Thanks to the many who contributed news of their activities to this bulletin! In our extended family, this communication is widely appreciated.

The Geology Department has continued to grow in student enrollment since a "low" about four years ago. Presently there are 25 majors, a level approaching our "carrying capacity". (Another 10, we figure, would take us to our limit.) Of course, we are happy about the surge of interest -- and uncertain about its origin. The increased enrollment in geology at Pomona reflects a national trend, we think, stimulated by increased interest in environmental issues among graduating high school students. While this is a change from the general attitude of the eighties, there is an aspect to this new focus that is about the same; many students feel the future is bright with promise for environmentally-related careers. In other words, the job market is still exercising a powerful influence over student choice of concentration. It is worth noting that there is virtually no interest in mining, and even a groundswell of negative attitudes toward work in the oilpatch; quite unlike student thinking 20 or 30 years ago. Of course, there seems to be little employment opportunity in these fields, either; though recent discovery of major new petroleum resources in Kazakhstan may change this. As for government work, the word is out that the U.S.G.S. is not hiring, so while there is interest there is no optimism of support from this quarter -- at least for a while. In fact, the present group of students seems much more interested in applied problem-solving than pure research. Again, we feel this is a sign of the times.

There are still three faculty in the department. Don Zenger has been busy in his post-chair life guiding to completion as an editor a bicentennial volume on dolomites, written in the wake of a recent Italian conference. He continues to be active as an instructor at the University of Missouri Wind River, Wyoming Field Camp. On the side, the even-athletic "Zengalope" engages in team basketball, 2-mile 6 a.m. runs, and numerous campus sporting events as an enthusiastic spectator. He still outpaces his students in rigorous field excursions (e.g. - remember the Nopah Range!?). Go get 'em Don. Not bad for age 61!

Jill Schneiderman has continued active research in the metamorphic terrane of the San Gabriel Mountains, recently completing an American Chemical Society grant with student support, examining P-T relations from foothill canyon suites along the south and in the western portion of the front. She and her students presented their results at a recent GSA meeting in Reno.
This year, Jill is engaged in a post-doctoral study at the Smithsonian Institution in Washington D.C. She is tracking down the provenance of metamorphic stream clasts in the Nile drainage system, as a way of finding out what rivers may have flowed across the now arid wastes of northeastern Africa during wetter climatic intervals.

Jill is a rising star in her academic reputation. She has recently been recognized as one of Pomona's very best, and most caring teachers as a 1993 recipient of the Wig Award. She also remains very active in campus women's and human rights issues.

In Jill's absence this year, the Department is very fortunate to have Ms. Pranoti Asher as a substitute instructor. Pranoti is completing her doctorate on mafic dikes of the Connecticut River Valley under the guidance of Tony Philpotts at the University of Connecticut. She will finish up this coming spring. She is very enthusiastic, full of energy, and passionately dedicated to her teaching. The students give her high marks indeed. Pranoti received her undergraduate degree in Bombay, and more recently taught as a substitute at Colby College. She thus brings a background of wide experience with her to Pomona.

Rick Hazlett is "enjoying" the benefits and duties of the chairship, and will continue to do so for a year and a half, after which time Jill will become chair for a three-year stint. Rick is working on a paper with alum Rollin Eckis concerning offset of the Peninsular Range divide by slip along the San Jacinto and Elsinore faults. Incidentally, while Rollin is doing fine, his wife Carolyn passed away last summer. Rollin is not in the mood to stay single, however, and recently "tied-the-knot" with Ellen Revelle, whose husband Roger also passed away some months ago. Rollin still maintains his Pauma Valley address, but spends most of his time now at the Revelle home on the San Diego coast.

Jean MacKay, the Department Secretary, continues to be a positive spirit for us all -- though her retirement appears foreseeable in the next couple of years. We dread this, as it may be a tough task for us to find one as dedicated, honest, and caring as Jean to serve in her place. Connie Baranowski, our technician, has also been a great asset to our program. She keeps our physical resources, including an expanded computer facility, in immaculate running order. She recently helped complete a "Department User's Manual", as well, which will significantly improve communication between students, staff, and faculty about many procedures, academic and otherwise. Thanks to Connie and her student assistant, Geoff Siemering, we've also developed an extensive library of graduate school catalogs and career-placement materials to benefit seniors and ease their preparation for the "wild blue yonder". Connie recently received her B.S. in geology (with honors) from Cal State Fullerton, after 13 years of working full time and attending classes at night!

The Department has big plans for its future. Our immediate objective is to secure an additional faculty position. The field has simply grown too wide and deep for the three existing faculty to properly cover the waterfront, and to maintain a high-quality program. Among the 12 schools in the Keck undergraduate geology consortium, Pomona has the smallest
department. (The national average number of faculty in each department offering an undergraduate degree in geology is 7.7!) Specifically, we are asking the administration for an individual to teach geophysics, a course in the use of computers and statistics in geology, and a course in geohydrology. Ideally, we’d like to offer a class on the ocean and atmosphere as well. (Of the 5 campuses in the Claremont group, not one offers any course on these important topics!) At present, the Administration has frozen new hiring options. But a capital revenue campaign is in the planning stage, so we are reasonably optimistic 4-5 years from now that our proposal will be accepted.

We are also engaged together with all other Pomona science departments, in considering a plan for renovating and expanding our physical facilities to satisfy needs for the "next 30 years", upon instruction from our new College President, Peter Stanley. The college is willing to commit millions of dollars to this project; so it is likely we’ll see changes within the next decade as sweeping as those that accompanied our move from Mason Hall to Seaver South around 1960. Together with this planning effort, we are all engaged in discussing curricular changes as well. To wit, we envision a need to teach a curriculum with more environmentally-related science courses, and by necessity, more multidisciplinary teaching. I’ll spare you the lengthy details, but just wanted you to be aware of the general shape of things to come. In all of this, we hope to find an opportunity to develop a fifth (and final?) faculty position as well -- this a low-temperature aqueous geochemist. Well down the road, I suspect. Please feel free to call me if you’d like to chat about any of these changes, or can offer some useful advice.

Finally, a very big "thank-you" from all of us for the generous support many of you provided in the way of contributions to the Woodford and Alumni funds. In a world where there are too many problems for us to solve, too many charities in need of support, too many diseases in need of cure, etc., we feel both honor and immense gratitude you’ve elected to help sustain our continuing educational mission. Believe me, were it not for the restricted funds you’ve developed, we’d be a significantly less effective operation! Among the services for which these funds have become vital:

*) Our two-week field training exercise (part of the structure and field class), taught late each May in the Inyo Mountains.

*) Our ability to send student speakers presenting their research at professional meetings (such as the GSA at Reno).

*) Our ability to help needy students attend geological field camps (such as the Wind River camp).

*) Our ability to support students in need of certain analytical work essential to their senior thesis projects.
Because we realize our support from these funds is neither bottomless nor guaranteed, we are quite careful about allocating funds. Again, thanks!

Now, on to the news ....

