GEOLOGY ALUMNI NEWSLETTER

No. 55  September 1990

COMMENTS FROM THE CHAIRMAN

Greetings to all. The two years since Newsletter 54 have passed rapidly. As I draft these opening lines, I am in the beautiful Wind River Mountains of Wyoming where I teach summer geology field camp for the University of Missouri and conduct research on two Paleozoic dolomites. The geological delights are many, ranging from Precambrian crystalline, Paleozoic shelf sediments, Mesozoic shelf sediments that became foreland basin in the late Cretaceous, continental Tertiary basin fills and volcanics, and finally Pleistocene glacial deposits. The magnificent wildflowers, birds, and other animals (even rattlesnakes!) add to the wonder. Perhaps this is a bit of an editorial on the excitement of doing field work!

Since the last newsletter I report two very sad events. As many of you know by now, the founder of our department, A. O. Woodford, known to most of us as “Woody”, passed away peacefully in his sleep on June 29 in the medical unit of Pilgrim Place where he had resided since November, 1988. He had been in very weakened condition over the past year but, amazingly, he made an appearance at the 1990 Woodford-Eckis Lecture held on his 100th birthday (more on this event later)! I enclose a copy of his obituary that appeared in the Claremont Courier (reproduced by Connie Baranowski) that very succinctly covers the main chapters in Woody’s life. Those of you who were his students knew Woody personally and are aware of his accomplishments; on the other hand, most of you graduating from the late fifties on had more informal contact with him and the article may contain information that may be of interest to you. Simply put, Woody was one of geology’s greats, a legend in his own time. Despite the great loss we feel, he had a long and extremely successful career and he was fortunate to have received many awards and accolades while he was in good health and could appreciate and enjoy them. As many of you know, especially those who contributed pieces, a folder has been composed (largely through the efforts of Mase Hill and Doug Morton) of letters from former students. It is my understanding that those who participated have received copies; if others are interested we can provide them but we request a five dollar contribution to cover the cost of reproduction. Finally, Pomona College will have a Memorial service for Woody; the date has just been decided by the Administration—the program will be held in Little Bridges at 3 p.m. Friday, October 12. A reception will follow. For those of you who wish to attend, I suggest calling our office the week preceding to verify that the date and time have not changed.

The other sad news is Donald McIntyre’s retirement over a year ago. In his brilliant way, Donald contributed immeasurably toward establishing our department as one of the finest small-college geology departments in the nation. Donald was the perfect person and scientist to supervise the transition into the “modern age” of geology. I have directly sampled Donald’s teaching and he was one of Pomona’s best; every, and I mean every, class was a gem. He was well-deserving of his selection as Professor of the Year in California by CASE (Council for the Advancement and Support of Education) and he was twice designated Wig Distinguished Professor. In his 35 years with us he was a remarkable educator in the broadest sense of the word—a true Renaissance person. I doubt there has ever been a more-rounded faculty member than this remarkable man. We were all in hopes that he would be with us in at least a part-time role after retirement from full-time teaching. Unfortunately for us, Donald, Ann, and Ewen decided to move back to Scotland. We had a large party in May, 1989,
for the McIntyres at the Faculty House where some 150 guests honored him for his achievements and contributions. Donald was still with us in 1988-1989 so his accomplishments that year can be found in the next section on departmental activities; he has remained very active in Scotland and for more information in this regard please see the Alumni News Notes. I personally have missed Donald a great deal; I am grateful for the telephone and mail — we have kept in close touch. His address is: Luachmhor, Church Road, Kinfuans, Perth PH2-7LD, Scotland, United Kingdom. Their new home is on a hill overlooking the River Tay and has a commanding view of the surroundings.

I am grateful to all of you who have contributed to this Newsletter by sending in information on your activities — the Alumni News Notes form the main part of the report. I must state, however, we had 55 replies as contrasted with 70-some in 1988. Let's do better in 1992; remember, there are many who are interested in where you are and in what you've been doing!

We are very appreciative of the many who have contributed financially to our Woodford and Second Alumni Funds. Almost invariably, the positive comments I hear about the department are based on the accomplishments of our alumni so keep It up. By the way, we will again participate in the Alumni Cocktail Party at the Geological Society of America meeting at Dallas this Fall. We are not sure which of the staff will be there, but drop by.

DEPARTMENTAL ACTIVITIES

These past two years sandwiched around Donald's retirement have been very busy ones indeed. Donald hardly slowed down in his last year. It seemed as though everyone wished to take advantage of his broad expertise and abilities and consequently, he was called on more often than usual (which in itself was a lot!). Among his exceptional presentations at Pomona College were his "Dr. Jekyll and Mr. Hyde" as part of the Faculty Report Series, his "Last Lecture" in that Mortar Board Series, his banquet address for the local chapter of Sigma Xi and his talk at the Alumni Council Retreat. Some of his many outside talks included: The Bruce Heezen Memorial Lecture, at the New York Academy of Sciences; a lecture and workshop for APL programmers and managers at the Karsten-Ping Manufacturing Company, Phoenix; a talk on earthquakes to the Claremont Rotary Club; and an address at the Founder Day Convocation, University of the Pacific. Donald spent an impressive amount of time constructing a database of the Seeley Mudd collection of rare books and this is available for searching on an IBM PC. As can be seen below, he has hardly been idle since moving back to Scotland!

