Dr. Donald B. McIntyre of the University of Edinburgh will join the Pomona College Geology Department in September 1954. It is expected that he will become chairman of the department when Alfred O. Woodford retires 9 months later. John S. Shelton, who began teaching at Pomona in 1941, will spend the year 1954-1955 in Switzerland. He hopes to retain a connection with the college after his return to Claremont, but has not yet decided just how he will compose his varied interests.

Donald McIntyre is a fine speaker, a skilled piper, and a man who has already made a name for himself in geology. His specialties are structural geology and structural petrology. He has worked chiefly in Switzerland and the Scottish Highlands. During the summer of 1953 he led a group of English-speaking geologists, which included John Crowell of UCLA, on an Alpine excursion. In London, on July 1, 1953, he participated in a sort of debate on linear structures in the Scottish Highlands and their value in discovering major structural features and directions of movement. This debate grew out of an excursion into the Highlands after the 1951 meeting of the British Association in Edinburgh. Dr. McIntyre led the excursion and not only demonstrated the structures in question in the field, but also showed an unpublished map of the Highlands on which the trends of fold axes are recorded. Anders Kvale of Norway was not convinced. In a paper read in London July 1, 1953, he questions McIntyre's interpretations and those of Bruno Sander of Innsbruck as well. Those wishing to get some idea of Donald McIntyre and his work should read Kvale's "Linear structures and their relation to movement in the Caledonides of Scandinavia and Scotland", Quart. Jour. Geol. Soc. London, vol. 109, pp. 51-64 (1953), and the long discussion, pp. 64-73.

Patsy Beckstead '53 became Mrs. George (G. I.) Smith in November. George is a graduate of Colby College, Waterville, Maine, and has done work in geology at Cal Tech. He has been working with the Minerals Branch of the Geological Survey in Claremont. He will return to Tech next fall to complete work on his doctorate. Patsy is working as a micropaleontologist for the Claremont cell of the Fuels Branch.

Terry Joan Kundert was born to Faith and Charles Kundert September 22, 1953. Another geologist starts with a daughter.

Dick Lounsbury seems delighted with his new teaching job at Purdue University. He says he is at a rich school now.

Manley Natland brought back an amazing collection of big Eocene mollusks and little and big Eocene forams from the principality of Dhofar, southeastern Arabia. Nat says that the country was lush and green and that the autumn weather was delightful, very unlike our ordinary idea of things in Arabia. Nat has given a representative mollusk collection to Pomona College.
The 1953 Shell recruits from Clarement have been going through training for the last six to ten months and the end is not yet. Jim Taylor and family are in Houston, Duncan English and Ivan Colburn in Bakersfield. Dunc has a baby boy, just born.

Ed Heath '52 finished his MA on the Whittier Fault area early in February. During the first semester he served as lab assistant in the Pomona College mineralogy course, and now he is geological trainee for Shell at Bakersfield.

Evie van Lopik '50 is now working in Houston.

George Bellemin '36 is taking a sabbatical year's leave from Los Angeles City College. He sailed from San Francisco January 22 on a big British liner bound for New Zealand and Australia. He will come home via Egypt, Italy, France, and England. The last time George was in Europe he was a front-line GI; his present de luxe trip will be a pleasant antidote to his previous rugged experiences. Before he left California he and Dick Merrian '34 partially completed a report on the petrology of the upper Eocene Poway conglomerate of San Diego County.

Larry and Martha Ryder Smith have acquired a great house in the woods near Ishpeming, Michigan, where they can bring up their growing family.

Bits McKenna '42 has had enough of snow and ice. He now lives in Redondo Beach.

Cortez Hoskins '53 is working as lab assistant to John Shelton in Geology 1, and working on a MA thesis on the West Coyote Anticline.

Paul Dudley Sr. '25 has recently returned from a trip to Africa with his wife, Avis, and their younger son, Mike. In December, Paul gave a very interesting talk on his experiences to the first joint meeting of the Fuels and Minerals Branches of the Geological Survey in Claremont. He had some swell pictures.

Johnny Forman '49, of G. P., has a new home in Ventura.

Ralph E. Smith is geologist for the Texas Company, with headquarters at Caracas, Venezuela. He has been doing exploratory work in the Orinoco delta.