Sincerely,

Rick Hazlett

[Signature]
### In Memorium

#### Alumni

<table>
<thead>
<tr>
<th>Name</th>
<th>Date</th>
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<tbody>
<tr>
<td>Willis Burnham '51</td>
<td>July 13, 1992</td>
</tr>
<tr>
<td>Joseph Ernst '49</td>
<td>September 9, 1990</td>
</tr>
<tr>
<td>Mason L. Hill '26</td>
<td>March 11, 1992</td>
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<tr>
<td>Curtis R. Inman '31</td>
<td>September 3, 1991</td>
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<tr>
<td>Hasley L. Natland '28</td>
<td>August 11, 1991</td>
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<tr>
<td>Edwin P. Ogier '32</td>
<td>June 23, 1992</td>
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<tr>
<td>Frank D. Rentchler '27</td>
<td>November 17, 1991</td>
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<tr>
<td>Roger R. Revelle '29</td>
<td>July 10, 1991</td>
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<tr>
<td>R. Dana Russell '27</td>
<td>February 17, 1992</td>
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<tr>
<td>Richard Ten Eyck '35</td>
<td>February 5, 1993</td>
</tr>
<tr>
<td>James W. Whitney '50</td>
<td>February 13, 1992</td>
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<td>Richard G. Whitney '57</td>
<td>February 13, 1992</td>
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#### Special Friends of the Department

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<tr>
<th>Name</th>
<th>Date</th>
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<tbody>
<tr>
<td>Wesley Leighton '23</td>
<td>December 24, 1991</td>
</tr>
<tr>
<td>Isabel F. Smith</td>
<td>September 16, 1990</td>
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We are indeed sorry to report the passing of so many alumni and friends since the publication of our last newsletter in September, 1990. Several of the deceased were among the top in their field. Many were extremely supportive of our department and its activities. We are proud to have been associated with such people. Only a few words will be said about each but we have more extensive obituary material for some of them; if you are interested please write or call (714 621-8675)

Willis Burnham, after receiving his M.A. degree from the Claremont Graduate School was a consulting geologist in Idaho, where he was for a stretch President of the Idaho Association of Professional Geologists.
Joseph Ernst was a petroleum geologist with both Texaco Inc., with whom he was District Geologist in the Santa Maria area, and Calpons Oil and Gas Company at Oakland.

We could not say enough about Mase Hill, who had been such a good friend and supporter of our department. Long a world-renowned student of faults, most specifically the San Andreas, he spent much of his career as an executive with Richfield Oil Corporation. He deserves much credit for the Prudhoe Bay discovery. He was Vice-President, International Division, of what was to become Arco, when he retired. He was President of the A.A.P.G. in 1961-1962 and received that organization’s prestigious Powers Medal in 1981.

Curtis R. Inman, who had been ASPC President while at Pomona, was both an attorney and an independent oil operator.

Manley Natland, primarily a micropaleontologist, spent his career with Shell Oil Company, Richfield Oil Corporation, and Union Oil Company. He produced a classic comparative study of modern foraminiferal ecology between Long Beach and Catalina and that in the Pliocene-Pleistocene of the Ventura Basin. Nat served as President of the SEPM in 1963.

Edwin P. Ogier was both a geological engineer and petroleum geologist. He was self-employed for some 20 years before being associated with J. W. McQuire as an evaluation and management consultant.

We saw a good deal of Frank Rentchler, especially after retirement, at department seminars and lectures. Frank, who lived in nearby Pomona, had taught science at Emerson, Marshall and Palomares Junior High Schools. He was a Ranger Naturalist in Yellowstone National Park for 23 summers.

Another of A. O. Woodford’s graduates of the twenties was the outstanding oceanographer Roger Revelle. The founder of U.C. San Diego, Roger directed Scripps Institute of Oceanography from 1951 to 1968. He became a world leader in the application of science and technology to help solve problems in developing countries. Long interested in the CO$_2$ cycle, he was an early student of global warming. In 1990 he received the National Medal of Science from President Bush.

Still another of the famous "twenties" graduates, Dana Russell spent the greatest part of his career developing Marathon Oil Company’s research center near Denver. He served as President of the Society of Economic Paleontologists, the American Institute of Professional Geologists and the American Geological Institute.

A frequent attendee at our Woodford-Eckis Lectures, Dick Ten Eyck had a long, successful career in geology, first as a geologist with Caulkins Oil, then as Vice President for Exploration with U.S. Natural Gas and finally as an independent exploration consultant.

James Whitney worked for General Dynamics as an optics engineer until his retirement.
Richard Whitney worked as a civil engineer in California, Nevada, and Arizona.

Two special friends and supporters of the Department deserve mention. Wes Leighton taught in the Pomona College Department of Chemistry from 1931-1938. Wes was also self-employed in investment management and agriculture.

Isabel F. Smith was a centenarian as was Woody! She began her teaching at Smith College. She served as the first Dean of Scripps College for six years beginning in 1929, following which she taught history of science and geology at that institution and at Pomona.
Rollin Eckis '27 and Ellen Revelle (Scripps) were married this summer and are living in La Jolla.

John Hagestad '31 spends most of the year in Catalina enjoying what he calls a "low-keyed" life. His condo in Kona, Hawaii becomes home for two months of the year, and he slips in an extra week from time to time. John's business interests in Bakersfield also keeps him busy, making several trips there every year.

John S. Shelton '35 finds that getting older is an interesting process. "Takes longer to do things; which means less gets done; which adds importance to difficult decisions of what to give up; which is probably nothing new to many of you. And all the while the list of friends lost grows longer. First it was mentors and professors I studied under, then colleagues I worked with, and now even some of my own students." John enjoyed working with Rick Hazlett and others on the EARTH REVEALED series. These are 26 30-minute video programs which were aired by PBS last year. He is now working with Lisa Rossbacher on a book about geology for 9-14 year-olds. This is to be published by Scientific American Press (W. H. Freeman and Co.). John's photographs are still much sought after, but he has stopped flying so his collection is not growing much -- just a few ground shots now and then. John and his wife have moved to a new location in La Jolla; however, they still have the same mail address and phone number and would love to have their friends use them.

Rosalie Davis Matlovsy '36 and her husband, Lloyd, celebrated their 50th Wedding Anniversary in September 1991. Since their three children have become adults, Rosalie and Lloyd have visited much of the world. They have done some "Elderhosteling" which they have found to be an especially great way to learn new things, see new places and meet great people. This energetic pair teach American social dancing at Pasadena City College and at South Pasadena Senior Center. "It's a lovely social activity, good exercise, and Lloyd says, 'it keeps the juices flowing'."

Wally Wilson '40 finds life changing for him. His wife, Anne, had a bad winter in 1990-91, having bronchitis which turned into a full-blown case of asthma. Wally was spending more time in the kitchen and doing much of the shopping and housework. By the way, he has developed a good recipe for white bread, which he is willing to share with anyone who might be interested. When Wally wrote last year, they weren't sure how long the antique business would be able to continue. We certainly hope Anne is doing better. During the energy crunch of 1973-1979, Anne saved copies of papers and speeches made by Wally. These were discovered by him a short time ago - 98 of them! He was surprised to be reminded that he participated in a symposium with George Bush, then a Congressman from Houston.
Mel Swinney '40, like many of us, finds time sails by so quickly. It has been almost 10 years since he retired from Southern California Edison's Fuel Supply Department. At that time the Personnel Department advised him, "Don't move to a new area right away, and think things through so that you will know how to handle all the free time you are going to have." They blew it! They moved to Ventura and haven't had time to think about what to do with their free time. Travel, golf, bridge, getting together with friends and family, and a little consulting keep them very busy. Both Mel and Gwen enjoyed their 50th class reunions.

Franklin Olmsted '42, since retiring in 1988, has "spent one year as a rehired annuitant working part time on various small projects including two unfinished reports on geothermal areas in north-central Nevada. Now, I am trying to complete those reports (progress has been very slow) as an unpaid 'Volunteer for science'. Other activities include travel (Alaska, Hawaii, Belize, Costa Rica, and such), spring and summer backpacking, and amateur botanizing in the Santa Cruz Mountains and Sierra Nevada. Recently attended 50th reunion of '42 class in Claremont -- it was interesting to see the changes Pomona has undergone in half a century."

John Forman '49 and his wife, Dorchen, spent quite a bit of time last summer in Goleta, California, fixing up John's father's old farm house. They expect to retire there soon. In 1991 John spent three weeks in South China on a 1000 mile-long field trip to evaluate oil prospects in the Nanpanjiang Sag. He enjoyed the trip through very scenic country but the oil potential did not look very promising. Dorchen and John flew to Seattle for the wedding of their son George to Deardre. John later accompanied Deardre's father from Seattle to Alaska aboard the 95' Salmon Tender "Preston Brooks". They had a great 2000 mile trip through the Inside Passage, the Gulf of Alaska, Kodiak Island, the Shelikof Straits to False Pass and Bristol Bay in the Bering Sea. John especially enjoyed seeing the Alaska Range and Cook Inlet again after a 30-year absence. He rented a car and drove down the Kenai Peninsula and visited old friends in Homer, which was a beautiful ride in early Spring. John and Dorchen's son-in-law (Richard Mawhorter of our Physics Department) and Jennifer have been on sabbatical in Edinburgh, Scotland this past year and they expected to visit the family, and hopefully see Donald McIntyre while there.