His quick response to our Request for News is as follows: "I retired on July 1, 1989, after teaching for 35 years at Pomona. At the last Faculty Meeting of the academic year, which was also my last Faculty Meeting, I presented a Memorial to President E. Wilson Lyon. I had previously the honor of presenting Memorial tributes to Professors Harry Carroll and Nelson Smith. Few contributed so much to Pomona College as these three did.

"Don Zenger organized a splendid reception and banquet, at which Ann and Ewen and I had the pleasure of greeting as many of our friends as could be squeezed into the Faculty House. I left Claremont with a book of letters from Geology Alumni, which I find very moving and for which I am most grateful.

I gave a keynote address at the International APL Conference in Sydney in 1988, and I returned from Scotland to give an address at the closing session of the 1989 APL Conference in New York. When I spoke for the last time to the Southern California APL group of ACM, they presented me with Life Membership in the British Computer Society, which created this category specially for the occasion - a delightful way to end 4 years as a National Lecturer for the Association for Computing Machinery.
"The move to Scotland ended many activities, amongst which was a spell of 12 years on the GeolRef Advisory Committee of the American Geological Institute - which helped several generations of Pomona students to learn the advantages of online bibliographic searching. The move has opened new doors too. I have honorary faculty status at the universities of St Andrews (founded 1411) and Edinburgh. I have lectured at both, and have led a field trip for St Andrews students.

"Our home, near Perth, has a fine view across the opening estuary of the River Tay. We are midway between the unconformity at Siccar Point and the granite veins in Glen Tilt. Eleanour Snow is the latest alum to join me at Siccar Point. Rod Stevens was the first to come with me to Glen Tilt. That was a memorable occasion, because Sir John and Lady Clerk, with their son and grandson, came too, and brought the original drawings made by an earlier John Clerk on the memorable visit of 1785.

"I have renewed active participation in the Edinburgh Geological Society and other societies. The Royal Society of Edinburgh appointed me Convener of its Alembic Club.

"I gave an invited address on Sir James Hall of Dunglass (1761-1832), founder of experimental petrology, to the Third International Symposium on Experimental Petrology. Hall began his experiments in 1790. I displayed his original lab notebook, his apparatus, and the very specimen he showed to the Royal Society of Edinburgh in 1798.

"We have been happy to have had visits from good friends from Pomona's History, Physics, Mathematics, and Geology Departments. We are fortunate indeed, enjoying a rich and satisfying life in beautiful and historic surroundings."