The annual meeting of the Pacific AAPG in Los Angeles in November was attended by Warren Addicott '51, John Forman '49, Ivan Colburn '51, Jess Parsons '51, Jack Shoellhamer '42, Bob Yerkes '50, Jack Vedder '48, Paul Dudley Jr. '52, Warren Pederson '53, Thane McCulloh '49, Chuck Kundert '50, Howard Stark '48, John Shelton '35, and no doubt others unreported.

Having completed his military service in Korea, Don Seely '49 is now doing graduate work in geology at the University of Oklahoma.

Ed Dew '31 has a frosh son who is, among other things, a potent basketballer.

Dick Duenckel and Bob Jennings graduated from Pomona College February 11. Dick's bachelor thesis dealt with the rocks north of the forks of Topanga Canyon, and Bob worked in the area south of Lake Mathews, Riverside County. Bob was married to Shirley Seed, a Pomona Junior, February 6th.
Bob Douglass '50 has been working on the crystal structure of the California mineral sanbornite, \( \text{BaSi}_2\text{O}_5 \), a sheet silicate. He should get his Berkeley PhD in June. He is uncertain whether he will continue to deal with crystal structures or take up other work for Uncle Sam.

Bill Reynolds '23 was in Claremont recently, at the time his daughter entered Pomona College.

Andy Foraker '52 has transferred from the Humble Company's land department at Chico, California, to new duties as scout for the same company at Bakersfield.

Earl Pampayan '51 is one of the many Survey geologists who have moved down the peninsula to Menlo Park, the new U.S.G.S. headquarters in the West.

Paul Dudley Jr. '53 and Warren Pedersen '53 are enjoying their work at UCLA. Paul is mapping the country around Occidental College.

Dick Bramkamp '30 last autumn enjoyed the usual periodic vacation from his duties as chief geologist for Aramco. Among other things, he caught some really big steelhead in Oregon and looked over Jerry Winterer's turbidity-current Pliocene in California.

Rudolph Fekete '52 is working out of Los Angeles for the California State Division of Mines.

A. O. Woodford attended a National Science Foundation conference on geological research in American colleges that was held at Beloit at the end of October, 1953. He went on to Washington and to the GSA meeting in Toronto. En route he and Mrs. Woodford had a delightful visit at the home of Ted Yackel '27, in Yonkers. At Toronto they saw Charles Anderson '21, Dick Bramkamp '30, and Dick Lounsbury. They barely missed Paul Dudley '25, who spent his Toronto time in the meetings of the GSA Finance Committee.

The Pomona College paleontologists have worn out the college's copies of Arnold's San Pedro paper (California Academy of Sciences and Stanford University, 1903). We are looking for one or two additional copies.

**DIRECTORY, REVISED TO FEBRUARY 1, 1954**

Addicott, Warren '51 - 2250 Piedmont, Berkeley 9, Calif.
Anderson, C. A. '24 - 6028 Walhonding Road, Washington 16, D.C.
Armstrong, Victor '42 - 2019 Santa Rosa Avenue, Pasadena 6, Calif.
Bailey, Dr. Edgar H., assistant 1939-40 - (USGS) 4, Homewood Place, Menlo Park, Calif.
Bailey, Dr. Thomas L., instructor 1921-22 - 223 Chrisman Ave., Ventura, Calif.
Bacon, Jacqueline, 453 Tecino Drive, Duarte, Calif.
Barnes, John '52 - AF3, OM Div., Photo Lab, USS Salerno Bay (CVE-110) % FPO, New York, N. Y.
Robert M. Douglass '50 has just received his PhD from the University of California, Berkeley. His thesis was entitled "Studies in crystal chemistry of silicates: 1. Crystal structure of sanbornite. 2. High-temperature study of laumontite. 3. X-ray examination of dumortierite."

Edward L. (Jerry) Winterer has just received his PhD from the University of California, Los Angeles. His thesis was the "Geology of the southeastern Ventura Basin" and included a very detailed map of the country around Newhall and Fico Canyon. The work was part of a USGS job and Patsy Beckstead Smith '53 did the forams.

H. Stanton Hill '33 has been made an honorary life member of the Mineralogical Society of Southern California "in recognition of work in the field of geological and mineralogical education."