Thane McCulloh '49 spent 1991 working in N. Alaska with Mobil's Alaskan Exploration team in Bakersfield. "Work was regional geology and geophysical interpretation aimed at understanding the prospectivity of the Chulschi Sea. Sat the Chevron "Diamond" wildcat 90 miles west of Pt. Barrow as the winter freezeup began in September-October. Moved back to Dallas (and 'home') in December just in time for holidays with Mary Ann plus Thayne and Paul (with Paul's wife Barbara from Seattle). Highlight of the year was celebrating my 65th birthday in the field at Anulstuvuls Pass in the Brooks Range. Am looking forward to the next decade (of 'retirement') which should
begin September 1. The first project after ending work for Mobil is to write a paper on petroleum geochemistry of the south-western Los Angeles Basin. This will round out in a nice way a whole career working off and on, on the geology of the richest basin in the world!"

Jack Schoellhamer '42 came to Claremont last year for his 50th class reunion and we enjoyed his visit here in the department. He writes, "You have come a long way since the old days in Mason Hall when I had the only U.S. Geological Survey office that was in an ante-room of the women's john. Woody had to convince the Dean of Women that I was harmless before he could get the remodeling done." Jack was planning a trip to the Vizcaino Penn. in Baja California last winter.

Evelyn Stark '30 writes, "The more I retire, the more I work and the less money I make. So far '92 has been a memorable year with two weddings in six months, two big rehearsal dinners and two big receptions. Also had to reduce my mother's 87-year collection by 95% so she could move to a retirement center. My volunteerism has taken on a new angle by including politics - precinct committee person and representative to a long list of assemblies. In the past few years we have traveled extensively. When asked about where we're going this year, what with the fallen interest rates and all of the wedding extravaganzas, I reply 'A jaunt to the Poor Farm', but it sure is fun!"

Edward G. Heath '52 is now involved as an independent consultant in Engineering Geology, specializing in fault studies and slope stability problems. Most of his work is as a consultant to large geotechnical consulting firms. As President of the South Coast Geological Society, he has been involved in putting together their annual field trip and guide book. Their field trip, held last September, covered "The Regressive Pleistocene Shoreline" from San Diego to Palos Verdes.

Don Wilhelms '52 has a new book that has just been published by The University of Arizona Press, entitled "To a Rocky Moon: A Geologist's History of Lunar Exploration".

Paul H. Dudley, Jr. '53 continues long-distance activities as an independent, with drilling deals currently in the Permian Basin of West Texas. Paul is presently Chairman of the AAPG Foundation Trustee Associates and a Board Member of N.W. Petroleum Association.

Dudley C. Gray '53 got married and retired to Snowmass Village, Colorado in December of 1990. Lots of fishing, skiing, and general recreation.

Warren D. Pedersen '53 has, for the last 10 years or so, been consulting on projects involving foundation and engineering geological problems of existing and usually older dams and reservoirs. One of his
current projects is attempting to lower the phreatic surface in the Juncal Auxiliary Dam ridge, Santa Barbara County, in order to improve the stability of the ridge. The lowering of water levels in the ridge is being accomplished by the emplacement of horizontally drilled drain holes.

Martin I. Smith, III '53 has been in the Petroleum Land Business since graduation. Lately, since exploration of oil and gas in California has nearly ceased, he has been spending nearly all of his time on the golf course, and having a great time.

Richard Duenckel '54 is proud of his daughter, Kelly, who completed her Law School and graduated in May of 1992. Her State Bar Examination was to follow in July. Richard was installed as Secretary of North Hollywood Masonic Lodge #542 in December 1991 and continues to be active in Masonic activities in the San Fernando Valley community. He and his wife left last May for their second trip to Alaska. This was a 10-day cruise, stopping in Victoria, B.C., Ketchikan, Juneau, Skagway, and Vancouver, with sail-throughs of Tracy Arm and Glacier Bay.

John Killen '57 retired in 1991 after 28+ wonderful years with IBM. He and Nancy plan to continue with extensive traveling (China, Africa, Egypt, and Turkey in last three years) as well as taking up golf, tennis, and theatre-going when home in Arcadia. Their son Jeff has his own apparel business and daughter Paula is an actress in Chicago. They have one granddaughter.

Pete Newman '57 spent two years living in Algeria, working for Anadarko Petroleum, who were exploring a large block of acreage in the Sahara. During the Gulf War they were evacuated to Mallorca for four months (the greatest little island on earth, according to Pete) before returning to Algeria, where they enjoyed the great beaches, the Atlas Mountains, and well-preserved Roman cities. Pete has now left Anadarko and is living on an island in California where he is pursuing recreational activities.

Thomas L. Wright '57 completed a 7-1/2 year tour as Scientist-in-Charge of the USGS Hawaiian Volcano Observatory in November 1991. His new USGS project, Hawaiian Historical Studies, will keep him in Hawaii through 1993. Tom is creating a searchable computer database covering all of the volcanological literature on the Hawaiian-Emperor Chain from the time of Cook's discovery of the Sandwich Islands (1778) through the present. He expected to complete this through 1991 by the end of 1992. Preparation of a book on Kilauea volcano with R. S. Fiske of the Smithsonian Institution is keeping Tom busy at the present. Two 1992 publications which may be of interest to geology alumni are: "Living with Volcanoes: The U.S. Geological Survey's Volcano Hazards Program" U.S. Geological Survey Circular 1073 (with T. G. Pierson), and "Hawaii Volcano Watch: A Pictorial History, 1779-1991": Honolulu, University of Hawaii Press, 176 p. (with T. J. Takahashi and J. D. Griggs).
Robert I. Tilling '58 writes in May of 1992: "Yes, I am still working at the USGS' Menlo Park center and am chasing and studying volcanoes. Just returned from the First International Workshop on El Chichón Volcano: Ten Years Later (San Cristóbal de Las Casas, México), where I presented a paper titled '1982 Eruption of El Chichón Volcano, Chiapas, Mexico: Scientific and Human Lessons'. I also was able to manage a few days of post-workshop fieldwork at the volcano, whose eruption in 1982 caused the worst volcanic disaster in the recorded history of Mexico. Although I'm involved in cooperative studies at Kilauea and other volcanoes, my primary focus is now on Mount Hood Volcano, Oregon, where the USGS recently has begun an inter-divisional effort to better determine its eruptive history and to update an assessment of volcanic and associated hydrologic hazards. Last year, I had the pleasure of working with Rick Hattegg, doing a "shoot" at Amboy Crater as a segment of a 26-part PBS television series called Earth Revealed, for which Rick served as the Senior Scientific Consultant. On the home front, wife Susan (Pomona '59) is still busily working at the Menlo Park office of Coldwell Banker Real Estate. Both daughters (Roberta and Karen, Stanford '88 and '90 respectively) are working and living in the Bay area -- so there are ample opportunities for family get-togethers."

Douglas Sprague '62 continues to work for CalMat Company as manager of reclamation. He recently discussed his occupation as a "permitteer" with geology students from Cal State University at Fullerton, in a career day presentation. "CalMat, a producer of sand and gravel, has a number of economic geologists working in this area. Geologically, a sand and gravel deposit is not difficult to find. Persuading a community, and its elected officials who approve mining, is another matter. No one wants a quarry in their backyard ... unless, of course, they own it. A permit to mine may take 3 to 5 years and $500,000 to be approved. One needs the patience of Job, knowledge of a variety of environmental sciences, familiarity with an alphabet soup of laws and regulations and, oh yes ... a background in mining and geology." Doug doesn't think he excited anyone in this "field", particularly one who wondered if her interest in petrography could lead to job opportunities in industry.