Jill Schneiderman hit the ground running when she began here in 1987 and she hasn't stopped! In fact, as I prepare this draft, she is with a Dartmouth contingent in Pakistan. She will be studying the petrology of metamorphic rocks in the Nanga Parbat region. Jill's long paper "The Ascutney Mountain Breccias: field and petrologic evidence for an overlapping relationship between Vermont and New Hampshire sequence rocks" was published in the American Journal of Science last summer. "Use of reaction space in depicting polymetamorphic histories" appeared in the April number of "Geology". Her article "Teaching students about the nature of science" was published in the Council on Undergraduate Research Newsletter. She also published an article on the Ascutney complex for a guidebook for the fall 1988 New England Intercollegiate Geology Field Conference, which she helped lead. Two other papers are in press in the Journal of Geological Education and two in the American Mineralogist. In addition, she has authored or co-authored three abstracts of papers presented at national and regional meetings of the Geological Society of America. Jill has presented talks to the Mineralogical Society of Southern California, and to the geology departments at California Institute of Technology, Mount Holyoke College, and the University of California, Riverside. This past June she was an invited speaker at a Pew Symposium on "Teaching Strategies in the Sciences", held at Cornell University. Her future research includes: Placerta terrane rocks in the San Gabriel Mountains; tectonic evolution of the Himalayas in northern Pakistan; and, Vesuvius xenoliths (with Rick Hazlett). She maintains her busy schedule on campus, especially her excellent teaching in the freshman seminar, introduction to Geology (she had 80 students in that course this spring), Optical Mineralogy, and Igneous and Metamorphic Petrology. She proposed and prepared an environmental sciences track in the geology concentration (see more below). Perhaps her most impressive accomplishment was the organization of the Keck-sponsored ($10,000) three day workshop entitled "Working from Original Sources: Selected Topics in the History of Geology" held at Pomona College in February 1990 for 16 students and faculty of the member institutions of the Keck Consortium - it was an immense success, which is not surprising considering Jill's organizational abilities and our superb rare book collection begun by Woody and continued by Donald, aided and abetted by H. Stanton Hill '31. With Pew Foundation funds, she arranged and hosted a visit by Dr. W. Gary Ernst who presented three lectures (see below). Jill has been very active outside the department, particularly in connection with the Women's Studies Program.
Rick Hazlett moves at the same rapid pace as Jill. Rick, too, is an excellent teacher, and the past two years has handled "The Geology of Natural Hazards", "Crystallography and Mineralogy", "Optical Mineralogy" (once), and "Structural and Field Geology". This past Spring he has had a one-course reduction in load because he (with Dr. Rusmore, Occidental College) was awarded a grant ($12,000) from the Pew Charitable Foundation to develop field projects and laboratories in structural geology and a software library of computer-based exercises. In fact, together with Scott Bogue (Occidental College), Rick has earned yet another grant from the Pew Foundation to sponsor the improvement of a geophysics course that we have just initiated; the work is to be done this Spring. The gist of Rick's Ph.D. Dissertation, "Extension-related Miocene volcanism in the Mopah Range volcanic field" has just appeared in the Geological Society of America Memoir 174. With several others, he published "Mineral resources of the Turtle Mountains Wilderness" in U.S. Geological Survey Bull. 1713-B. In collaboration with David Clague (U.S.G.S.) he published "Geological Field Guide to the Hawaiian Islands" for a field trip they led in 1989 in connection with the 28th International Geologic Congress. In addition, he has in press three papers with the Journal of Volcanology and Geothermal Research, U.S. Geological Survey Bulletin, and Geology Magazine. His ongoing research involves modern volcanology, Tertiary terranes and volcanism in the Mojave Desert and 1944 avalanches at Vesuvius. Rick has given numerous talks, both at professional meetings and elsewhere, such as the Cordilleran Section, G.S.A., California Institute of Technology, South Coast Geological Society, Branner Club, and Inland Geological Society, Pasadena City College, Cal State Northridge, and the Mineralogical Society of Southern California. He was an invited speaker at a CalTech symposium on "Long Runout Avalanches" and he plans to attend a meeting on a similar subject in Germany later this summer. One of his major accomplishments this year was his organization and convening the "Workshop on Tertiary Stratigraphy and Highly Extended Terranes" held at the California State facility at Zzyzx near Baker. Rick is the lead academic advisor for the CPB-Annenberge telecourse "Earth Revealed" scheduled for showing on PBS affiliates beginning in 1992 – look for it as there should be a number of references to the Pomona Geology Department. Rick devotes much time to other college activities. In May he gave talks on earthquakes to alumni groups in Santa Barbara, Portland, and Seattle. He continues to lead hikes for the Sierra Club. Rick also very selflessly expended a great deal of time and effort, including the preparation of an excellent guidebook, leading an informal field trip to New Mexico for some 20 students, practically all nonmajors.

A fair bit of my non-teaching time these past six years has been devoted to duties connected with chairing the department. I continued through mid-year, 1988-1989, as the only (at that time) small-college Associate Editor for the Journal of Sedimentary Petrology. I remain on the Editorial Board of Carbonates and Evaporites. In November, I concluded my two-year term as Secretary-Treasurer of the Sedimentary Geology Division of the Geological Society of America. I am currently in a three year term on the S.E.P.M. Procedures Committee. My paper with John Dunham (Unocal) "Dolomitization of Siluro-Devonian limestones in a deep core (5350 meters), southeastern New Mexico was published in S.E.P.M. Special Publication 43. My discussion of the Given and Wilkinson paper "Dolomite abundance and stratigraphic age; constraints on rates and mechanisms of Phanerozoic dolostone formation" was also published by the J.S.P. A "photo-essay" on the Bighorn Dolomite of northwest Wyoming was included in the G.S.A. volume "The Art of Geology". An article entitled "Frosted quartz sand grains and dolomite-quartz overgrowth relations, Little Falls Dolostone (Upper Cambrian), eastern New York" was published in Northeastern Geology and a review of the book "Carbonate-Clastic Transitions" (Elsevier) was published in Sedimentary Geology. I co-chaired sessions on carbonates at both the mid-year meeting of the S.E.P.M. (Columbus, 1988) and the Pacific Section S.E.P.M. (Palm Springs, 1989). I presented a talk on burial dolomitization to the geology group at Chevron Oil-Field Research. In October, 1989, I stepped out of my carbonate role briefly to attend the NSF-NAGT-sponsored conference and field trip on accretionary terrane. This past March my wife, Ann, and Duffy (our Scottie!) and I led a trip for about 26 alumni in the Death Valley region; this included two of my former Geology 1 students! In addition, I was responsible for arranging our
outside speaker series (see below for content of the series). Finally, I served as assistant coach for the Pomona-Pitzer women's softball team in their first year as a varsity program; we won't talk about our record!!

