around the world on a 3-month boat trip in the autumn of 1969. They spent two weeks in Europe, two weeks in South Africa, and some time in Australia.

Rosalie Davis Matlovsky '36 and her husband took a train trip last August to Denver where they visited Vera and Dick Ten Eyck '35, then continued on to San Francisco where Rosalie attended a PTA Conference. She is just finishing a term as President of the South Pasadena PTA Council.

Willard Stearns '38 is chairman of the University of Texas Bureau of Economic Geology's Well Sample and Core Library. The enormous collection of cores, other samples, and well records was increased during 1969 by 1,134 volumes of well records from Cities Service Oil Company, 11,000 feet of Cambrian cores from
Lehmann and Associates, and many other valuable gifts. It is most unfortunate that California does not have a similar library. Early in 1970 a great collection of Los Angeles Basin cores made by Shell Oil Company was destroyed for lack of a public recipient able to pay the costs of storage.

Robert Reed '38 has joined the well known engineering firm of Ford, Bacon, and Davis, Inc., in New York, as Chief Geologist. He will be in petroleum and mineral development: geologic and geophysical exploration, estimates of reserves, etc.

Wallace W. Wilson '40 is a member of the Engineering Committee of the Interstate Oil Compact Commission. He appeared in Washington last year as a witness for four petroleum organizations, trying to minimize the reduction of the depletion tax allowance. Unfortunately, he was not wholly successful.

Martha Ryder Smith '42 continues with her graduate courses at the University of Utah.

Franklin Olmsted '42 has been transferred by the U. S. Geological Survey from Yuma to Washington, D.C., where he is Staff Ground Water Representative for the Atlantic Coast Region of the Water Resources Division.

Don Eberlein was married to Marilyn Pollard in Oakland, California, on 6/16/69. They are now living in Monte Sereno, California. Don is employed by the U. S. Geological Survey in Menlo Park and is engaged in collaborative research with Dr. C. L. Christ on the interrelationship of thermodynamic properties to structural attributes (optical, X-ray) of crystals.

George Holstein '44 is a general contractor and is busy building homes and condominiums in Orange County and vicinity. The Holsteins visited the Caribbean in February and plan a trip to the Hawaiian Islands this summer.

Don Van Sickle '44 has been elected president of the Roswell Geological Society for the year 1970-71.

Ed Beaumont '44 has been busy running Southwest Public Service Company's core drilling operation west of Farmington, New Mexico, where the Company plans to build a large fossil fuel electric generating facility.

George Clark '46 on August 11, 1969, became head of the computer statistical division of Carte Blanche. Headquarters are on Wilshire Boulevard, Los Angeles. George and his family are still living in Claremont.

Kenneth Segerstrom, still with the U. S. Geological Survey, in Denver, finished a field assignment in northwest Colorado and is starting a new geologic mapping project in the Jicarilla Mountains of New Mexico. Last year he spent three months in northern Chile interpreting structural features visible on Apollo 7 color photos. For the next several years he will spend 1/4 of his time on similar interpretive work on other space photographs of Chile, Peru, and Bolivia.

Professional Paper 679 of the U. S. Geological Survey, written in August 1969 and published two months later, was of more than usual human interest. It dealt with the oil blowout of 1969 in the Santa Barbara Channel. The most important chapter, on the geology of the offshore area where the blowout occurred, with
technical descriptions of the events that led to the disaster, was written by Thane McCulloh '49. Other authors included J. G. Vedder '48, J. E. Schoellhamer '42, and Robert Yerkes '50.

Don Seely '49 continues as a research geologist for Esso Production Research Company in Houston. His present work involves the administration of schools in structural geology, and studies of salt tectonics and transform plate margins.

John Forman '49 is now working in the downtown Los Angeles Mobil Oil office. He says he is looking for a vacant lot where he can play baseball; perhaps he will organize sailboat races in Echo Park. His oldest son graduates from high school in June and plans to attend the University of California at Santa Barbara in the fall.

Jim Taylor was chairman of the extremely successful SEPM field trip in Ventura County in the autumn of 1969.

Bob Yerkes '50 celebrated the graduation of his daughter Neanna with the P.C. class of 1970, magna cum laude, Phi Beta Kappa. Last September Bob delivered a paper on surface deformation over U.S. oil and gas fields to the International Symposium on land subsidence, held in Tokyo, Japan.

Ivan Colburn '51 has been promoted to full professor of geology at Cal State, Los Angeles. He continues his research work on basin analysis of California Cretaceous deposits under sponsorship of the National Science Foundation.

Richard Lounsbury continues his teaching at Memphis State University where he is developing an engineering geology program. Major projects continue in foundation and soils studies and concrete. He was recently appointed to ASTM Committee D-18 on Soil and Rock for Engineering Purposes.

Willis Burnham '51 is District Chief of the U. S. Geological Survey Water Resources Division Idaho District, with three offices and a staff of 35. One of the more interesting problems being studied is the occurrence and movement of groundwater in the enormously productive Snake Plain basalt aquifer.

C. Wayne Burnham '51 is in Canberra, Australia, doing special studies. He expects to return to his post at Pennsylvania State University in November 1970. Wayne is a specialist in Experimental Petrology.

