The Pomona College Geology Department is doing very well indeed, and its teaching members are in wide demand. In the Spring of 1977 Donald McIntyre gave several of his celebrated lectures, on Hutton, John Clerk (the innovator in naval tactics who never went to sea), and other ornaments of Edinburgh's golden age. Clerk's talented and accurate sketches, recently discovered by McIntyre, are being published sumptuously by the Royal Society of Edinburgh, along with an explanatory text mostly written by McIntyre. The McIntyre family have been in Europe since May Day, and Donald has spent most of his time in Scotland, no doubt making more discoveries. In 1977-1978 he will be a Distinguished Lecturer for the AAPG, speaking at many places in the United States. Alex Baird will return to the department August 1, after a solid year and a half at the Jet Propulsion Laboratory in Pasadena, establishing a laboratory and an organization there that included Peter Evans '76, and monitoring the Viking messages. The two Baird analytical laboratories on Mars produced almost the only positive results yielded by the Viking Landers. They have given a knowledge of the composition of the surface material on Mars that is one of the most precise bases of the new planetology. Don Zenger has been at meetings all over the country during the past year, discussing dolomites and other sediments. He is now one of the instructors in the University of Missouri's field geology summer camp in Wyoming. Cal Miller '69 and wife Molly were great successes as Pomona College faculty members 1976-1977. Cal got a Ph.D. in June on a Mojave Desert thesis. Both Millers will be teaching at Vanderbilt University, Nashville, Tennessee, in the fall.

Next year there will be about 30 geology majors in the sophomore, junior, and senior classes.

The current news on jobs for geologists is good. Paul Dudley, Jr. '53, Director of Exploration for Exxon at New Orleans, wrote on April 27, 1977 -- "Exploration for oil in the eastern United States is proceeding at a frantic pace. To those who, perhaps, have become accustomed to the slow pace of inland exploration in California, this area might provide a considerable shock. We (Exxon) currently are drilling wells in Kentucky, Indiana, Florida, Alabama and Louisiana. As to the tenor of business in general, I would note the following: 1) Several companies, led by Exxon, continue regular exploration for oil in South Florida -- a program seriously fettered by environmental constraints. 2) Activity has moved from the Jay area of the Florida Panhandle northwest to some very nice discoveries (over 100,000,000 barrels) by Union and Getty in the area just north of the Mobile area. 3) South Central Mississippi has a roaring gas play currently underway for the Cretaceous sands at 16,000 feet -- with 16 exploratory operations currently underway. 4) Chevron has led the way in a Cretaceous Tuscaloosa play at 19,000 feet in the vicinity of Baton Rouge: they have found a 500+ billion cubic feet gas field in that area. 5) South Louisiana continues very active with some 300 exploratory operations per year. To summarize all this, I might say that it reminds me of the Sacramento Valley during its heyday or the Ventura area in the 50's."
A. O. Woodford '13 became an Honorary Member of the Pacific Section of the Society of Economic Paleontologists and Mineralogists April 21, at the annual meeting in Bakersfield. Donald McIntyre, Ed Sprotte '42, Howard Stark '48, Jack Vedder '48, Warren Addicott '51, Cortez Hoskins '53, and Rosi Grannell '62 were among those present. Mason Hill '26 gave from memory a summary of Woody's many publications, from the Catalina Schist and the San Onofre Breccia (1924 and 1925) to the 9° curvature of the San Andreas Fault (1976). Just before his talk, Mase's chair gave way, and he fell off the platform, landing on his ear.

Mason Hill '26 and Marie Clark Hill (USC) are touring Switzerland. Mase was primed by Donald McIntyre on vantage points from which to view Alpine structure.

The Fiftieth Anniversary Celebration of the class of 1927, on April 23, 1977, was a great success. Frank Rentchler was the reunion chairman; he counted about 130 persons present. Dick Armour was the perfect master of ceremonies. He got through 83 introductions and responses in record time, and concluded with a poem that ended "and I'll see you in 2 and 2". Phil Small and Dana Russell were among the celebrants. Dana and wife Mary Flower came from Estes Park, Colorado. Last winter was hard on them, and they have now moved to the northern Napa Valley of California.