Ms Sandra Steacy, a Ph.D. candidate at U.C., filled in admirably for Rick in teaching our new course in geophysics. Because the three of us will be taking our sabbaticals in succession beginning in the Fall, we have secured the services of a most delightful, knowledgeable, and enthusiastic young woman, Lori Battson-Varga, for the next two years. She will be a great addition to our staff. Lori's Ph.D. is from U.C. Davis and her background is excellent for teaching the vacated courses. The subject of her doctoral dissertation is hydrothermal alteration processes at the Troodos ophiolite, Cyprus, and HRTEM studies of the smectite/chlorite transition in metabasic rocks and her M.S. thesis dealt with authigenic phyllosilicate mineralogy of the Point Sal remnant, California Coast Range Ophiolite. Lori is married to Bob Varga of Unocal and they have a new baby boy (Matthew)! I might add here that because of participation in Pew grant activities, we will have part-time replacements for both Jill and Rick this year. One of our own, Phil Ihinger, nearing completion of his Ph.D. work at CalTech will handle the hard-rock petrology course this Fall and in the Spring semester, Jim Sadd, who is presently teaching at Occidental, will teach the Structure and Field Geology for Rick who will be developing the geophysics course under the Pew grant.

The staff of Jean MacKay (now in her 18th year of service), our secretary, and Connie Baranowski, technician-curator, continue to conscientiously support our work and add to the morale in the department — they relate very well to our students and it would be hard to imagine our functioning as well without them. Jean compiled the Alumni Newsletter and Connie designed the cover; both are to be congratulated.

Although when most Californians think of earthquakes over the past year, they generally recall the Loma Prieta temblor of last October 17. This is not so true for residents in the Claremont area — we had our own on February 28, a 5.5 M earthquake with an epicenter in Claremont, near the intersection of the Cucamonga and San Antonio Faults. It gave us a good shake although relatively little damage was done. In the department some acoustic tiles came down, many books were thrown off shelves and a couple of obsolete (but elegant) balances were shaken off a shelf and were damaged. We continue to get the odd aftershock; a 3.5 M shock greeted us our first night back from Wyoming.

We have had two successful Woodford-Eckis Lectures since the last Newsletter. To celebrate Woody's 99th birthday right on the date, we arranged for Dr. Robert P. Sharp, Professor Emeritus, California Institute of Technology, to be our Woodford-Eckis Lecturer. Following dinner for about 80 guests, Bob presented a lecture "Geology in our Own Back Yard" which was appreciated by all in attendance despite their diverse backgrounds. And, this past February 27th (again, Woody's birthday — this one his 100th!), we engaged Dr. J. William Schopf to speak on "the Oldest Known Fossils: A Late Look at the Earliest Evolution of Life". Woody was able to make a token appearance at the reception. After dinner, a brief program was held in his honor; in addition to myself, speakers included Mase Hill, Doug Morton, and Woody's daughters Betsey Coffman and Marjorie Bray. Approximately 100 guests were on hand for the memorable occasion.

Owing largely to the efforts of Jill Schneiderman, we are initiating a new "environmental track" within the department to begin this fall. This program will provide an alternative for students who do not plan to continue in graduate work in the earth sciences but yet have a keen interest in the subject and would like to have geology as a basis for a liberal arts education or as a background for a career in such fields as environmental protection, resource management, etc. The track is interdisciplinary and offers a number of options.
As mentioned briefly under Jill's activities, the department hosted two other significant events this Spring. In late February we had 16 faculty and students, representing many of the colleges in the Keck Consortium, here for three days participating in the seminar-workshop "Working from Original Sources: Selected Topics in the History of Geology". Guest lecturers included H. Stanton Hill, '31, Professor Martin J.S. Rudwick (U.C., San Diego) and Professor Mott Greene (University of Puget Sound). In late March, Dr. W. Gary Ernst, Dean of the School of Earth Sciences, spent two days with us under a Pew Charitable Foundation grant to Jill, giving a seminar and lecture on subduction zones and a public lecture on natural hazards of the Pacific rim. Members of the Geology Department, Occidental College, joined us for the first seminar.

Our list of seminar speakers and their subjects over the past two years is as follows:

Dr. David P. Swartz (U.S. Geological Survey) — "Earthquake Recurrence, Characteristic Earthquakes, and Fault Segregation: A Geological Perspective".

Dr. Charles W. Hatten (San Carlos Oil and Gas Corporation) — "The Discovery of Major Thrust Structures in Cuba".

Dr. Rodney Stevens (University of Goteborg, Sweden) — "Origins and Liquefaction-Hazards of Swedish Quick Clays".

Dr. Martin J. S. Rudwick (U.C. San Diego) — "The Origins of the Visual Language of Geology"

Dr. Robert P. Sharp (Professor Emeritus, C.I.T.) — "Reincarnation of a Geologist"

Dr. Robert J. Varga (Unocal Research Center) — "A Walk on the Ocean Floor in Cyprus: New Insights from the Troodos Ophiolite".

Dr. Ana Gunatilaka (Department of Geology, Kuwait University) — "The Regional Sedimentary Framework: Northern Arabian Gulf".

Dr. James A. Woodhead (Department of Geology, Occidental College) — "Accessory Mineralogy of Granites".