Warren Addicott '51 on October 13, 1969, was elected Fellow of the California Academy of Sciences.

Richard Duenckel '54 continues at Lockheed in Burbank after 13 years as engineering planning coordinator. Our last Newsletter should have included the news that the Duenckel's fourth girl, Marla Lynn, was born on October 5, 1968.

Jim Parsons '56 and family have been transferred back to the Los Angeles area and are living in Beautiful Uptown Burbank. Jim's work for the California Department of Water Resources now involves surface and groundwater hydrology as well as geology. He is constructing mathematical models for use in management planning.
Grant Meyer '57 and family have returned from India and are now living in Connecticut. He is making plans for future expeditions to Iran and Spain.

Tom Wright '57 is back at U. S. Geological Survey headquarters in Washington, writing a series of papers that had their origin in his tour of duty at the Vulcanological Observatory in Hawaii. When these papers are finished Tom intends to turn to the volcanic rocks of the Columbia River Plateau. He is about to become a managing editor of the Journal of Petrology.

Stan Madsen '57 is a senior project engineer for Converse, Davis, and Associates, Pasadena. Stan got an M.A. in geology at U. C. L. A. in 1959, and a Bachelor of Civil Engineering at the University of Minnesota in 1964. He became a registered civil engineer in California in 1966, and has applied for registration as an engineering geologist. For the last three years he has worked on the Castaic Power Project as consultant for the Los Angeles Department of Water and Power. He has submitted a paper, "Sampling in Sedimentary Rock" for the Symposium on Sampling of Oil and Rock at the ASTM Annual Meeting in Toronto later this year. Stan and his wife and two girls (3 and 5) live in Pasadena.

Pat Muffler '58 is making a 9-month geochemical study in New Zealand for the U. S. Geological Survey. He took a few weeks off to make a study and report on thermal resources of Java.

Bob Tilling '58 and David Gottfried are the authors of an important paper on radiogenic heat production and heat flow in the Boulder batholith region, Montana—U.S.G.S. Professional Paper 614-E. Apparently the content of heat-producing elements decreases with depth. Bob is an officer of the Geochemical Society.

Barry Watson '59 is now a Vice-President of Geodata Systems of Orange, California. He is a registered geologist in the State of California and presently is serving on the Executive Council of the Mining Division, Southern California Section of the A.I.M.E.

Art Sylvester '59 continues his studies on seismicity and earthquake hazards of the Santa Barbara Channel, and is also doing research on the structural analysis of pre-Tertiary rocks in the White-Inyo Range in eastern California. He will be doing field work on these two projects during the summer.

John Olmsted '59 will instruct in botany this summer in the Mammoth Lakes area of the Sierra Nevada for U.C. Berkeley Extension. He and his wife Priscilla and son Erik will be moving to Sonoma County from Mendocino, California.

Dan Crotty '59 and his wife, who live in Portland, Oregon, have sent an announcement of the birth of a son, Robert Daniel, on April 21, 1970.

Bill Quaide has been working on moon dust for N.A.S.A. He is stationed at Ames Research Center, Moffatt Field.

Ed Welday has joined the staff of the California Division of Mines as a marine geologist. He is stationed at the Ferry Building in San Francisco.

Doug Sprague '62 continues his job at the Global Marine Company with mineral investigation responsibilities in the marine environment. He became a registered geologist in the State of California early this year, and is also continuing his graduate studies at U.S.C.
Carmen Fimiani '66 has returned home from a 13-month tour flying helicopters in Viet Nam for the Marine Corps. He is now residing in Laguna Beach and is stationed at El Toro.

Hugh Slawson '66 is a graduate student at Scripps Institution of Oceanography. He is, among other things, determining trace elements in sea water and in sediments.

In connection with his studies at Concordia Theological Seminary in Springfield, Illinois, Mike Holsten '66 went on a Bible Lands Seminar/Tour last spring. He traveled through Egypt, Israel, Turkey, and Greece, as well as Italy and Germany. This summer he is participating in a Clinical Pastoral Education program at a hospital in Kansas, and next fall he will be coming to Garden Grove, California, for a year of vicarage.

Mary Taylor '67 continues her graduate work for a Ph.D. at the University of Wyoming.

Gene Pearsons '67 is also at Wyoming working for a Ph.D. His thesis is titled "Origin and diagenesis of the lower half of the Goose Egg Formation (Permian) of southeast Wyoming."

Cal Miller '69 is doing graduate work at George Washington University in Washington, D.C., while serving with the Search and Rescue Division of the Coast Guard.

Mark Liggett '69 got an M.S. at the University of California, Santa Cruz, in June 1970.

Richard Jarrard '69 is just finishing his first year of graduate study in marine geology at Scripps Institution of Oceanography. He will be visiting Western Samoa this summer, and from there will go by ship to Honolulu, measuring paleolatitudes of seamounts by magnetics.

Dave Vaniman '69 got an M.S. at the University of California, Santa Cruz, in June 1970. He will be going to Africa in August and will be teaching high school there for 3 years under the sponsorship of the Mennonite Central Committee.