Ed Ogier '32, the old yell leader, was one of the many members of his class who returned to Claremont April 23 to revive memories of the dear old depression days.

H. Stanton Hill '33: "The Geology Department at Pasadena City College has moved into new quarters in the remodeled old building of past years. A museum is being set up which has been named the H. Stanton Hill Geology Museum with dedication slated to take place in the fall."

The Journal of Geological Education for March 1977 has as cover photo another printing of the classic air view taken by John S. Shelton '35 of the nose of Sheep Mountain anticline (Wyoming, Big Horn Basin).

George Bellemin '35, head of the Earth Sciences and Anthropology Department at Los Angeles City College, has retired after a quarter century or more there. His associates and students gave him a fond farewell. Actually, he is glad to get out. Teaching in the public schools is no longer any fun.

Jerry Winterer '44, late in 1976, was one of the two chief scientists on Leg 50 of the epoch-making voyages of the Glomar Challenger. Improvements in the technique of drilling in water thousands of meters deep made possible the setting, in the North Atlantic off Spain and Morocco, of new penetration records of 1,642 and 1,740 meters. It was found that thick new sediments, derived from the rising Atlas Mountains, have molded and folded earlier sediments.

Thane McCulloh '49 has completed his detailed review of U.S.G.S. Prof. Paper 420-D, prepared long ago by Schoellhamer '42, Yerkes '50, and Vedder '48, and condensed in 1976 by Woodford '13. It is now getting its final round of Survey OK's, and may be published in 1978. This paper, on the Santa Ana Mountains, is essential for further progress in the understanding of coastal southern California geology.

Joe Ernst '49 is district geologist at Long Beach for Aminoil USA, Inc. He is living in Mission Viejo, Orange County.
Homer Simmons '49 has retired from his position as Director of Exploration and Production in Louisiana for half of Shell Oil's worldwide production. He has opened a consulting office in Slidell, Louisiana, 15 minutes from his home, and 15 minutes from his boat.

The recent publications of John Levorsen '53 show how rapidly oil geology is developing in Alaska. He was one of the authors of a 1974 volume issued by the Alaska Division of Oil and Gas: "In Place Volumetric Determination of Reservoir Fluid, Sadlerochit Formation, Prudhoe Bay Field", and of the Alaska Geological Society's 1977 "North to South Stratigraphic Correlation Section" across the Prudhoe Bay region. He has also compiled an "Alaska Geological Lexicon" of stratigraphic names, with references (1973).

Clarence Chittenden '53 gives us some insight into the amazingly prosperous world of gem cutters and collectors of fine mineral specimens. He exhibited at the Red Carpet Show in Santa Monica and has joined Gem Carvers Guild. He and his wife Jessie judged four shows in 1976 and gave 16 talks to collectors' societies.

Barry Raleigh '56 has a new son - David, named in memory of his mentor, the truly great geoscientist Dave Griggs. Barry finished, in the late spring, the Richard M. Nixon Lectures at Whittier College. His talks were reported fully in the Los Angeles Times and other newspapers. Barry is optimistic about earthquake prediction. He thinks that precise predictions will not lead to panic exodus in California, because people will learn that they are safest in their frame houses. They may, however, stay home from work for a while, until they realize that the prediction must have been unjustified.

Neville Carter '56, professor at New York State University, Stony Brook, has a thorough and well illustrated review of "Steady State Flow of Rocks" in the 1976 Reviews of Geophysics and Space Physics, vol. 14, p.301-360. This review is essentially a memorial to Griggs, by one of Dave's most devoted disciples. It will probably get frequent use by structural geologists everywhere.