Dr. Mary C. Droser (Department of Earth Sciences, U.C. Riverside) — "Trends in Phanerozoic Bioturbation".

Dr. J. William Schopf (Department of Earth and Space Sciences, U.C.L.A.) — "The Rise and Fall of the Proterozoic Biosphere".

Dr. W. Gary Ernst (Dean, School of Earth and Space Sciences, Stanford University) — "Petrotectonic Evolution of Northern and Central California".

Dr. David Jacobs (Unocal Research Center) — "Petrogenesis of the Salton Rhyolite Domes, Imperial Valley, California".

We were privileged and pleased to host our former student, Dr. Rodney (Rod) Stevens during the 1988-1989 year. After leaving Pomona in 1973, Rod completed his M.S. at the University of Massachusetts under John Hubert. He followed this with his doctorate from the University of Goteborg, Sweden where he presently teaches and conducts research at the Geologiska Institutionen. Although he has been known for his work on glacial sedimentology, he studied paleosols in the Cajon Pass during his stay with us. He was a delight to have around!
Dr. Ananda Gunatilaka (University of Kuwait), a personal friend, spent his sabbatical (1989) at U.C. Santa Barbara working on some ODP cores but visited us occasionally (we have a mutual interest in dolomitization).

Our students have been active in Keck-Consortium projects. In the summer of 1988, Libby Stern was involved in a metamorphic petrology project in Vermont (in which Jill Schneiderman participated as one of the faculty) and Lora Stevens took part in a structural problem in the Minnesota boundary waters area. In 1989, our two seniors, Aleta Finnila and Steve McKnight participated in the program—Aleta in a metamorphic petrology problem in the second year of the Vermont program and Steve in a sedimentological study of Miocene reefs in Spain. Laboratory work for these projects was continued at Pomona during the academic and the work was completed for their senior theses. Both reported their findings at the Keck Symposium at Smith College last April.

In the Spring of 1989 we chose two outstanding seniors to share the second D. B. McIntyre-H. Stanton Hill Geology Award, Libby Stern and Lora Stevens. Libby also was awarded the Richard E. Strehle Award the preceding Fall. Libby was our geology liaison and was also elected to the honorary societies of Phi Beta Kappa and Sigma XI. Libby was again an outstanding member of our excellent women’s swimming team, earning All-American honors for the fourth time. She is currently doing graduate work at Dartmouth. Lora was also elected to Sigma XI and is an accomplished musician, playing the viola for the college symphony. She has been working temporarily for the U.S.G.S. and the latest word is that she will attend the University of Minnesota to work in paleomagnetism. Rebekah Westrup, also ‘89, is working as a laboratory assistant at Chevron’s research lab in La Habra and the other graduate of that year, Melissa (Wilson) Schuetz, is working for the firm of Levine-Fricke in Irvine, California.

In 1989-1990, Aleta Finnila and Steve McKnight shared everything! They were co-winners of the Strehle and McIntyre-Hill Awards and both were elected to Sigma XI. Aleta plans to attend Brown University where she will concentrate in planetology. She will be financially supported by a prestigious NSF Graduate Fellowship for which she is to be congratulated. Steve will probably eventually attend graduate school but for the present plans to work locally for an engineering or consulting firm.

Junior (senior to be) Amy Berger has just participated in a Keck project on the island of San Salvador. She has been selected to receive the Strehle Award at the opening convocation. She served as student liaison for 1989-1990 with Steve McKnight and will continue in that capacity in 1990-1991. Incidentally, Amy is President-Elect of Mortar Board.

Ever-generous H. Stanton and Mary Hill initiated a new fund (to be referred to as the H. Stanton and Mary C. Hill Geology Library Fund) in 1989 in order to maintain and augment our outstanding collection of rare books that they have helped us build. This rare book collection is indeed one of which we can be proud and made it possible for Jill to host the Keck symposium here last February.

Our new microcomputer laboratory is now operative. This lab is primarily for student use and consists of an AST Premium 386/16 pc with NEC Multisync 3D monitor and a Macintosh SE/86 networked together with an Apple Laserjet printer and scanner. Thanks are due both Rick Hazlett and Connie Baranowski for this good piece of work that is ongoing. Last summer we acquired a Mideo Systems, Inc. AV unit that permits us to display microscopic (both binocular and petrographic microscopes can be employed) observation of specimens and thin sections on an 18-inch monitor for our students. Mark Liggett ‘69, of Exploration Research Associates, Inc. has generously donated a Multispectral Scanner and LANDSAT negatives and transparencies representing hundreds of thousands of dollars.
Most of the images represent the very first data to be recorded by the ERTS-1 satellite (later called LANDSAT-1). We can’t thank you enough, Mark! Finally, on the subject of equipment, we will be shortly purchasing a new field vehicle — probably another Chevy Suburban. (For those of you students who used to come armed with tapes, I’ll probably order just an AM/FM radio to protect myself from this modern "music"!)  