Of the class of '71, during this summer Tom Doe is working on a petrologic study of the contact metamorphosed marble at Slover Hill, Colton, California, in the employ of the California Portland Cement Company; Steve Bushnell is doing field mapping in Alaska for Anaconda; and Jeff Dunn is attending three field courses across the country.

A very special Thank You to those of you who have sent in contributions during the year to the Woodford Alumni Fund.
IN MEMORIAM

Rodman K. Cross '33 11/30/70
Rudolph Fekete '52 9/14/69
David H. Howell 1/30/71
Philip E. Jackson '51 9/21/70
Mrs. H. L. Thackwell '36 9/10/70
(Barbara Cole)
M. P. Yackel '27 7/1/70

Our losses by death are far more severe than ever before. We have lost good friends of long standing who were greatly skilled. Rod Cross was an outstanding draftsman and artist, as well as an oil finder. He drew many of the plant illustrations for Professor Philip A. Munz' books.

Rudolph Fekete was a hard-rock mining specialist. Dave Howell was a skilled shop man and spectroscopist as well as an ocean sailor. Phil Jackson was widely considered the best diver in southern California. Barbara Cole was an accomplished shell collector. Ted Yackel was the perfect mineral collector, for he had an eye for quality and beauty in mineral specimens, as well as great skill and judgment. Ted's collection of 4,000 selected specimens has been given to the Scarsdale (New York) high school.

The Pomona College Geology Department is doing well. Most classes were large during the past year, and some promise to be even larger next year. The beginning courses had the biggest total enrollment ever, 175 students. Next year, the advance registration for Mineralogy is 13. The department is experimenting with new courses; 5-week "short courses" are now possible. Don Zenger had an especially successful experience with one called "Configuration of the Earth." Course offerings have been modernized and the following semester courses are included in the regular program: Geophysics and Global Tectonics, Geochemistry and Mineral Paragenesis, and Geological Oceanography.

Woody is as active as usual. His research continues unabated with a paper on "The Pliocene and Pleistocene History of The Perris Block" (co-authors Don Doehring, John Shelton, and Dick Morton), to be published in the Geological Society of America Bulletin. He continues his position as Editor for the Freeman Company's Earth Science Series, as well as seeking out important additions to our geology library. Woody's informal rapport with the students is excellent, as always. In addition, he has given occasional class lectures in historical geology.
Alex Baird has been promoted to Professor of Geology. He will be on sabbatical the first semester of the 1971/72 academic year, and will stay in Claremont so as to be able to use the department's analytical equipment. He will finish up several projects, notably his studies with Douglas Morton and Kathy Baird of the plutonic rocks of the Lakeview Mountains east of Perris. This time analyses for minor elements will be made on samples already analyzed for major elements. Some of Alex's attention will be given to work brought to Claremont by William Wadsworth, Associate Professor of Geology at Idaho State College, Pocatello. Wadsworth will be in Claremont for a year on a National Science Foundation Science Faculty Fellowship taking advantage of the Pomona College staff skills and special equipment.


A. K. Baird, K. W. Baird, and D. M. Morton have a paper in the May 1971 issue of the Bulletin of the Geological Society of America, "On deciding whether trend surfaces of progressively higher orders are meaningful." This is an outcome of a disagreement with Felix Chayes of the Carnegie Institution. The discussion has proved to be quite an exhilarating experience!

Donald McIntyre was chairman of the G.S.A.'s Committee on Honorary Fellowships. He gave the banquet address at the Las Vegas meeting of the National Association of Geology Teachers. Donald wrote "Introduction to Data Matrices" in "Mathematical Geology," published by the American Geological Institute. He is spending part of the summer working with K. E. Iverson, inventor of the APL computer language, at the IBM Scientific Center in Philadelphia. In September he will give an address at the University of Edinburgh's Geology Centennial on "James Hutton and the Rise of Scottish Geology."

Don Zenger has given talks on dolomitization at the University of Southern California and California State College, Long Beach. In April he attended a conference on calcareous algae at the University of Miami, Florida. He is co-editor of the Council on Education's report on Introductory Geology at the college level. Don's work continues on the petrology of dolomitic rocks, sponsored by the American Chemical Society. He is also in the middle of a field and petrographic study of the Little Falls Formation (Cambrian) in New York.

Among those attending the annual meeting of the Geological Society of America in Milwaukee in November 1970 were: Warren Addicott '51, Charles Anderson '24, Alex Baird '54, Robert Bean, Wayne Burnham '51, Don Doehring, Mary (Taylor) '67 and Ray Harris, Mase Hill '26, Barry Raleigh '56, Dana Russell '27, A. O. Woodford '13, Tom Wright '57, and Don Zenger (apologies to others we may have missed!).
Alex Baird represented the College at a Colloquium '70 for the teaching of geology in colleges and universities. Barry Raleigh gave a paper on Earthquakes and Water Flooding in the Rangely Oil Fields. Tom Wright gave a paper on the Interpretation of Chemical Data of Igneous Rocks.
The biggest meeting ever held by the Cordilleran Section of the Geological Society of America was at Riverside March 25-27, 1971. More than 1,300 persons registered and the abstracts of papers covered more than 100 pages. Ivan Colburn '51 and Donald McIntyre were on the Program Committee, and Ivan arranged and presided over a Transverse Range Province Symposium. Warren Addicott '51 and Donald McIntyre were on the Nominating Committee, and Warren presided at a paleontology session. Mase Hill '26 was co-chairman of the Structural Geology section and gave a paper on transform vs. strike-slip faults. He was hailed by his fellow co-chairman, Lee Silver of CalTech, as the "Voice of Reason." Doug Morton and Cliff Gray led a field trip to the Perris Block, Elsinore Trough, and San Jacinto Trough.