Loring Snedden is now operating the Bakersfield office of Intex Oil Company.

Wally Wilson '40 has been transferred from Ponca City to become Chief Reservoir Engineer for Continental Oil Company, with headquarters in Houston.

Cliff Gray and Willis Burnham '51 came back to Claremont June 5 to receive MA degrees in person. Cliff is now geologist for California Division of Mines and stationed at the Ferry Building, San Francisco. Willis is geologist for the Groundwater Branch of the U.S. Geological Survey, with headquarters in Long Beach.

The Eckis-Hill-Natland trio has moved up to pretty high positions in Richfield Oil Corporation. Rollin Eckis '27 is Director of Exploration, Mason Hill '26 Chief Geologist, and Manley Natland '28 Assistant Chief Geologist.

Melvin Swinney '40 this summer is taking Gwen and 3 sons to southwestern Oregon, where he is mapping a quadrangle for the USGS. Son Bryan was born March 30, 1954. Mel will be back teaching at Stanford in October.

Jerry and Mimi Winterer have a daughter Wendy, born early in March.

In March Dick Ten Eyck '35 gave Pomona College a beautifully bound and well kept copy of Arnold's San Pedro paper which he had had since 1933.

Warren Addicott '51 is working on the Miocene northeast of Bakersfield for General Petroleum Corporation. His area includes the celebrated Barker Ranch Temblor fossil locality. Warren will use the results of this work in preparing a PhD thesis at Berkeley.

Brad Sauters '54 is working for Shell in the Puente Hills.

Grant Robbins '54 is doing Boy Scouts guidance for the Pacific Section of the AAPG, under the direction of Pacific Section President Harold Rader.

C. A. Anderson '24, chief of the Geological Survey's tremendous Mineral Resources Branch, inspected Ward Smith's Claremont unit early in the spring. He expects to spend some time in his old field area near Prescott, Arizona, before the summer is over.

Mason Hill '26 is the 1954-55 chairman of the Cordilleran Section of the Geological Society of America. He will preside over the 1955 meeting in Berkeley.
Jack Weldon, graduate student from Redlands, finished an Army course in aerial photo interpretation at Fort Belvoir and in March was headed overseas, probably for service as a map compiler in Austria.

Dudley Gray '53 is a second lieutenant in the Army, training at Fort Benning.

John Forman '49, who usually works for General Petroleum in Ventura, has a summer assignment in Los Angeles.

Tom and Martha Moran and two children set out by air for Burma in March. Tom will be geologist on two big dam jobs up country. His family will live in Rangoon, in a company house and furnished with a company car.

The Shell gang of young geologists has been spending much time in Houston lately, going to school. Jim Taylor, Duncan English, and Ivan Colburn are all involved. Jim was sent back to California for a week or two to get more dope on his special study. Even George Clark went to Houston from Wyoming for a few weeks.

Edward Heath '52, Shell trainee, has been working on the discovery well in Railroad Valley southwest of Ely, Nevada.

Jim Richmond will teach geology at Redlands University next year.

The Geological Survey has published a preliminary geological map of Beautiful Mountain anticline, San Juan County, New Mexico, by Ed Beaumont '46. The Survey has also issued a similar map of the northwestern Santa Ana Mountains, California, by Jack Schoellhamer '42, Jack Vedder '48, and Bob Yerkes '50.

Cortez Hoskins '53 described an early Pleistocene fauna of more than 100 species in his MA thesis on the geology and palontology of the Coyote Hills, Orange County. His examination for the degree was held June 21.

Jim Griffin '52 expects to be released from the Army in September to enter Claremont Graduate School. He is now working at Fort Jackson, South Carolina.

Estelle Porretta, husband Bill (Pomona '51) and 2 young sons are in Claremont Vet Units for the summer session while Bill finishes up an MA in history. Bill's thesis, on Air Force history, runs to 250 pages. Estelle has also typed out 1,000 pages of supporting documents from Air Force files.

Phil Jackson is again skin-diving to make observations on the subsea geology off the California coast. He went to New Orleans during the winter to look at some tankers sunk in the Gulf during the last war, with the idea of possible salvage, but quickly learned that the prospects were poor.