Despite high numbers in our introductory classes, we have had a drop in concentrators. We all know that this is due at least in part to the tough times in the profession, particularly in the oil and metal resource industries. However, there are signs that the tide is once again turning. A number of last year’s freshmen are interested in our major and a couple have already "signed up" officially.  

I conclude this part by again expressing appreciation to you alumni. Spearheaded by Mase Hill ’26, and John Shelton ’35, many alumni have contributed to a very beautiful “fault” exhibit overlooking the San Andreas along Coachella Valley at the “Living Desert” at Palm Desert; we are very grateful to these donors. This exhibit has been dedicated to the Pomona Geology Department and in particular to their former mentors, Donald and Woody. I had the opportunity to see the site last February and recommend you do so if you are nearby. We are also indeed grateful to those who have contributed to the department, particularly to the Woodford Fund. And, finally, we are especially grateful to Mase and Marie Hill and Stanton and Mary Hill not only for their tangible gifts but also for their regular visits to our department and geology lunches.

Our best wishes to you all and keep in touch!

Don Zenger

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IN MEMORIUM

Charles A. Anderson ’24 (please see Alumni News Notes)

Alfred O. Woodford ’13
ALUMNI NEWS NOTES

Charles A. Anderson '24. The following obituary appeared in Geotimes in May 1990: "Charles A. Anderson, 87, Pomona, Calif.; associate geologist (1926-28), instructor (1928-30), assistant professor (1930-38), associate professor (1938-42), University of California, Berkeley; geologist (1942-52), assistant chief of mineral deposits branch (1952-59), chief geologist (1959-64), research geologist (1964-72), U.S. Geological Survey; research associate (1972-78), University of California, Santa Cruz; specialties included aerial mapping of Precambrian rocks and petrology of metamorphic and igneous rocks; andersonite, a hydrous sodium-calcium uranyl carbonate mineral commemorates his contributions to the knowledge of mineral resources; Jan. 9, of Alzheimer's disease in Pomona." Since Andy and Helen moved to Claremont we were fortunate to have them as frequent visitors. We will miss that.

Mason L. Hill '26 is still busy but took time to write the following note: "Since retirement from ARCO in 1969 I have become a consultant. However, most of my "work" continues to be going to geological meetings - GSA, AAPG, Brouner Club, South Coast Geological Society, Pomona College, Caltech, UCLA, et al. My geologist wife takes me, for safety reasons. We had a good time at I.G.C. in Washington, D.C. last summer. The Geology Department at Pomona continues to be my second home. I like the staff and students because they are good to me, and the few majors are worth knowing. My last (and final) paper appeared in the January 1990 issue of "Geology". I helped collect some 50 letters of thanks to Woody from his old students for his 100th birthday party. Doug Morton hopes to collect a group of papers for publication on the geology of southern California in honor of Woody."

Dana Russell '27 finds his activities limited. He no longer goes to meetings or anyplace else very far away, but is certainly not idle. Dana has occupied his mind by editing and producing two more books in the last two years. They are biographies of his local friends; "The Long and Happy Life of Mary Elisabeth Brennies", an artist and teacher, and "On Becoming a Californian", by Varden Fuller, a retired professor of Agricultural Economics at the University of California, Berkeley. This was fun for Dana, as "both Mary Elisabeth and Varden led varied, full, and very interesting lives."

Roger Revelle '29 had an aortic valve replacement in his heart and several coronary bypasses in February. His recovery from this has been very slow because he then had a hernia operation and a staph infection which necessitated a month-long intravenous antibiotic treatment. Roger also has more "cheerful" news for everyone. He has received word that he will be one of the recipients of the National Medal of Science this year, and is still teaching at UCSD, giving two seminars, one on African development and one on Marine Policy. During the past several years Roger has received several other awards, including the Tyler Environmental Prize and the Italian Balzan Prize. Of perhaps greater interest to all of us was the Emmy he got for being Chairman of the National Academy of Sciences Committee that guided the production of the Public Broadcasting program, "Planet Earth".

John Hagestad '31 spends most of his time in Avalon, Catalina Island, where he has a home. In addition to the pleasure he derives from traveling on the island, he also enjoys fishing from his 25' boat. John occasionally returns to his old home town, Bakersfield, to pick up mail and visit some of his favorite oil areas. The oil fields, as he knew them 20 years ago, are now gone.

Louis Simon '35 is still living at Lake Tahoe and continues to enjoy playing golf and skiing, although he only got in 29 days on the slopes this past winter as the ski area shut down early due to a lack of snow. The Simons have a little place at Oakmont, in the "Valley of the Moon" near Santa Rosa, California where they spend spring and fall "golfing and goofing off".
Rosalie Davis Matlovsky '36 has been busy over the past two years tutoring in English and taking a course in Creative Writing. Rosalie and her husband, Lloyd, are enjoying their retirement. They have taken several cruises and teach American Social Dancing at Pasadena City College for Community Services.