About a dozen papers were given by Pomona-Claremont people. Warren Addicott spoke on Neogene marine molluscan paleontology on the west coast of North America. Andy Anderson '24 (and Ed McKee) described the ages of basalt flows in north-central Arizona and their relationship to the Colorado Plateau province. Andy was also co-author of a paper on Arizona Precambrian rocks. Alex Baird '54 (with Kathy Baird '62, Doug Morton, and Woody as co-authors) described the petrologic and structural unity of the Transverse Range Province, right across the San Andreas and other faults. During the discussion, Thane McCulloh '49 made some stirring comments. Ivan Colburn gave a paper on the Cretaceous paleogeography of the Transverse Range Province. John Forman '49 reported on basement rocks at Magdalena Bay, Baja California. Rosi Grannell '62 gave papers on gravity distribution in the San Gabriel Mountains and on details for the anorthosite body. Doug Morton (and Alex Baird) described the Paloma Valley ring-dike complex east of Elsinore. Pat Muffler (and A. Griscom) reported on an aeromagnetic survey of the Salton Sea geothermal field. Brian Tucker '67 contributed to two papers on earthquakes on the San Jacinto Fault: Anza and Lytle Creek. Bob Yerkes '50 described the geology of the Los Angeles Basin and Santa Monica Mountains, emphasizing shoreline trends and fault displacements. In a companion paper, Bob's colleague R. H. Campbell related this history to plate tectonics.

Among others present at Riverside were Herb Adams '61, Frank Goodban '49, Stanton Hill '33 and his wife Mary, Tom Jeter '57, Jess Parsons '50, Jim Richmond, John Shelton '35, Martha Ryder Smith '42 and her husband Larry (down from Salt Lake City), Doug Sprague '62, Art Sylvester '59, Jack Vedder '48, and Don Zenger.

Charles Anderson '24 has been completing reports on his work in central Arizona in anticipation of retirement in June 1972. (One is U. S. Geological Survey Bulletin 1324-C "Revision of Precambrian Stratigraphy in the Prescott-Jerome area, Yavapi County, Arizona.") Last August he made a trip to Japan for the IMA-IAGOD meetings and visited the famous "kuroko" deposits in northern Honshu, which are copper-lead-zinc ore bodies associated with Miocene submarine rhyolitic rocks. These deposits have many similarities to the Precambrian copper deposits at Jerome which he has been studying for many years, and have the virtue of not being metamorphosed nor related to plutonism. He is now in the process of writing a new interpretation of the origin of the Jerome copper deposits.
Mase Hill '26 had a paper in the American Association of Petroleum Geologists Bulletin of January 1971 titled "A Test of New Global Tectonics: Comparisons of Northeast Pacific and California Structures." He has given numerous talks on this general subject at places that include Scripps Institute of Oceanography at La Jolla and the Pomona College Geology Department. Mase spent a semester as Visiting Professor at Whittier College teaching structural geology.

Dana Russell '27 and wife spent June, 1971, in eastern Europe, including a week in Moscow at the World Petroleum Congress. After a year of half-retirement from the Marathon Oil Company, with travel to oceanographic institutions all over North America, Dana has set up a consulting office at his home in Estes Park, Colorado. Daughter Nancy, who spent two years at Pomona, is now a Ph.D. in cultural anthropology and with her husband Ted Graves is now on the anthropology staff at U.C.L.A. Son Richard has a house construction and repair business in San Francisco.

Manley Natland '28 has submitted to the American Association of Petroleum Geologists Bulletin a paper on the micropaleontology and geology of the Magallanes Basin of southern Chile. Manley and his son Jim, who also attended Pomona before his graduation from the Colorado School of Mines in 1958, have formed Natland Associates. They are now sellers of polished Pliocene marble coffee tables and smaller pieces from the excavation for the foundations of the Atlantic-Richfield Plaza towers at 6th and Flower Streets, Los Angeles. They are dealing with 500 tons of breccia which is being cut up and polished for them in Italy. The first large deliveries were made in June, 1971. They operate from Nat's home at 333 Weymouth Place, Laguna Beach 92651. Purchases can also be made at the Los Angeles County Museum of Natural History. The breccia or coquina is from a bed 140 feet long and 4 feet thick which did not extend beyond the limits of the basement excavation. Though made up chiefly of shallow-water mollusks, it was confined between deep-water foraminiferal mudstones.

Art Colley '31 spent last year as chief of work for AID in VietNam. He and his wife Frances (Scripps '30) have been living in Bangkok, Siam.

Stanton Hill '33 (professor of geology and mineralogy at Pasadena City College) has been named winner of the Neil Miner Award presented annually by the National Association of Geology Teachers. The award is for "exceptional contributions to the stimulation of interest in the Earth Sciences." Stan is the first community college teacher to be so honored and the second Californian. A. O. Woodford was the first.