George Bellemin '36 saw Donald McIntyre June 7 at Grant Institute of Geology, Edinburgh. George is on the last leg of his around-the-world trip. Dr. McIntyre will spend the summer in Switzerland and arrive in Claremont in September.

John Shelton '35, Gwin Shelton, 3 daughters and 2 sons will sail for Holland on the Maasdam August 5. They expect to find a place near Zurich, Switzerland, for the academic year. John plans to take a look at the Jura and portions of the Mediterranean shores and do some writing. He probably will give up one project -- a series of low oblique air photos of the shores of the western Mediterranean. This project might be misunderstood in Franco's Spain or French North Africa.

We are planning to welcome Donald McIntyre to California with a dinner meeting of Pomona College geologists, perhaps in Los Angeles at the time of the GSA meetings. Would Sunday evening, October 30, be a good time? Send suggestions to A.O. Woodford.
IN MEMORIAM

Clifton W. Johnson '27

Clif Johnson died Tuesday, July 6, 1954, in the wreck of his car, driven off a highway in the San Bernardino Mountains.

He was born in Forest Grove, Oregon, May 8, 1905. He came to Pomona College from Lakeside, San Diego County. He was tall and slender in those days, a jolly central figure in the wonderful group of young geologists in the '27 class. Every day was a good day when Clif was around. After graduation, when he was a student at Berkeley or working for an oil company, he was a frequent visitor to the campus and a constant donor to the geological museum. His crystals, ores, rare rocks, fossil wood, and unusual oil-well cores are in constant use.

In the early thirties Clif worked out of Claremont for the California Division of Water Resources. When that project ended he thoughtfully left a set of his records in Claremont, where they have been consulted repeatedly by persons struggling with the subsurface structure.

Clif made his mark on southern California geological activities, especially during the 17 years he worked as geologist for Richfield. He was president of the Pacific Section of the A.A.P.G. in 1948-49. He was also a Boy Scout counsellor, a camellia grower and exhibitor, and a man always ready for any pleasant enterprise, from lunch at the club to an ocean voyage. One voyage he went on led to his "Geology of Guadalupe Island, Mexico", published in the American Journal of Science in 1953.

Many of us will long miss Clif Johnson.

Births: James Reed Boles, February 28, 1954
Jennifer Lynn Forman, May 25, 1954
Thomas Jeffrey Parsons, December 16, 1954

Married: Jacqueline Bacon '46 and Wallace Martin, Monrovia, California, August, 1954.
Robert Bean and Lois McAlistier, in 1953, at Sacramento, California.
Earl H. Pampayan '51 and Dephne Joan Simon, November 11, 1954, at First Congregational Church, Berkeley, California.
Donald R. Seely '49 and Mary Ann Raunikar, June 27, 1954, at Hartshorne, Oklahoma.

Paul Dudley Jr. completed his work for an MA degree at UCLA (thesis: Arroyo Seco-Eagle Rock geology) during the summer and took a job as geologist with Humble, working out of Los Angeles.

Jack Horton '33 is living in Salt Lake City and specializing in uranium.

Gordon Delton '51 has completed his Army service in Germany and taken a job as geologist with Shell Oil Company in Wyoming.
Ted Yackel '27 is reception chairman for the great oil finders convention of the AAPG and associated societies to be held in New York City March 28-31, 1955.

Louis Simon '35 in November was elected treasurer of the Pacific Section of the AAPG.

Howard Stark '48 gave a paper on the Castaic Hills oil field of the eastern Ventura Basin November 12 at the annual meeting of the Pacific Section of the AAPG.

The first Pomona College AAPG luncheon was held November 12 at the Clark Hotel in Los Angeles. Eighteen persons were present. Arrangements were made by Howard and Jean Stark.

Phil Jackson '51 missed the November meetings in Los Angeles. He was on a diving job off Guadalupe Island, Mexico.

Don Seely '49 is working on a PhD thesis problem dealing with the structure of the Pennsylvanian rocks in the Ouachita Mountains of southeastern Oklahoma.

The Porretta family is moving January 5 to the Scott Air Force Base at Belleville, Illinois, where Bill will be Command Historian for the Air Training Command, a big job because the Command is so tremendous, the largest in the world.

Dick Ducneckel '54 has an Army assignment in the Far East. He is at least temporarily in the Philippines.