Michael L. Garner '62 writes a very short note - "TWA pilot in St Louis."

Kathleen White (Baird) '62 started her own business in 1991, writing and illustrating stories for children for the video market. At the time she wrote, these were being animated, orchestrated, and soundtracked and Kittie hoped the first would be finished by the end of 1992. After returning from Thailand in 1990, Kittie finally completed Alex's last research project which he was doing with Bill Wadsworth of Whittier College. In late 1991 she transferred all of their sampled station locations from the Southern California Batholith Study field maps [State maps and quadrangles (15')].
7 1/2") to the new USGS 1:100,000 maps for Doug Morton. These are being copied on to master sheets for publication. In 1992 Kittie took an 8-day ride down the Colorado River through the Grand Canyon on the GSA-sponsored trip, complete with a 4-man NOVA crew. The video was scheduled to appear on PBS last fall. (She is the one in the hat and dark glasses and lifejacket!) Then it was off to England to see her grandson #1 graduate from Cambridge.

Jim Kelley '63 continues as Dean of Science and Engineering at San Francisco State University and as President of the California Academy of Sciences. Jim also sits on the Department of Interior’s Outer Continental Shelf Advisory Board, is Chair of the Moss Landing Marine Laboratories Governing Board, and is Executive Secretary of the Board of Directors of the Romberg Tiburon Centers which focus on research on San Francisco Bay. He continues to conduct research on a group of alpine lakes in the Sierras, in the Lakes Basin area, and to lead Academy expeditions to a variety of remote sites including the islands of the Sea of Cortez, and last summer to Spitsbergen in the high Arctic, north of the north cape of Norway. In the fall of 1992 Jim expected to participate in a cruise from Lisbon to Belem which would follow much of the way in Columbus’ wake, five hundred years to the day after the first voyage of discovery. Jim lives in Montara, south of The City on the coast and his children are in college. Jason is a senior in geology at San Francisco State and Megan is a junior (now a senior) in mathematics at U.C. Santa Barbara. Susan ('64, Zoology) continues to teach mathematics in the local Middle School.

Bob Dickey '64 is now Chief Engineering Geologist for Ninyo & Moore in Irvine, California. After 15 years as an independent consultant, he folded Bob Dickey Geotechnical Incorporated and "bought suits and ties". Bob feels that field work is, unhappily, something of the past. Ninyo & Moore began in 1986 in San Diego and now has 80 employees in San Diego and Irvine. Bob sees Ed Heath ('52) regularly, since Ed is President of the South Coast Geological Society.

Don Doehring '65 is still Head of the Department of Earth Resources at Colorado State University, serves on the Governor's Council for Natural Hazard Mitigation, and finds time to continue his research on liquefaction. He hosted a visit from Donald McIntyre last October, and had an opportunity to learn "J".

David Pollard '65 spent a sabbatical year at Princeton University during 1991-1992. He found it a wonderful year, filled with hard work on a new textbook in structural geology and enjoying the cultural activities of Princeton. Upon his return to Palo Alto, David took over as Chairman of Geology and of Applied Earth Sciences in the Fall. They hope to merge the two departments into one by the beginning of the 1993 academic year, calling it Geological and Environmental Sciences.
Bob Michael '66 says that as a geologist in the closing years of the 20th Century, he feels "rather like a ticket-holder on the TITANIC..." He said that last year the domestic oil and gas profession lost 13,600 jobs, either by dismissal or plans for reduction. "Why don't we just lease our self-service stations outright to the Mideast potentates and drop even the pretense of a domestic oil and gas industry?" Bob has decided to bail out and is starting an export firm to ship California (and western US) T-shirts and sweatshirts to Europe and worldwide. He writes: "To make a long story short, this idea is based on my first-ever trip last summer (1991) to Europe. I observed: 1) American pop culture is pervasive. 2) European kids want to look like the 'California Surfers' they see on TV. 3) The people who can make Concorde's and Mercedes CANNOT make a decent screen-printed T-shirt to save their lives. 4) At least in Western Europe kids have bucks, and they like to spend them. 5) Santa Barbara is just about the T-shirt capital of the known universe. So, I've put in some long hours learning the sportswear and export business from scratch. Right now I have deals pending in France, Denmark, Taiwan, and (maybe) Japan and Brazil. Wish me luck!"

Tom Doe '71 spent a year in Tokyo, Japan, working as an Advisor to the Japanese radioactive waste disposal program. The main activities were the design of underground experiments and modelling of flow in fracture networks. Tom expected to speak on crosshole well tests in fractured rock at last year's International Geological Congress as well as organize a session on Advanced Methods in Engineering Geology (advanced methods are techniques clients don't understand and don't want to pay for!). We enjoyed a visit from Tom while he was in the area giving a lecture at UC Riverside on "Defining Fracture System Geometry from Hydraulic Tests". He was able to join us at our Annual Woodford-Eckis Dinner and Lecture.

Jeff Dunn '71 has left teaching, the oil business, and geology, for good. He finds himself still bitter that, except in a few places, good teaching is not expected, "only grant-procurement. Even worse, STILL, no profs get any real training from experts on how to teach." Bob is now a project leader at VISA International, earning about what he would have in the oil business and enjoying it a lot. The company has great benefits (e.g., they match savings 4 to 11) and plenty of challenges. VISA does well because 2/3 of the card-carrying public has an average credit balance of $1,000 a month that they're paying 16-20% interest on. He loves his house on the water in Foster City, 25 miles south of San Francisco. It's great for entertaining. He has improved his piano-playing since he was a student, and can now do piano bars. Because of his teaching talent, he is President of a company Toastmasters Club. Call him if you are in the area; you can stay any time! "Now at 45, I'm ready to settle down in the most livable place in the world, the SF Peninsula, and want to see if I die before the San Andreas or its "running dogs" (those pesky new faults that keep cropping up) does its thing in SF and turns the Foster City landfill to jelly." He asks, "What happened to Doug Morton?"
Jim Kauahikaua '73 gives us some news from the past few years. He is still living in Hilo, Hawaii and is on the staff of the USGS Hawaiian Volcano Observatory. "At HVO, I have been doing a variety of tasks including monitoring and studying lava flows in Kalapana (the town that was completely destroyed in 1990), making a new, more detailed gravity map of Kilauea volcano, monitoring microgravity changes on Kilauea and relating them to eruptive processes, compiling references and making plans to study the hydrothermal system of Kilauea (the scientific basis for the controversial geothermal development now on our island), managing an effort to convert all the 1:24,000 scale geologic maps of Kilauea and Mauna Loa to digital map coverages and figuring out how to do more new things with less and less money! Much of this year will be spent in writing up the results of these projects (look for them in your favorite journal). For the last two years, Jim Anderson (former Pomona teacher) and I have been teaching a two-week course in field volcanology to Hawaiian children in grades 7 to 9. It was a great experience last year and I'm looking forward to this summer's classes. We took them lava sampling, lava tube exploring (where I fell and suffered a mild concussion!), mapping the fractured terrain in one of Kilauea's fault zones, sectioning the deposits from Kilauea's 1790 explosive phase, plus a last day at the beach (ocean processes). On the home front, my wife and I now have two "pol" (a little bit of everything) dogs who enjoy a great deal of affection from their owner/partners in life. AND my wife is starting a singing telegram business. So if any of you are even in Hilo and dying for a singing telegram, we are your one stop shop."

A. Roland Mora '73 is still at Chevron Overseas Petroleum, Inc. He has been performing wells site geologist duty since November of 1988. Since then he has been traveling to Angola, Papua New Guinea, The Congo, and Nigeria.