Guilford Gaylord of Reno is Assistant Manager of the Standard Slag Company exporting iron ore. Gull Gaylord Jr. graduated from Harvard Law School in June 1971 and was married to Karen Garvin of Ohio on June 20. The Gaylord daughter just completed her first teaching year in Santa Maria, California.

George Bellemin '35 has just completed his first year as chairman of the Earth Science Department at Los Angeles City College. This department has as subdivisions: earth science, geography, geology, anthropology, archaeology, meteorology, mineralogy, paleontology, oceanography, and environmental science.
On a recent trip to Europe Louis Simon '35 was a guest at the Geological Society of London annual anniversary dinner meeting. He was seated beside two associates of Donald McIntyre from the University of Edinburgh.

Robert Reed '38 is working for Ford, Bacon, and Davis on oil and gas development problems in Alabama. His wife Ruth is a real estate agent who has just sold the Scarsdale home of the late Ted Yackel '27.

Jane Everest Gregory '38 and her husband Joe, Professor of Paleontology at U.C. Berkeley, are spending the summer in France and England. Their son Carl graduated from U.C. Riverside Phi Beta Kappa in chemistry. Their daughter Sarah will be a freshman at Radcliffe this fall.

Wally Wilson '40 is still looking out for the mineral-industry interests of his Chicago bank. He is now concentrating on coal. He has an occasional contact with Melvin Swinney '40, who is mineral man for the Southern California Edison Company and is also now concentrating on coal.

Jack Schoellhamer '42 has become Chief of the Pacific-Arctic Branch of Marine Geology of the U. S. Geological Survey. His wife Lish graduated from San Jose State College in 1970. Son Paul is a graduate of U.C. Santa Cruz; he is now building geodesic domes. Daughter Janet is a PE major at U.C. Santa Barbara and teaches swimming during the summer. Son David (age 11) "keeps his old folks loose."

Alex McKenna '42, who has been an electronics engineer for 25 years, is now headquarters manager for Simulation Councils, Inc., an engineering society that provided technical training for astronauts. Their simulators were used to explain the moon landings to the public. The company is now getting into ecology. Alex finds that his geologic training is useful.

Jerry Winterer '45 just returned from another wonderful two-month cruise (leg 17) of the drilling ship GLOMAR CHALLENGER into the central Pacific. The Leg 7 report (1700 pages, 2 volumes) on the work Jerry helped with nearly two years ago in the same general region, should be published in August. Jerry plans to be at the Pacific Science Congress in Canberra this summer to give a paper on the History of the Pacific Plate. Next spring he will take a short sabbatical in Geneva, and hopes to look at a lot of ancient pelagic limestones and radiolarites in the Alps.

Jack Vedder '48 (with R. E. Wallace) has published a U. S. Geological Survey Geologic Investigation Map (I-574) showing recently active breaks along the San Andreas and related faults between Cholame Valley and Tejon Pass, California.

Kenneth Segerstrom's present activities in the U. S. Geological Survey are about equally divided between interpretation of orbital photography (field work in Argentina and Peru), genesis of placer gold (Jicarilla Mountains, New Mexico), and wilderness studies (Sierra Blanca, New Mexico). Home base for Ken, his wife, and high school-age son and daughter is still Denver.
Thane McCulloh '49 has become Director of the School of Earth Sciences of the University of Minnesota. Administration and coordination of the activities of the Department of Geology and Geophysics, the Minnesota Geological Survey, and the Limnological Research Center will consume that part of his time that isn't spent continuing his research interests in the geology of petroleum and related matters.

Homer (and Bette) Simmons '49 are in Holland, where Homer is an officer of N.V. Nederlandse Aardolie Maatschappij.

John Forman '49 published an important article on the "Age of the Catalina Island Pluton, California" in 1970 in the Geological Society of America's Special Paper 124. The K-Ar age of this quartz diorite pluton is 19 million years, about the same as the Telegraph Peak Pluton in the San Gabriel Mountains near Mt. Baldy. A Catalina Island amphibolite was dated at 106 m.y. These dates give the local earth historians important datum points.

Cliff Gray, Los Angeles District Geologist for the California Division of Mines and Geology, was co-author of a paper dealing with the geology of the Peninsular Range Province for the American Association of Petroleum Geologists Future Petroleum Province Volume. With Charles Chesterman, also of the Division, he completed mapping in the Bodie area. They and Bill Silverman of the U. S. Geological Survey have submitted a paper to the International Geologic Congress on the age of the Bodie rocks.

Los Angeles State College in December held several big parties for Jim Richmond, who retired from his position as Professor of Geology. Several of Jim's old Claremont friends were present at one of the dinners. State College officials obviously felt that Jim's retirement marked the end of the highly successful pioneer stage in the College's development.

Warren Addicott '51 spoke on "Tertiary Climatic Change in the Eastern North Pacific; Evidence from Shallow Water Molluscs" at California State College, Los Angeles, on May 3, 1971.

Wayne Burnham '51 was one of the guest speakers during the fall of 1970 at the University of Wyoming, Laramie. The weather was cold and the discussions were stimulating.