The Air Force address of Frank Esterlin '53 is A/C AD 19 482 402 Class 55 H, Box 771, SMS, Reese AFB, Lubbock, Texas.


Cliff Gray has been transferred to Los Angeles by the California State Division of Mines. He is glad.

Jim Taylor is back working in Long Beach for Shell after his training period at research headquarters in Houston.

John Shelton '35 and family will be at Hotel Sonnenberg in Zurich until February 20.

Dick Lounsbury spent the summer in northern Wisconsin, working for Kennecott and looking for copper and nickel in the Mellen gabbro.

Jim Whitney '50 is working up geophysical plays for Monterey Oil Company. He has been living at Balboa and working in Long Beach and Los Angeles.

Douglas Fletcher '55, who transferred to Colgate University, has been drafted. He is in cartography school at Fort Belvoir, Virginia.

Grant Robbins '54 went to Rhode Island in October to begin 4 months of Navy training. His address there is OCSN, USNR, Sect. 54, USNR off. cand., Newport, R. I.

Don Wilhelms '52 is in the overseas Army as a topographic engineer.
Bradley Sauters '54, who spent the summer doing field geology for Shell, working out of Long Beach, volunteered for Army service and was inducted Oct. 11.

Robert W. Reed '36, chief geologist for El Paso Natural Gas Co., is feeling very good after locating 3 producers in succession.

Andy Foraker '52 is now in Humble's Land Department, with headquarters in the General Petroleum Building, Los Angeles.

John Forman '49 is permanently stationed at the General Petroleum headquarters in Los Angeles. He is in charge of geological work offshore.

Bites McKenna '42 and his brother are now making ultrasonic equipment that speeds up many industrial processes by a factor of 10. One of his clients is Ted Garner, who operates the Claremont instrument shop patronized by Pomona College science departments. Bits is using a petrographic microscope to study impurities on such things as sanded aluminum plate.

Bob Douglass '50, just before he started work for the Atomic Energy Commission at Los Alamos, gave a lot of laboratory equipment to Pomona College.

Last summer Willis Burnham '51 went to the USGS Ground Water School at Ann Arbor, Michigan. He took his wife and son along and made a tour out of the assignment.

Paul Dudley '25 has been in Gippsland, Victoria, Australia, on a consulting job.

Jack Weldon is completing a tour of duty in Austria as map draftsman and compiler for the U.S. Army topographic engineers. On leave for a short time in December, he saw parts of Germany, Switzerland, and Italy. He expects to return to the U.S. in February and to be discharged in March.

At the national meeting of the Geological Society of America in Los Angeles early in November Robert M. Douglass '50 reported on the crystal structure of sanbornite and Richard Merriam '34 discussed concrete aggregate problems in the Los Angeles area. J.E. Schoellhammer '42, Jack Vedder '48, A. O. Woodford '43, and R. F. Yerkes '50 led a pre-convention field trip through the east side of the Los Angeles Basin, finishing up on the beach south of Laguna. Edgar Bailey led a pre-convention trip to Catalina. Tom Bailey and Jerry Winterer '45 were leaders of the concurrent Ventura Basin trip. Wayne Burnham '51 explained Crestmore to a post-convention group and Thane McCulloh '49 was one of the leaders of the post-convention Death Valley trip.

Donald McIntyre was welcomed to California at Eaton's Santa Anita on October 31, 1951, by a group composed of Charles and Helen Anderson, Victor Armstrong, Alex and Margaret Baird, George Bellemim, Wayne and Estelle Burnham, Willis and Rose Burnham, Clarence and Mrs. Chittendon, Paul H. Dudley, Paul H. Dudley, Jr., Rollin and Caroline Ecks, Andy Foraker, John and Dorchen Forman, Frank and Aurice Goodban, Cliff Gray, Stewart Hagedorn, Jerry and Nora Harriss, Stanton Hill, Thane and Eve McCulloh, Earl and Dephne Joan Simon Pampeyan, Jess Parsons, Frank Rentchler, William R. and Mrs. Reynolds, James and Grace Richmond, Jack and Alicia Schoellhammer, George and Patsy Smith, Howard Stark, Donald Van Sickle, Jack Vedder, James Whitney, William Woodard, Alfred and Gwen Woodford, and Robert and Sarah Ann Yerkes. Donald responded with a bagpipe number and, upon prodding, an account of himself.
In November we nicked the geology alumni fund for $426.20 and purchased a U.S.G.S. jeep that has done long service for Ward Smith's Mojave Desert outfit but is in fine condition and has new tires. Your committee hesitated to commit your generous contributions for this unusual expenditure but finally decided that the jeep was such a bargain and we needed it so much that the departure from custom was justified. The jeep is now being used in the eastern San Gabriel Mountains. Come summer it will be needed for the field geology course.