Wally Wilson '40 was able to attend his 50th class reunion this year and became reacquainted with friends he had seldom seen, if at all, since graduation. "Spending several days on the campus also left me with the realization of just what Pomona has meant to me, as measured by the overall effects of this relatively small school on my life for the past half century."

Jack Vedder '48 took time out to send some "grist for the mill"! Although he hasn't retired yet, Jack expects to do so soon. More than 40 years with the U.S. Geological Survey is enough! His work in the South Pacific recently was completed and two volumes of papers on the offshore geology of the Solomon Islands and eastern Papua New Guinea have now been published in the Circum-Pacific Council's Earth Science Series. Jack served as senior editor and contributed to 15 of the 46 reports in the 635 pages that are included in the two books. He found it to be rewarding, even though the task seemed interminable at times. Last October, Jack and Diane went sightseeing and animal-watching in Kenya, Tanzania, Zambia, Botswana, and South Africa. They also had the opportunity to see parts of the rift system, the Great Karoo, and the magnificent scenery around Cape Town. In April, they returned to their favorite scuba diving haunts around New Georgia, Santa Isabel, Sava, and the Russell Islands in the Solomons, to photograph undersea life and collect rare shells. "Both trips were exciting and entertaining, to say the least," writes Jack.

Thane McCulloh '49 just returned to Dallas from Indonesia where he spent the last six months studying the North Sumatra Basin for Mobil Oil Indonesia, Inc. (he is still working for Mobil-Exploration). About a year ago Thane was "graduated" back to technical work from his lengthy tour as a "Manager". He is now Senior Geological Consultant for Regional Geology. The whole world is his "oyster", but he works only on problem regions: mostly foreign, and generally offshore. Extracurricular activities for Thane are both professional and "other". Publications dealing with thermal conditions and thermal history of sedimentary basins took much of his professional extracurricular time. Such work (on laumontite and organic geochemistry) continues as spare time permits. His "other" extracurricular "work" consists of children, wife, home and garden, plus friends. Enough to keep him from getting into trouble.

Don Seely '49 finds it has been fun pursuing interests during early retirement years that time would not allow before. He has particularly enjoyed watercolor painting and playing in a ukulele band. He and his wife also traveled a lot. Last year they attended Elderhostels at colleges in Juneau and Sitka, Alaska and did some hiking on the way. This year they are attending Elderhostels in Sweden, Norway, Denmark and the Netherlands (including a bicycle tour around the IJsselmeer), as well as hiking in Glacier National Park and Washington.
Jim Whitney '50 spent much of 1989 traveling. In February and March he joined friends for an African animal-viewing and geology-observing safari, inspecting the Great African Rift Valley in Kenya, and overlooking Olduvai Gorge and its interesting little museum perched on the cliff rim, in Tanzania. The final week was spent on a flying trip to Victoria Falls in Zimbabwe, where early morning double rainbows created a spectacular sight in the rising mists of the Zambezi River (in flood) pouring over the rim into the gorge below. "Absolutely magnificent!" writes Jim. In October, he took a car trip "back east" to view the cliffs at Cap de Gaspe in Quebec.

John Barnes '52 tells us there has been little major change in his occupational life for the past several years. He is still employed as an analyst for the California State Department of Social Services Quality Control Branch. The happiest change in his circumstances was his marriage to Ms. Lillian T. Lundtren, a retired psychiatric social worker, in December of 1988. He had been widowed for more than six years before that date.

Paul Dudley, Jr. '53 just moved to Bend/Sunriver Oregon, but continues to be very active in the management of Energy Exploration Management Company, an exploration company formed with four others in early 1989. They are funded by a major Canadian firm and are now developing and drilling prospects in the southeast United States, the Gulf Coast, and western Texas.

James Parsons '56 attended the annual convention of the Association of Engineering Geologists earlier this year, in Vail, Colorado. One of the many outstanding papers he heard presented there was by Sharon Wechsler '86. James said Sharon is a credit to Pomona College’s geology department and should have a bright career ahead of her. A second term as Chairman of the Sacramento Section of the Association of Engineering Geologists is ahead for James. He finds it quite a challenge to help manage a professional society section, try to insure they have interesting programs, good field trips and short courses, and make a positive mark in the community in which they work. James has just completed his 13th year with the California State Water Resources Control Board with his principle assignment the management of a program aimed at proper closure of surface impoundments that contain, or have contained, hazardous chemicals ("Toxic Pits"). He said it’s a constant battle to convince the engineers, on one hand, that mother nature doesn’t have straight lines in the subsurface, and our geologists, on the other hand, that they do not need to spend billions of dollars to gain the geologic data needed to make a right decision. "I guess that it is the job of the 'old-timers' like me to help people to find the right balance."