Willis Burnham '51 was transferred to Hawaii in March 1971 and is now District Chief, Water Resources Division, U. S. Geological Survey, in Honolulu. His son Greg is in VietNam and Greg's wife Susie is with Rose and Willis in Hawaii; they live in a new home on a ridge overlooking Diamond Head, Waikiki, and parts of Honolulu. Willis says that island hydrology and geology are fascinating but there is too much water between exposures. The district boundaries include all the islands of Hawaii, Okinawa, Guam, and the Trust Territories of the Pacific and American Samoa.

Ivan Colburn '51 had a year-long 1970/71 sabbatical, with a grant from the National Science Foundation, to study California Cretaceous sediments and structures. He worked at the L. A. State geological laboratory, but he lived at Newport Beach.
John Levorsen '53 is doing petroleum geology for the Alaska Division of Oil and Gas. He is 1971/72 secretary of the Alaska Geological Society.

Duncan English, M.A. '53, has been in Houston for the Shell Company for 5½ years. He has been Chief Exploitation Engineer and Division Production Manager; he is now Manager of E & P Information Systems, in charge of the commercial and technical applications of computers. He is trying to control the computers before they control us. He is "well along the road in constructing a giant harness for the things." Dunc's daughter has graduated from college, and one son just graduated from high school. Dunc sends his best regards to his old Claremont friends. These include several who still make good use of the amazingly large results of his thesis on the San Timoteo badlands.

After five fruitful years with the United Nations, during which he served as coordinator of groundwater projects in the technical assistance program and saw quite a bit of the world, Robert Bean (who worked in Claremont during the war years) is returning to California this summer. He will be a consultant in groundwater geology and engineering geology and will also have a working agreement with Glenn A. Brown and Associates. He will appreciate any business being directed to him at P.O. Box 10127, Glendale, California 91209.

Barry Raleigh '56 was joint author of "Earthquakes induced by fluid injection and explosion" in Tectonophysics 1970, v. 9, 205-214. Barry emphasizes the significance of the Geological Survey's dewatering experiment at the Rangely oil field in northwestern Colorado. As the water was pulled out of the ground, the earthquakes that had been stimulated by secondary recovery processes began to die out (see Newsweek 5/24/71).

Neville Carter '56 has accepted the appointment of Professor of Geophysics in the Department of Earth and Space Sciences, State University of New York, Stony Brook, Long Island, effective September 1971. Carter will be leaving Yale with a view toward establishing a group in Tectonophysics at Stony Brook. Initially this group will have five members, but it will grow as the university expands. Neville had 2 papers in the Geological Society of America Bulletin of August 1970: "High temperature flow of dunite and peridotite" as joint author, and "Syntectonic recrystallization of olivine and modes of flow in the Upper Mantle." He also had a paper in the October 1970 issue of the American Journal of Science: "Temperature and rate dependent deformation of Halite" (with Hugh Heard). Neville has been elected Secretary of the Tectonophysics section of the American Geophysical Union. Neville, his wife Kathleen (Pomona '59), and three children (plus dog) are all looking forward to the move to beautiful Long Island.

Grant Meyer '57 in April, 1970, headed a team that collected vertebrates in northern Iran and western Afghanistan. The party discovered many new localities. Then he went slowly through the Mediterranean region to Spain. In August he collected in the Big Horn Basin of Wyoming. Three months late in the year were spent in marvelous collecting in the Pyrenees of northern Spain, near the Andorra border. He is spending the summer of 1971 in Wyoming, and in September goes back to Spain for three months and then to Pakistan for three more months.
Tom Wright '57 has been writing up his work on Hawaii lavas. He had a paper in the July 1970 issue of the Geological Society of America Bulletin (with Patrick Doherty) on "A linear programming and least squares computer method for solving petrologic mixing problems." In the February 1971 Journal of Petrology he had a paper (with Richard Fiske) on "Origin of the differentiated and hybrid lavas of Kilauea Volcano, Hawaii." Tom has also been working with the petrology of basalts brought back by Apollo 11 and 12 missions, and hopes soon to begin a project on the chemical evolution of the Columbia Plateau. Tom's thesis at Johns Hopkins '60 was on the Tatoosh Intrusion in Mt. Rainier National Park. In Science 5/21/71 is published a study of the remanent magnetism of Tom's intrusion. "The distribution of normal, reverse, and intermediate rocks within the body is not random, but gives a relatively simple pattern, which can be explained by the motion of the cooling front proposed by Wright." This is the first time that a detailed record of the reversal of the earth's magnetic field has been obtained. The work on the magnetism was not by Tom but his work provided the basis.

Pete Newman '57 and wife (Mary Stone '59) with their two sons, David and Michael, have been living in Djakarta, Indonesia, for the past three years where Pete is senior geologist for Atlantic Richfield Oil Company. The Company has a 21,000 square mile offshore lease on the north side of the island of Java, and has recently discovered several commercial oil fields. One well penetrated a basement vein that contained zeolites, and the very rare Crestmore silicocarbonate scawtite. Pete has sent the department a fine slab that includes a foot of vein material. We are working on the material, which may include a new mineral. Pete has been in Indonesia longer than any other employee of Atlantic Richfield. Mary is putting out a monthly local news bulletin to the American colony. When they returned for a visit to the United States last year, Pete gave Pomona College a collection of 17 tektites that he had picked up in various areas in Java.