Carol Venolia '73 gives us some highlights of the past few years: 1986: opened office of Carol Venolia, Architect. 1988: her book, Healing Environments: Your Guide to Indoor Well-Being was published (10K copies now sold!). 1990: co-founded the Natural Building Network. 1991: began publishing Building With Nature Newsletter, a copy of which she sent to the department. Carol designs homes - sometimes made of earth - and lectures all over North America on eco-healthy design and building. She writes, researches, occasionally teaches, and tries to always keep her feet on the earth!

Jim Secord '75 found the last two or three years to be very busy ones. The program at Imperial College in London continued to expand and develop, with the number of students an order of magnitude what it was when he first started there in 1985. This has meant a bigger administrative load -- which, combined with a 4-1/2 hour round trip, has not left him with much time. Jim and his wife were therefore
very pleased when he took up a new position as lecturer in History of Science in the Department of History and Philosophy of Science at Cambridge University. This gives him much more time for research and teaching in areas related to the earth and life sciences. Moreover, it is only ten minutes from their house!

Ed Reyes '76 is completing 14 years working for Aerial Information Systems in Redlands doing design, management, and coordination in mapping of Geographic Information Systems data bases, and "still enjoying it!". Ed and his wife, Janet, have a new addition to their family. Matthew Thomas Reyes was born August 6, 1991 and formally adopted April 21, 1992. Through independent adoption, Matthew has been with them since birth.

Ray Weldon '77 and LiLi Mesger '82 drop by the department at least once a year and we enjoy visiting with them and their two sons, Nicholas 5, and Nyle 3. Their letter of June 18, 1992 is as follows: This spring University of Oregon hosted the Cordilleran GSA and it was great fun seeing friends long past. Ray led a field trip (with Silvio his student) to look at active faulting in eastern Oregon, which was well attended. We enjoyed seeing Doug Yule (who gave a good talk on his work in the Kalmiopsis Range in S. Oregon) and Mo Smith (who we directed to the local "Skinners Butte" for rock climbing between GSA sessions). They are at Caltech and Vancouver, B.C., respectively. We also attended Bill Wadsworth's talk (as did Doug Y.) on Alex Baird's work summarizing the sampling study at the Lakeview Pluton. It's refreshing to see someone concerned about sampling uncertainties and trying to resolve these problems. We were also nostalgic about seeing slides of the pluton that we all recognized (the "schlieren"!) as Alex had led us all there in the petrology field trip. We also were surprised to see that Kathy Baird once had brown hair. ....LiLi got to leave motherhood behind and pretend she was a geologist again on a FOP (Friends of the Pleistocene) that she attended a few weeks ago. Went to Humboldt County near Cape Mendocino to see triple junction neotectonics with Gary Carver, Bud Burke and about 250 other folks. The raised beach displaying dead biozones (barnacles, limpets, etc.) and recent sandblows from the Petrolia Earthquake was pretty impressive. LiLi also got to go on an overnight backpack trip ... with two of her girl buddies. They climbed Broken Top near South Sister in the Cascades. We finished our house addition/remodel and moved in last August. So lots of extra room and beds for visitors .... Ray has to write up 'the last 5 earthquakes at Wrightwood' paper and LiLi has to finally write up her Sierra Nevada work. By the way, Ray thinks there is a 90% chance for an earthquake along his segment of the SAF in next 30 years. Stay tuned."

Alex Bath '78 tells us that since leaving the Ontario Provincial Government in 1990 (where he served for 6 years as an economic geologist) he has been employed as a minerals exploration geologist for major American and Canadian mining and exploration companies. He anticipated beginning a contract with a junior Canadian
exploration company involving VMS exploration. Most of Alex's work has been in Archean rocks within northeastern Ontario and northwestern Quebec. Alex and his wife, Karen, welcomed their third child on April 30, 1992 "after only 29 weeks of gestation. Mother and baby are doing well (in Toronto) and we are all looking forward to resuming normal life back in Kirkland Lake by the end of June." He goes on to say "I would very much like to hear from other exploration geologists about the state of the industry and of employment prospects in their neck of the woods. The industry is in very deep trouble in Canada and geologists are leaving it in droves. The whole state of affairs is disturbing, to say the least, for those of us who are passionate and committed enough about what we do to persevere in spite of it all."

Rachel (Epstein) Guthrie '78 sent a lovely picture of her two boys, Joshua and Benjamin. As she was writing her New Year's card to us, Rachel and her family had just spent a white Christmas in Marathon, their home. Josh, the older of the boys, was busy taking skating and cross-country ski lessons, while Benjamin tried to keep up with him. All the Guthries love camping and rock collecting.

Annabelle Lee '78 wrote her letter on a plane while enroute to Anchorage. Annabelle took a new direction in life in 1989, leaving Exxon (after nearly 7 years) and becoming a world traveler of sorts. Since then she has travelled around the world, stopping in New Zealand, Australia, Honk Kong, Malaysia, Greece, Turkey, around western Europe on the trains, several months in England and Scotland, Russia, and a few stops here and there in the States. She found it to be fun and hasn't tired of it yet. In 1991 Annabelle returned to Houston, intending to start a new career as a travel agent and did just that in March of 1992. Before settling down to full-time work, she was off to Anchorage, then planned to spend the fall in the Pacific Northwest, and maybe the winter in Hawaii. Though she does not plan to continue her career as a geologist, Annabelle still finds herself fascinated with the geology of places she has visited. "Guess that curiosity of our world around us never quits."

Sorena Sorensen '78 and her husband Jeff are the proud parents of a son, Joel, born April 14, 1991. "Things are about the same for me, juggling family and science, wishing there were more hours per day, and more days per week. So far, we're surviving budget cuts and inside-the-beltway malaise. Joel is going to join me in the field with his dad as chaperone. I'm working in the allegedly bear-infested Ritter Range roof pendant on hornfelsed metavolcanic rocks - quite a change from dreamy, blueschist-laden Santa Catalina Island, but not too bad for a field area!"

Paul Veimer '78 is currently an Assistant Professor in the Department of Geological Sciences at the University of Colorado at Boulder. He teaches courses in applied sequence stratigraphy and basin analysis. His research program has 10 graduate students focusing on integrated studies in sequence stratigraphy, structural restorations and
section balancing, and 3-D seismic surveys. Study areas include the
Cretaceous strata of Montana and Colorado, Tertiary strata and
structure of northern Gulf of Mexico, Neogene strata of Hungary, and
a book Paul co-edited with Marty Link, entitled "Seismic Facies and
Sedimentary Processes of Submarine Fans and Turbidite Systems". He
is currently co-editing a memoir entitled "Siliciclastic Sequence
Stratigraphy" that will be published this year by the AAPG. Paul
received the 1992 J. C. Sproule Best Paper Award from the AAPG for a
paper that he published on the Mississippi Fan in 1990 AAPG
Bulletin. Paul is married, with 2 children.

Tom Hoisch '79 was awarded tenure and promotion to Associate Professor.
This came after five years at Northern Arizona University,
Flagstaff, and is one year early (the probationary period is
normally six years). Congratulations, Tom! He is well funded by
HSF and the USGS and has projects going from the Canadian border in
northeastern Washington state to Blythe, California, with lots of
student involvement. Among these is work on the Yucca Mountain Site
Characterization Project (Nevada), the U.S. Department of Energy's
answer to the problem of high-level nuclear waste. In all these
projects, his role involves studying the metamorphic petrology.
"It's been a very productive five years (lots of pubs)."

Donald Tsusaki '80 and his wife Debbie are the proud parents of a second
son, born February 27, 1993. His name is Nicholas Mario and Alex is
his big brother.

Pamela (Hale) Anderson '81 has retired from the practice of law. "Too
stressful and boring, simultaneously, with lo-o-o-o-ong hours shut
up in an office, to boot. I am now enrolled in the UCLA Extension
Interior Design program (yes, I'm a cat with many lives). I have a
design partner now, and we have our own business -- it's lots of
fun! My husband Roy jokes that I can now use my legal background to
buy a house, my geology education to investigate the soundness of
the land on which it sits, and my design classes to fix it up!
Truly a Renaissance education." Pam and Roy were expecting their
first child last December - we sincerely hope all went well. Let us
know, Pam! The Andersons have two houses in Glendale, one of which
they rent out. "It seems the work of maintaining and improving them
is never ended."