Stanley Madsen '57, who represented Fugro in Hong Kong for several years, returned in 1976 to Fugro's Long Beach office, and is again active in engineering and environmental geology in southern California.

Art Sylvester '59, of U.C. Santa Barbara is very active indeed. He has several fine illustrated lectures on Iceland and other North Atlantic to Arctic volcanoes, one of which he gave at Pomona College in early 1977. His articles on the San Andreas Fault Zone in the Imperial Valley, in the GSA Bulletin (December 1976) and California Division of Mines, show some revealing and surprising features. He has an article on the Santa Barbara Field Course in the March 1977 Journal of Geological Education. He recently conducted a party to Hawaii.

Rosi Grannell '62 gave a paper on errors in gravimetry at the Pacific Section of the AAPG in Bakersfield, April, 1977. Earlier that month she gave a talk at the Cordilleran Section Meeting of the GSA at Sacramento.

Steve Norwick '65, of Cal State Sonoma, has been appointed by Governor Brown to be a member of the North Coast Water Control Board.

Bob Drake '65 has another K-Ar report in Science (March 25, 1977), this time on the age of late Tertiary mammal-bearing beds in Patagonia.

Tommy Thompson '68 has worked for Ameron for several years, doing computer modelling, gas reservoir studies (for Southern California Gas Company), and other varied engineering problems. Recently he has been studying at Cal Poly. In 1977-1978 he will be starting work at the University of Wyoming. He hopes to go into the study of the geology and engineering of such things as oil shales.

Mark Liggett '69 is Director of Research and Development for the Cyprus Georesearch Company, a subsidiary of Cyprus Mines Corporation. This organization exploits its special techniques of enhancement and analysis of satellite photos by doing areal studies for oil, gas, or other energy-developing companies.

Bruce Loeffler of M.I.T., a Harvey Mudd graduate, really understands color in minerals. He has a beautifully illustrated article on the subject in a current number of the American Scientist, and his lectures on the subject are beautifully done. He spoke recently at Pomona College. He is looking for a teaching job.

Rod Stevens '73 has completed his work for an M.A. at the University of Massachusetts. He married a Swedish girl and hopes to spend the next couple of years working for the Geological Survey of Sweden.

Allen Treiman '74 has an M.A. from Stanford. His thesis was on the "Precambrian Geology of the Ojo Caliente Quadrangle, New Mexico", and involved both mapping and petrography. He found Precambrian metatuffs as well as intrusive rhyolites, all at the sillimanite grade of metamorphism! The work is designed for publication by the New Mexico Bureau of Mines. Allen was an undergraduate chemist who concentrated on the process of crystallization. Now he plans to study brachiopods at the University of Michigan.

Sherman Suter '74 has taken a year's leave of absence from Stanford, in frustration over the difficulties in interpreting the cleavage of schistose and slaty rocks. He hopes before leaving Stanford to complete an M.A. on an example of crenulation cleavage, and then get a job.

Paul Delaney, Claremont Men's College 1973, who spent the year 1973-1974 working in the Geology Department of Pomona College, spent the early summer of 1977 on a trip, with Dave Pollard '65, to Hawaii, where they expected to study basaltic dikes.

Jim Secord '75 this summer is probably working at Princeton for the U.S. Geological Survey, cataloging the papers of important American geologists, including Princeton's Harry Hess, whose published and unpublished work fills five large filing cases.

Craig Gander '76 has won a National Science Foundation Graduate Fellowship for 1977-1978. He will stay at Penn State, working for a Ph.D. in geochemistry.

Scott Borg '77 received the Richard E. Strehle Memorial Award of $1,000, and a National Collegiate Athletic Association Award of $1,500. He will study geology at Arizona State University, Tempe.