In October 1970 Stan Madsen '57 went to work for Fugro, Inc., a Dutch firm of consulting engineers and geologists. Stan is stationed in Long Beach, doing work in both soil engineering and geology. Recently he has been concerned with damage caused by the San Fernando earthquake. "The evaluation of faulting and the dating of fault movement have become critical factors in the design of large structures." Stan, his wife, and two small daughters are living in Huntington Beach.

Pat Muffler '58 spent January through August 1970 in Wellington, New Zealand, working with the Geophysics Division of the D.S.I.R. on the use of geophysical techniques (particularly resistivity) in exploration for geothermal resources. He came back to the United States via a United Nations Symposium on the Development and Utilization of Geothermal Resources in Pisa, Italy, in September 1970. He also visited a geothermal area in Turkey. In January 1971 he had a hurried trip to Indonesia to evaluate geophysical, geochemical, and geological work done in 1970 on the Dieng geothermal area in central Java. Pat has been working on reporting the results of his Yellowstone mapping and drilling and is co-author of a paper published in the March 1971 issue of the Geological Society of America Bulletin: "Hydrothermal explosion craters in Yellowstone National Park."

John Olmsted '59 and his wife Priscilla have bought a house in Glen Ellen, Sonoma County, California. John continues to teach popular ecology courses for the University Extension at Berkeley and the rest of his time getting support to buy coastal property for a Nature Center near Mendocino, California.
Art Sylvester '59 in November 1970 gave a talk on "The structure of the central Mecca Hills" at California State College at Los Angeles. Art has been active in the study of earthquake hazards in the Santa Barbara Channel and especially of the possible relationship between earthquakes and oil leakage. In Science 9/18/70 he published a proposal that wells might be used as barometers of tectonically induced variations in fluid pressure to predict earthquakes.

Barry Watson '59 has left Geodata Systems of Orange, California, and accepted employment with U. S. Borax as District Geologist for the Pacific Northwest states; he is based in Spokane, Washington. This summer he has one permanent geologist, one loaned geologist, and 6 student helpers working out of that office. They are hunting base- and precious metals. U. S. Borax is now a subsidiary company of the large international Rio Tinto Zinc (RTZ). Barry reports that wife, son, horse, dog and cat are doing well on their pine-timbered acre in the hills just southeast of Spokane -- NO SMOG!

Walter Gulick '60 has a one-year appointment at Oregon State University in the Religious Studies Department. They will move to Corvallis from Claremont later this summer. Walter has been working on his Ph.D. dissertation in Religion at the Claremont Graduate School.

John Wickham '60 will be starting his third year as Assistant Professor of Geology at the University of Oklahoma this fall. The first half of the summer he will be teaching the geology field camp in Colorado; the second half he will spend on a tour of the geology of Spain, sponsored by the National Science Foundation. A second daughter, Marta Marie, was born last October. Karen and the girls will spend the last half of the summer in California while John is in Spain. John has received his manuscript on the "Structural History of a Portion of the Blue Ridge" from the Geological Society of America after the usual reviews; the article should appear later this year. He is continuing his research on incremental strain in folded carbonate rocks and is working on a computer program to make the necessary calculations.

Norm Hyne '61 is Assistant Professor of Earth Sciences at the University of Tulsa. In August 1970 he conducted researches, sponsored by the National Science Foundation, in the sediments, Pleistocene history, heat flow, and magnetics at Lake Tahoe. He has also done research on northeastern Oklahoma lakes. Norm has a wife and a four-year-old son.

Doug Sprague '62 received his M.A. at the University of Southern California in June 1971 after five years of work while continuing his work at the Global Marine Company.

Rosi Grannell '62 continues her teaching at California State College in Long Beach. She is concluding her gravity work in the San Gabriels, and during part of the summer she will be doing some further gravity studies in northern Nevada supported by a Geological Society of America Penrose Grant.

The Los Angeles Herald-Examiner of April 13, 1971, carried a news story and photo of Barbara Lowe '63, describing the Los Angeles County Museum's exhibit on the February 9th San Fernando earthquake.
Jim Kelley '63 is teaching a course at the University of Athens. He has a Fulbright grant. Jim is looking forward to a program of oceanographic exploration, perhaps with a new ship, that will make possible automatic computing simulation on shipboard of the oceanographic processes that are being observed. He hopes to make these observations off Peru, Barcelona, in the Aegean Islands (off Greece), and West Africa.

Bob Dickey '64 is one of Ed Heath's ('52) associates in the Beach Leighton firm of engineering geologists. Bob has been notified by the California State Board of Registration for Geologists that he passed the March registration exam with the highest score. Bob and Linda have two small sons; they are living in Brea.

Prue Hickman Beck '64 continues her work in the library of the University of Texas Medical School. She is finishing up her M.S. in library science this summer and expects her degree this month. Her husband will soon be out of the Air Force and expects to enter graduate school in social work.

Steve Norwick '65 will join the geology faculty in the new department at Central Michigan University, Mount Pleasant, Michigan, in the fall of 1971, teaching petrology, structure, and environmental geology. In the summer of 1970, Steve worked with the Pomona College electron microprobe.