Laurel (Vedder) Kirkpatrick '81 and her husband, Craig, have moved further
north of Dallas to a small town called McKinney. They purchased a
"fabulous prairie-style house built circa 1910 and endowed with
Texas Historical Landmark status." Laurel was expecting a baby
daughter (June 2, 1992) when she wrote, and planned to continue her
career as an exploration geologist with ARCO International Oil and
Gas Company. "After completing an evaluation of the petroleum
potential of the Egyptian Red Sea, which included a month of
fascinating field work, I've been moved on to a new area of
responsibility, Latin America. I'm brushing up on my Spanish and
may learn some Portuguese in preparation for possible travel to
Bolivia, Peru, Argentina and Brazil next year (1993)."
Lorraine Schnabel '81 has moved with her husband, Greg, to Trenton, NJ. Greg got a job with the Department of Environmental Protection and Energy in the Division of Aquifer Protection. They moved into an apartment there in May of 1992. Lorraine said she was delighted (in some ways) to be out of New York City. One thing she was really pleased about was having a whole room in their apartment for her office! "The business of architectural conservation is still paying the bills for me, although conferences this year have eaten up the profit. I presented a paper at an international Stone Conference in Portugal this June (1992) debunking an historic treatment for limestone and marble; September (1992) in Madrid for an international conservation congress to present the work I did in Spain last Summer. The projects this year have been closer to home and less glamorous, but I've been working on getting some grant money to initiate a research project on methods of mortar analysis. May not sound wildly exciting but is in fact a very challenging problem of materials analysis. ...Greg and I are enjoying our new environs along the Delaware River, and have spent some enjoyable evenings hiking along the canal towpath. Our garden is limited to some potted flowers on the steps, and a few basil and petter plants; we also have planted some illicit tomatoes in the State right-of-way along the riverbank! And, finally, I am learning there are more kinds of bugs in the world than I ever believed was possible! The price for waterfront property!"

Phil Thinger '83 received his PhD from Caltech in June of 1991, "marking the end of a very exciting and productive time in my life. Although much of my 6-1/2 years there was spent within the stimulating environment of Ed Stolper's experimental petrology lab, I found time to pursue other geologic interests. These included funded field trips to the Island of Hawaii led by Bob Sharp, to Crater Lake led by Charlie Bacon, and to South Africa led by David Bell. In the fall of 1990, I was hired as the instructor of Igneous and Metamorphic Petrology class at Pomona college, and thoroughly enjoyed teaching all one of my students (Hello, Amy!). ...During that fall semester, I was desperately seeking post-graduate employment, and managed to land an Assistant Professorship at Yale University. With a little cajoling, I convinced Yale to let me do a nine month post-doc at Arizona State University, which is where I've been since September of 1991. At ASU, I've learned some more experimental techniques from John Holloway, as well as interacted with a wealth of other post-docs from around the world. The friendships I've made in Tempe will last my lifetime, and I look forward to sabbaticals in France, Switzerland, Scotland, Quebec, and Japan in the near future! Meanwhile, I've just returned from the AGU in Montreal (after creating a stir concerning the hydrogen isotopic composition of the mantle!) and have secured an apartment in New Haven." Phil's position began July 1, 1992 and he will be constructing an experimental laboratory over the next several years. If anyone should find their way passing through New Haven, Please look him up - he'll be glad to give you a tour of the department. He'll be there for at least six years!!
Steve Clemens '83 completed his Ph.D. in 1990 and is currently (May of 1992) doing a Post-Doc at Brown University. He has been working on several projects involving deep-sea sediment records recovered from the Arabian Sea, Bay of Bengal, and the Eastern Equatorial Pacific Ocean. "Respectively, these include 1) studying of the variability of the Indian Ocean monsoon over the past 3.5 million years, 2) studying the $^{87}$Sr/$^{86}$Sr isotopic evolution of the global ocean and its relationship to continental erosion, and 3) studying the paleoceanography of the equatorial systems of the Pacific. On the home front, Sue and I now have a 14 month old baby (Sara) and are looking forward to our second child due in October (1992). I expect double trouble over the next few years."

Moira Smith '83 since writing us for the last Newsletter, has spent a summer in north-central Alaska, finished her Ph.D. at the University of Arizona (very pleased to be out of school forever!), spent a few months trekking/climbing in Nepal, got a pilot's license, spent a summer in the coast range near Juneau, and is now living in Victoria B.C. Moira is currently employed with the B.C. Geological Survey, doing what she likes best (mapping and tectonics) and was looking forward to a summer in the St. Elias Range. She enjoyed seeing Doug Yule and Lili Weldon at the GSA in Eugene last year.

Ann Sturdivant '83 transferred to the Riverside office of the Regional Water Quality Control Board in January 1992. She has been promoted to Associate Engineering Geologist, and now works in the Land Disposal Section. Ann's job includes oversight of all types of land disposal operations - (landfills, surface impoundments, etc...) - and implementation of Water Quality regulations. In a nutshell, this means she wears the hats of hydrogeologist, engineering geologist, regulator, enforcer, and water cop! Ann and Barrett, along with their twin boys, recently purchased a home in Moreno Valley, and all of their spare time has been spent on yardwork! The Sturdivants had another child this past spring. By the way, Ann sends a special hello to Cindy Braun, Spencer, Carol, and Garry!

Doug Yule '83 and Becky '85 are enjoying themselves, both at work and at play. Doug is busy separating minerals these days - "a lot of work which will soon pay off with a number of apparent ages of the rocks in my field area - I hope. The result means that I will soon change from a rock crushing and pulverizing technician to a U-Pb laboratory rat! Becky still works at MOCA in downtown L.A. - now her MOCA job is part time as a researcher. She also works part time for an organization called the Center for the Study of Political Graphics - a job that gives her an opportunity to work with what she terms "more publicly accessible art". We also are enjoying our positions as Resident Associates in one of the undergrad houses here at CIT - especially now that all students have left for break!! I guess we'd forgotten what a quiet night's sleep was like. I'm hoping to finish sometime toward the end of 1994 but as Phil (Ihinger) and Ray (Weldon) can attest - finishing work at CIT is easier said than done."
Joe Stagg '84, in his letter of June 4, 1992, writes as follows: "I'm nearly through my third year at Benton Engineering, Inc. here in San Diego. Business has been slow since December for a variety of reasons, but we're still making ends meet. My duties have steadily expanded, and I now run the soils lab on my own. I manage to get out in the field fairly often, however, covering for our Registered Geologist when necessary. I almost moved to Sweden last year, to be with my then-girlfriend, but the break-up of that relationship has kept me here in Pacific Beach. I'm into my 5th year of studying martial arts, which has become my main passion these days. There aren't too many Sagehens down this way, so I'm a bit out of touch with all things Pomona. Perhaps one day Jeff Jones and I will get together again, the last time being, I believe, Mardi Gras in '88."

David Bloom '85 has a new job with Ninyo & Moore in San Diego. He is very busy doing mostly site assessment work for property transfer. The job carries with it a good deal of responsibility. David enjoys his work and is very happy to be back in San Diego.

Brad Cornell '85 is now teaching science at Harvard-Westlake School. Brad and Liz now have two children, a daughter and a son.