We graduated two men and two women in June 1977. Ray Weldon and Karen Weliky graduated cum laude. Both Karen and Ray will be taking the next year off, hoping to work for a while before resuming their studies. Lynn Roberts will be studying at Cornell University next fall under a teaching assistantship.
INVITATION TO REUNION OF POMONA-CLAREMONT GEOLOGY ALUMNI
OCTOBER 8 and 9, 1977

Proposed by a self-appointed committee including Alex Baird '54, Mason Hill '26, Cortez Hoskins '53, and A. O. Woodford '13. Blessed by Donald McIntyre, now in Scotland. Please return accompanying questionnaire at your earliest convenience, and not later than August 15.

TENTATIVE PROGRAM

Saturday, October 8

10:00 a.m. Registration, and inspection of departmental facilities in South Seaver Laboratory
10:30 a.m. Welcome (Donald McIntyre)
Talk on a selected geological topic by a Pomona-Claremont geologist (see list on questionnaire)
12:00 noon Lunch at Faculty House (courtesy of the geology department alumni funds)
1:00 p.m. Tour of Exhibits
Herbert Hoover's Thousand Valuable Old Books, Hoover Room, Sprague Library, Harvey Mudd College (Stanton Hill '33)
Important old books and maps in Woodford Geology Library, South Seaver Laboratory (Brian Ebersole)
Research Equipment, South Seaver Laboratory
5100 computer and automatic plotter (Donald McIntyre)
Scanning electron microscope (Don Zenger)
Baird-Clark X-ray spectrometer identical to those on Mars (Alex Baird)
2:00 p.m. Talk on a selected geological topic by a Pomona-Claremont geologist (see list on questionnaire)
3:00 p.m. Talk on a selected geological topic by a Pomona-Claremont geologist (see list on questionnaire)
5:15 p.m. Cocktails at Faculty House, downstairs (on the house)
6:00 p.m. Dinner with speaker and festivities at Faculty House, upstairs (courtesy of the geology department alumni funds)

Sunday, October 9

9:00 a.m. Field trip if there is sufficient interest (see questionnaire)
I will attend / / I may be able to attend / / I cannot attend / /

I would be interested in a Sunday morning field trip, perhaps including the Cucamonga fault on Day fan and the Blue Cut in Cajon Pass. Yes / / No / /

Please reserve a room at a motel for me: Fri night / / and Sat night / /

TENTATIVE TOPICS FOR DISCUSSION (Please indicate first, second, and third choices in the boxes below)

/ / How about earthquake prediction?
/ / How can the future demands for energy and minerals be met?
/ / After VIKING: Should data for comparative planetology be sought?
/ / How does the geology of the L.A. Basin and vicinity relate to plate tectonics?

Mapping by Schoellhamer, Yerkes, Vedder, and others, especially USGS Prof. Paper 420, followed by petrographic and chemical studies of the rocks, shows that a major change of structure and sediment sources occurred about 20 m.y. ago (between Sespe-Vaqueros and Topanga times) with the initiation of the L.A. Basin. The Topanga and younger sediments of the Puente and San Jose Hills contain abundant boulders of a tourmaline-actinolite granite and other strange rocks whose sources are completely unknown. In the last 20 m.y. the Neenach-Pinnacles volcanic pile has been sundered by the San Andreas Fault and the two parts separated by rotation of about 300 km on an axis with a radius of 9° (Woodford and McIntyre, GSA Geology, Sept. 1976 and June 1977). Unique E-W structures and Miocene plutons have developed in the San Gabriel Mountains and other ranges. One wonders if the San Gabriel Mountains have slipped westward between the closing jaws of the Peninsular and San Bernardino ranges. If so, some major contacts on the 1969 geologic atlas of California must be re-interpreted. Campbell and Yerkes (Pac. Sec. AAPG Misc. Publ. 24, 1976) have made a good start.

/ / Another suggestion? ____________________________________________________

Comments on the proposed program or on anything else. If you cannot attend, please report on your recent activities.

Signed ____________________________
Address ____________________________
_________________________ Phone ______________

Late in August or early in September, a reminder of the October 8 date and the final program will be sent to all those who indicate a possibility of attendance.