Next summer's field course will be conducted in the Grant Range of east-central Nevada, just east of Railroad Valley where Shell made its Nevada discovery. The advantages of this area were brought to our attention by Iven Colburn '51, who has been working there for Shell. At Thanksgiving time Donald McIntyre and Alex Baird '54 visited the place and made preliminary arrangements.

DIRECTORY, REVISED TO DECEMBER 28, 1954

Addicott, Warren '51 - 2250 Piedmont, Berkeley 4, Calif; Bakerfield
Anderson, C. A. '26 - 6208 Walhonding Road, Washington 16, D.C.
Armstrong, Victor '42 - 2019 Sante Rosa Avenue, Pasadena 6, Calif.
Bailey, Dr. Edgar H., assistant 1939-40 - (USGS) 4 Homewood Place, Menlo Park, Calif.
Bailey, Dr. Thomas L., instructor 1921-22 - 223 Chrisman AVE., Ventura, Calif.
Bacon, Jacqueline '46 - See Mrs. Wallace Martin Baird, Alex, '54 - 160 E. Laurel, Arcadia, Calif.
Barnes, John '52 - address unknown Bean, R. T. - Div. Water Resources, Box 1079, Sacramento, Calif.
Beckstead, Patsy '53 - see Mrs. George I. Smith Bear, Robert '37 - 1960 Rangeview Drive, Glendale 1, Calif.
Bellemire, George '36 - 136 W. 10th St., Claremont, Calif.
Berry, Thomas, Jr., '32 - 407 Ocean View, Whittier, Calif.
Biddle, Charles '52 - Box 769, La Jolla, Calif. 220 "C" Ave., N.H.A., 10 Pearl Harbor, H.
Boles, Mrs. William A. (Mary Forman) - 1903 Greenwood, Rock Hill 19, Mo.
Boynton, Constance '32 - see Mrs. George P. Kanakoff Bramkamp, Richard A. '30 - Aramco, Dhahran, Saudi-Arabia.
Burnham, Wayne '51 - 2385 Oswego St., Pasadena 10, Calif.
Burnham, Willis '51 - 220 Ximeno Ave., Long Beach 3, Calif.
Campbell, L. Graham, Jr., '41 - 111 N. Gardner St., Los Angeles 36, Calif.
Childs, Theodore '38 - 1515 Foothill, La Canada, Calif.
Chittenden, Clarence '53 - 401 Punahou St. Altadena, Calif.
Clark, George, Jr., '48 - Shell Oil Co., Box 720, Casper, Wyoming.
Colmer, Robert J. '44 - Route 3, Twin Falls, Idaho.
Colburn, Ivan '51 - Shell Oil Co., Production & Exploration, Salt Lake City, Utah.
Cole, Barbara '36 - see Mrs. Henry L. Thackwell, Jr.
Colley, Arthur W., '31 - 409 S. President Ave., Lancaster, Pennsylvania.
Craig, Robert W., '43 - 2681 Orchard Avenue, Los Angeles 7, Calif.
Cross, Rodman K. '33 - 3591 Long Beach Blvd., Long Beach 7, Calif.
Datson, Bradford '32 - 509 Melvin Street, Petaluma, Calif.
Davis, Rosalie '36 - see Mrs. Lloyd Matlovsky.
Dew, Ed '31 - 3855 Rhodes Ave., Studio City, Calif.
Diemer, Robert '49 - 2537 Sneed Drive, Alhambra, Calif.
Dolton, Gordon L. '51 - 155 N. Beech St., Casper, Wyo. (Shell Oil Co.)
Dorf, Sven '36 - 240 Booth Street, Reno, Nevada.
Douglass, Robert M. '50 - 3705 Gold St., Apt. 3, Los Alamos, New Mexico.