Colin Driscoll '85 married Sherilyn Whateley '85 in July 1988 in Albuquerque and started medical school that same year. Sheri was a second-year medical student at the time. As of June 1992, Colin graduated from medical school and was about to begin a 5-year residency in Otolaryngology - Head and Neck Surgery - at the Mayo Clinic in Rochester, Minnesota. Sheri is also a resident in the Physical Medicine and Rehabilitation department of the Clinic. Colin wrote: "We have a house in a town of 5000 inhabitants about 10 miles from Rochester and are enjoying the relaxing, crime-free, friendly atmosphere. Future plans include children, after Sheri is finished and my hours are a little more reasonable. We keep in touch with a number of Pomona graduates but unfortunately not any from the Geology Department, but some you may recall from soccer, however. Lloyd Manci is completing his PhD in biostatistics at the University of Washington in Seattle. He is also married. Jeff Saye spent several years in Japan and Europe, graduated from business school at Stanford, almost bought a hazardous waste disposal company, worked at a furniture rental company in Compton, and is looking for a real job. Mark Anderson is still living in Japan, working for some large corporation."

David McLean '85 was awarded his Ph.D. degree in April of 1992 from McGill University, Montreal, Quebec. His thesis is entitled Upper Devonian Buildup Development in the Southern Canadian Rocky Mountains: A Sequence Stratigraphic Approach. He was married a year ago July to film-maker Cindy Felde of Montreal and has worked in exploration research with Shell Western Oil Company in Houston. Dave would love to hear from Tom Cyr and Steve Swope.
John Howell '86 was headed for Korea the day after he wrote to us on June 8, 1992. He expects to be there with the Army for 18 months. After that he hopes to be able to break for graduate school. John would like John-Mark Staude and Kevin Lyons to know that he was in Bloomington, Indiana for three weeks last May and went to visit Dr. Lee J. Suttner at Indiana University's geology department. At that time, Dr. Suttner was getting ready to go to Montana.

Lisa Brown '87 graduated from University of Arizona law school in May of 1992 and was studying for the bar in Tucson. She is looking for a job doing water or environmental law somewhere in the southwest. Lisa and Kevin Lyons were married in Claremont (Little Bridges Chapel) on May 30. The wedding was attended by Don Zenger, Cris Robinson Norin '82, John-Mark Staude '87 and Peter Christiansen '87. Kevin worked in Dallas last summer for Arco, then returned to the field in Red Bluff, California in the fall.

Peter Christiansen '87 continues to study at Stanford with Dave Pollard '65 as his adviser. "We are working on joints, microfaults and ductile shear zones that appear to have formed soon after magma consolidation in the granites of the Sierra Nevada. We hope to combine detailed field study and analysis to better understand the relationship between deformation (faulting), hydrothermal fluid flow and heat transfer associated with the fracture networks. This summer (1992) I will be splitting my time between the field, mapping the fractures and shear zones and the lab, doing high-precision 40Ar/39Ar geochronology on minerals from the faults, shear zones and the surrounding rock. It's a lot of fun to work in the beautiful High Sierra, smack in the middle of the John Muir Wilderness Area -- couldn't be a better place to work." Pete met up with several Pomonans at the Cordilleran Section meeting in Eugene, March 1992. "Heard excellent deliveries by both Steve McKnight and Doug Yule. I also saw Whittier's Bill Wadsworth describing some work he had done with Alex Baird and spoke briefly with Ray Weldon. I enjoyed speaking with Jim Anderson last fall at AGU in San Francisco. Last summer, I worked for Chevron USA in their western exploration office in Bakersfield. It was good experience working for a large company and I found it invigorating to completely shift gears for a summer to learn some new things. I ended up working on a subsurface stratigraphy project in the Sacramento Valley, trying to generate some new play ideas. Suzanne stayed chained to the desk of Chubb Insurance Co. in San Francisco so I spent a good deal of time on Interstate 5 in the 90° heat. She is no longer chained to the same desk and is now loving her new job working at Palo Alto's weekly newspaper."

Cara Davis '88 sent a very "newsy" letter to us in late July 1992, describing her busy life at Indiana University, Bloomington. "...back in the early part of this year I was seriously considering the possibility of transferring to a different school. I was disappointed with all three of the hydro professors and frustrated by the lack of cooperation between the Geology Department and SPEA
(School of Public and Environmental Affairs) in coordinating the joint geo-envi. science degree. But I signed up for an Organic Geochemistry class because I'd heard so many positive things about the Biogeochemistry group here and about Lisa Pratt in particular. Lisa's class was great and I was really stimulated by the reading I did for my term paper (she actually let me do mine on the Gaia Hypothesis!) so when I found out she was looking for a student to work on a project in COSTA RICA, I was sold. My project involves some mid-Cretaceous-aged black shales that overlay (and may be mixed up in) the Nicoya Peninsula ophiolite complex (Pacific Coast of Costa Rica). Lisa's got a number of other projects in Nigeria, Brazil, Columbia and Venezuela and we're interested in whether the Costa Rican organics are possibly related. They've got some great equipment here and I already have two cores that I've been able to work with. But the best part of the project is that we get to go down there in January. (I guess I'm just a sucker for travel in exotic places.) ... there are SOME aspects of this project that are sort of related to the projects I did at Pomona; I have 120 thin sections of the cores that are chock full of both metamorphics and forams and radiolarians as well as all sorts of other stuff. I'm hoping to finish by the end of next summer, but if the NSF grant we applied for comes through, there might be funds for some additional work, possibly even in Panama. ... that's basically what I'm up to now... I never would have acknowledged it a few months ago, but I do believe that this is the right place for me to be at this time."

Libby Stern '89 completed her M.S. in geology in May of 1991 at Dartmouth College and is continuing there in an attempt to get a doctorate. Libby plans to do research on oxygen isotope partitioning in chlorite, so will be busy in the lab for a while before she can do any field work. Libby worked in the lab with Mark Conrad '79 but he has moved on to "bigger and better things."

Lora Stevens '89 is currently working for her Ph.D. in paleolimnology and paleoclimate reconstructions under the tutelage of Professor Emeritus Herbert E. Wright, Jr. at the Limnological Research Center at the University of Minnesota. The call of sedimentology was too great for her so she switched over the her original schedule of rock magnetism. "The transition wasn't too bad since I'm conducting a lot of environmental magnetism experiments. Furthermore, paleolimnology takes me to such exotic locales as western Minnesota in the dead of winter. Subzero field work and really soft "rocks" make an unbeatable geologic combination. Plus it's fun to see the reaction of all the ice fisherpersons when we drag 65 m of coring rod onto the lake. But despite the rumors, it's not always cold here and should anyone find themselves driving inexplicably through the upper midwest, please stop by -- the door is open and all the lakes have public access."

Aleta Fimmila '90 is still at Brown and enjoying graduate school tremendously. She is pursuing research in both experimental petrology and geophysical computer modeling while her latest interest is in molecular dynamics. Aleta bought a house about a
mile and a half from school, which she shares with four other students. Last summer she expected to be planting a garden as well as writing up her first scientific paper on crustal assimilation on the moon and preparing for pre-lims which she would be taking in the fall.

Jeremy Kepner '91 married Alexandra Sholl in Boulder, Colorado on July 5, 1992. They were living in Northampton, MA where Jeremy was working as a computer consultant to VI Corporation and the University of Massachusetts Astronomy Department. He will be attending Princeton University this coming fall, pursuing a Ph.D. in Applied/Computational Mathematics.

Glenn Thomas '92 wrote from Spain last summer, where he was "truly rough things..." Juan V. and his family have an apartment at the beach and Spain is Spain. We went to the Olympics in Barcelona for four days and soaked up some sports and Olympic atmosphere. It was wild. The whole world seemed to have descended on Barcelona. After that I stayed in Catalonia, visiting dead volcanoes and the Teatro-Museo Dali. [The department] will be receiving a nice map and some photos of the Garrotxera region (last eruption ~ 10,000 y.a.), apparently one of the most important sites in Europe. Lots of Strombolian eruptions. I suppose Rick will find them most interesting, but it will be something more to add to the Pomona College Geology collection. The Dali Museum was slightly more surreal than the volcanoes (although the Spanish liked to erect churched in the ancient calderas, which seemed rather odd). Since then I have been staying with my friend and his family on the beach near Valencia - lots of sediments and limestone. I'm going down to Sevilla to stay with another friend and see the Exposition there and after that my plans are undefined."