Michael Gordon (first child) was born to Virginia and Dave Pollard '65 on May 19, 1971. Dave has just completed his first year of teaching at the University of Rochester. He is responsible for half an introductory physical geology course, a structural geology course, and an advanced structural geology and rock mechanics course. He reports that he has enjoyed the teaching very much and finds the students and faculty interesting and fun people to work with. Dave (and Arvid Johnson of Stanford) have submitted a report on the Henry Mountains of Utah to the Geological Society of America for publication as a Special Paper, and this summer he is finishing a manuscript on some uses of sheet intrusions in structural analysis which he hopes to submit to Tectonophysics. The Pollards say that they like Rochester except for the cold winter weather, rough for native Californians, with winds up to 70 MPH and wind chill factors down to 45 BELOW zero!

Bob Drake '65 has been in Chile for the past 15 months completing research for his Ph.D. dissertation. He returned in May and is now working in the K/Ar age-dating lab at U.C. Berkeley on his rock samples to determine ages of volcanic and structural events in the Andes. His wife Pam was an especially good assistant to him in South America because of her fluent Spanish; she will soon be entering the school of education at Berkeley to get her teaching credential.

Dave Copeland '65 will be taking his Ph.D. prelims at the University of Wyoming this summer. He hopes to go to Africa before long.

Don Doehring will be at the University of Massachusetts at Amherst starting in the fall of 1971. He will be primarily in geomorphology, as an associate of the well-known specialist H.T.U. Smith. Don had a paper in the October 1970 issue of the Geological Society of America Bulletin "Discrimination of pediments and alluvial fans from topographic maps."
Bob Michael '66 has left the Molybdenum Corporation and gone to work for Copper Range Exploration Company of Denver, Colorado. He is one of a two-man staff engaged in hard-rock exploration in Colorado and Wyoming. Last January, between jobs, Bob joined five Colorado friends in climbing Mexico's three highest peaks: Ixtaccihuate (17,343 feet), Popocatepetl (17,887 feet), and Orizaba (18,700 feet). "Fascinating tropical glaciers!"

Carmen Fimiani '66 will be out of the Marine Corps in August. Carmen was a helicopter pilot in VietNam and has been stationed at El Toro the past year. He plans to enter the Stanford Graduate School of Business in the fall.

Zsolt Rosta '67 has been transferred by Phelps-Dodge from sizzling Douglas, Arizona, to Yerington, Nevada, close to the Sierra Nevadas.

Gene Pearson '67 expects to get his Ph.D. in geology at the University of Wyoming by this September. He will join the faculty in the Department of Geology at the University of the Pacific (Stockton) as Assistant Professor in the fall of 1971. Gene had a paper in the summer of 1970 in Contributions to Geology, University of Wyoming, "Conodonts from the Lower Goose Egg Formation (Permian) of southeastern Wyoming."

Mary Taylor '67 was married to Ray Harris in December 1970. Mary is continuing her graduate work at the University of Wyoming and Ray is a fellow student there. Mary and Ray are in New Mexico this summer working in one of Ray's thesis areas on the geochemical environment of uranium ore deposition.

Tommy Thompson '68 is out of the Army and has been attending graduate classes at California State College at Long Beach. He expects to enter U.C.L.A. graduate school in the fall.

Cal Miller '69 was married to Molly (last name?) on April 3, 1971. Molly is working for a Master's degree at George Washington University in Washington, D.C., in paleontology and stratigraphy and hopes to have this by summer. While Cal is still in the Coast Guard he is also attending graduate classes at George Washington.

Richard Jarrard '69 was a scientist on Leg 17 of the voyages of the Glomar Challenger. He is working on the paleomagnetic history of the Pacific plate, using sediments recovered by the drilling project.

Mark Liggett '69 is working for Argus Exploration Company, a research subsidiary of Cyprus Mines Corporation. This company is engaged in studying the application of high altitude and space sensing for the exploration for economic mineral deposits.

Dave Vaniman '69 is working for the Geological Survey of Nigeria and is field-mapping in Kaduna. His first sheet is 1,200 square miles, covered in the field on a 1/50,000 scale. All of it is Precambrian basement, jungle, and Gaboon Vipers(?), and there isn't a road on the sheet. Dave sends greetings to all his friends and would like to hear from you; please write to him at the address given in the Directory of this Newsletter.
Mike Crandall '69 was married to Ellen Starr in July 1970. Mike is continuing his studies at the graduate school of University of Washington.

Eric Sundquist '70 worked for Phelps-Dodge Corporation, sampling an island in Prince William Sound, Alaska, during the summer of 1970. He spent the year 1970/71 as a graduate student in geology at Harvard.

JoAnn Olilla graduated in February 1971. She spent the spring on a sailing ship that went through the Panama Canal and across the Atlantic, visiting, among other places, Martinique and Morocco.

Tom Doe '71 married Paula Nold (PC '71) on June 4, 1971. They will both attend graduate school at the University of Wisconsin beginning this fall. Tom has a Teaching Assistantship in the geology department and Paula has a National Defense Fellowship in Languages.

Jeff Dunn '71 has a Teaching Assistantship at the University of Arizona geology department to begin in the fall.