Elise Parkin '93 and Troy Yergens are to be married on Saturday, November 27, 1993. Geology faculty and staff plan to attend.

Donald McIntyre writes from Kinfauns: "It is hard to remember what I was doing two years ago. But the doings of the past few months will be more than you could want for the Newsletter! (And much has happened in the year since Donald wrote.) However, I do remember with gratitude your cordial welcome when I returned -- ever so briefly -- to Claremont last summer. It was a great pleasure to see many old friends before going to Stanford to give a talk at APL91 (published in APL QUAD Vol 21 #4, August 1991). The IBM Systems Journal -- which has a huge distribution -- published my invited paper on Language as an Intellectual Tool in a special issue (Vol. 30 #4, 1991) commemorating 25 years of APL. The paper is a historical sketch of the development of mathematical notation. Ken Iverson (the creator of APL) has visited me twice -- from Toronto -- and (helped by frequent telephone conversations) given me a head start with his new dialect of APL called J. Two of my papers have been published in VECTOR, a journal of the British Computer Society; three others are in press. My workshop on J, given in March 1992 in
London, was sufficiently successful that I have been invited to repeat it in several places in the U.S. in October. Claremont may be one of them. I have led field trips in Scotland for the Geological Society of America (see the Journal of Geological Education), the Edinburgh Geological Society, and helped on field trips for the Perth High School. I have enjoyed taking lots of visitors (among them Pomona and Oxy faculty, students, and alumni) to the many classic geological and historic sites nearby. I keep up my contact with the Geology Departments in Edinburgh and St. Andrews, both of whom have given me honorary positions. I even gave a course of lectures at St. Andrews. Speaking on geological topics to many local groups is another continuing challenge and pleasure. I spoke to the Edinburgh Geological Society on the influence of naval tactics on the development of geology, and illustrated my talk with the actual model ships that Hutton's friend, John Clerk, used to devise the plan that Nelson used at Trafalgar. I have recently completed a catalog of Clerk's geological drawings, not all of which have been published. Professor Boulton introduced me as a man who had succeeded where a King (Macbeth) had failed -- namely, in defending the fort of Dunsinane against a siege! He referred to my much publicized campaign (carried all the way to the Secretary of State) to protect the historic hill against further quarrying. My efforts for Dunsinane won me many good friends. When I was elected to the Committee of the Perth Civic Trust, I was nominated by the President and seconded by the Provost of Perth. I am proud to have been elected to the Pibaireachd Society, and I am sorry indeed that I cannot now share this news with my old colleague, Jack Miller, with whom I once marched down Twelfth Street -- to the astonishment of our neighbors! Ann and Ewen's activities are more interesting than mine, but they don't qualify for the Newsletter! Suffice it to say that Ann spoke at the Perth prison on "Californian prisons I have been in". Last week, when a prisoner escaped, one of the Governor's first actions was to call on Ann's help." Since Donald wrote, in October 1992 he did a whirlwind 3-week tour of some dozen institutions - academic and industrial - in the U.S. and Canada, presenting workshops on "J". Donald was awarded an honorary D.Sc. degree at the Pomona Commencement in May, Don Zenger giving the citation. In August he was keynote speaker at the opening of the APL Conference in Toronto.

Doug Morton tells us that the multi-authored GSA memorial to A. O. Woodford is finally complete. He writes as follows: "In the 1960's Alex Baird, Kathy (White) Baird, and Ed Welday undertook a chemical investigation of the Cretaceous granitic rocks of the northern Peninsular Ranges, Transverse Ranges, and southern Mojave Desert. The sampling to obtain representative samples across a batholith is without peer to this time. Reaching the desired goal required a broad research base. This research resulted in a wide variety of pioneering papers, including hardware development, such as fabricating remountable Henke X-ray tubes with Burt Henke, then in the Physics Department at Pomona, to routine analysis of Na and Mg, to sophisticated computer data handling with Donald McIntyre, and
new sample preparation techniques. The chemical work culminated
with the publication of U.S. Geological Survey Professional Paper
1284, "Batholithic Rocks of Southern California - A Model for the
Petrochemical Nature of their Source Materials", coauthored with Al
Miesch of the USGS. After his very successful research with Ben
Clark on the Mars Viking Lander, Alex returned to pursue mineralogic
variability of the batholithic rocks. Bill Wadsworth, Alex's
collaborator at Whittier College, was perfecting quantitative modal
analysis by X-ray diffraction. Shortly before his death, Alex had
completed diffraction modes of the Lakeview Mountains plutonic
tonalite, earlier chemically studied by Alex, Kathy, Ed, and me.
The Lakeview work was designed to be the first of a number of modal
studies of the batholithic rocks. Thanks to Bill Wadsworth, the
Lakeview work was completed, an abstract was presented at the 1992
Cordilleran Section meeting of GSA, and a manuscript awaits
publication. Kathy Baird has gone on to produce modal data for most
of the chemically analyzed samples and has in draft a paper
discussing the modal mineralogic variation of the Cretaceous
granitic rocks of southwestern California. By the mid-1980's
technological advances in X-ray spectrography permitted trace
elemental analysis. At the time of Alex's death we were discussing
a major trace element investigation. Fortunately, splits of the
"Baird" batholith collection were retained. Now, after a lapse of
five years, progress is being made on the trace element and isotope
chemistry of these samples. Fred Lichte, a USGS chemist, has
analyzed these samples for 50 trace elements using laser ablation
CIP/MS. Ron Kistler, an isotope geochemist with the USGS and who
was a fellow grad student with Alex at Berkeley, has completed
analyses of Sr and Rb isotopes for the samples. Fred Lichte and
USGS geochemist Ian Ridley are gearing up for ICP/MS and microprobe
analyses of individual mineral phases in these rocks. Thus, thanks
to Alex's far-sightedness, the seminal groundwork he laid is being
built upon to further our understanding of the petrogenesis of
granitic rocks as well as help in refining our knowledge of Tertiary
tectonics in southern California."

Jean (Campbell) Boenish tells us she is finally finishing the tail-end of
her B.A. degree this June at UCLA’s department of geography and
environmental studies (about a decade late!). Jean found the
geology background she got at Pomona was invaluable, especially for
UCLA’s fine state-of-the-art class on remote sensing. After
graduation, she plans on getting back to the film work she has been
involved in since 1980. It concerns sky diving and BASE jumping.
"It is quite wonderful being able to view an entire 1,000-foot cliff
face up close in just ten seconds; it may not be for everybody, but
it certainly offers a unique and broadening perspective, not to
mention a speedy and convenient way to finish up and fly home after
a good day's field work."

Christof Exner, Professor Emeritus at the Geological Department of the
University of Vienna, Austria is still doing some field work in the
Eastern Alps. "Mountaineering for geological research is my great
hobby. There are interesting problems in the region between the
Northern Limestone Alps and the metamorphic terrains of the tectonic
Tauern-window. The country is called 'Land Salzburg' around the town 'Radstadt'. There are lamellae of gneisses with destructive and regressive metamorphism surrounded by Paleozoic phyllites. And it is quite an interesting work to differentiate these rocks in petrographical and structural manner. Also, I am writing a thick book about the geology of metamorphic rocks of Austria."

Gerhard Oertel is now retired but continuing research, and writing a book. Children and grandchildren pay occasional visits.

Richard Lounsbury had a very difficult year after his wife passed away in November of 1991. "A long time ago" Dick's graduate students set up a scholarship in his name and he was heartened to see, in a student newspaper, that it is still helping geology students. "I have many pleasant memories of my days at Pomona and the exciting things we did - hikes with students up and down the Grand Canyon in Johnnie Shelton's airplane, etc. I learned a great deal in that time, and Woody was most helpful. I marvel that he made it to 100, but he was good, and he was tough in his mild-mannered way. I'll be 75 in August (1992), and am grateful that I had some of that time at Pomona."