Pete Newman '57 is now working for Anadarko Algeria Corporation in Houston (after 20 years with ARCO), and as of May 21 has been transferred to Algiers. Anadarko has 5 million acres in the Sahara, with few wells and very good exploration prospects. They will be living in a 140-year old farm house which has been up-dated with modern bathrooms and kitchen and has extensive grounds and gardens. They are looking forward to the southern California-type climate, to the great beaches (they have included a Zodiac with motor in their shipment), and to nights of "passion and intrigue in the Kasbah". Pete says they understand there is often quite a bit of excitement down at the oasis! Pete’s Houston address is listed in the directory; mail will be forwarded by a twice-weekly "pouch". He’d love to hear from his old friends.

Tom Wright '57 will complete his term as scientist-in-charge of the U.S. Geological Survey’s Hawaiian Volcano Observatory at the end of 1990. Tom writes as follows: "My tenure has been marked by continuous eruption of Kilauea, culminated, at this writing, by the covering of the historical area of Kalapana by new lava. During the last two years I have become increasingly interested in the history of volcanic activity in Hawaii and increasingly engaged with the State and County of Hawaii in evaluation of the hazard posed in the active Hawaiian volcanoes and the possibilities for hazard
instigation through discussion of land-use policies. The former interest has led to production of an annotated bibliography ("Observations and Interpretation of Hawaiian Volcanism and Seismicity, 1779-1955: An annotated bibliography and subject index" by myself and the HVO librarian, Jane Takahashi) and a popular short lecture entitled "200 years of volcano lecturing in Hawaii" which has been delivered many places in Hawaii and a few on the mainland. The lecture brings together Cook's earliest observations with paintings, lithographs, and missionary accounts of volcanic activity in the 19th century, closing with the history of 20th century activity, in turn ending with the most current events of interest. The hazard work has led to increased HVO involvement in local committees and task forces on subjects such as the hazard from volcanic fumes and assessment of geothermal resources in Hawaii (with assistance from alumni Patrick Muffler and Jim Kauahikaua). Jim is on the HVO staff and will heretofore represent HVO in geothermal issues. We are also represented on a committee evaluating seismic ash on the islands. I have been working with the Office of State Planning with regard to the concern that increasing pressure for development on Mauna Loa may lead to loss of life, should Mauna Loa erupt on its steep west flank. All in all it's been an exciting six years in Hawaii. I plan to stay for 2-3 more years on a project that will complete my historical work by creating a computer searchable bibliography on active Hawaiian volcanism and seismicity that will extend from 1779 to the present."

Patrick Muffler '58 was presented with an Honor Award by the Secretary of the Interior at the 54th Departmental Honor Awards Convocation on March 8, 1990 in Washington, D.C.

Bob Tilling '58 has continued his work in volcanology since his relocation to the USGS' Menlo Park center in the fall of 1987. In July 1989, he convened a short course on "Volcanic Hazards", jointly sponsored by the International Association of Volcanology and Chemistry of the Earth's Interior and the 28th International Geological Congress. He edited two volumes on volcano studies published by the American Geophysical Union in 1989 (How Volcanoes Work and Volcanic Hazards) and published a review paper titled "Volcanic hazards and their mitigation: Progress and problems" (Reviews of Geophysics, 1989, v. 27, no. 2). Daughter #1 (Roberta) graduated from Stanford (June 1988) and daughter #2 (Karen) also recently graduated from Stanford (June 1990). Bob's wife Susan (Pomona College '59) is still very much in the real estate business, working at the Menlo Park office of Coldwell Banker Real Estate.

Barry Watson '59 wrote to us from his office on a Sunday, where he was trying to catch up with mail accumulated during his travels. Last November he was asked to open his third mineral exploration office for U.S. Borax during his nearly 20 years with the company (which is wholly owned by Rio Tinto Zinc - RTZ- the world's largest mining corporation). Barry has spent the last 16 years in Tucson, Arizona but is now Eastern Regional Manager for USB's Exploration Department and based in Raleigh, North Carolina. They explore for industrial minerals in the central and eastern U.S. and in Canada. Some foreign work is involved, and Barry spent two weeks in Argentina and Brazil in late May and early June. He tries to keep a low profile in the geologic profession as he finds that professional organizations are time-consuming. However, he is a "sucker for old friends" and spent two years chairing the S.E.G. (Soc, Econ. Geol.) Admissions Committee and is presently an Associate Editor for GSA Bulletin (If Art Sylvester can find him!). Barry's wife Norma has now joined him in Raleigh and his son Lane, Phi Beta Kappa out of the University of Arizona (Russian Studies) and a Rhodes Scholar runner-up, will be starting graduate studies in History at Stanford in September. Even though he has been a westerner most of his life, Barry is somewhat surprised at how he is enjoying living in Raleigh. He finds eastern geology and scenery a needed change of pace. He is building a library for their use in North Carolina, and actually bought some D. H. Zenger publications from the New York State Museum while in Albany in the spring.
Douglas W. Sprague '62 continues to work as a property manager for CalMat Company, a producer of construction aggregate. As such, he manages a number of mined-land reclamation projects in obscure southern California watercourses...San Juan Creek, Cajon Creek, Big Rock Creek, San Gorgonia River, and Jack Rabbit Canyon. These projects range from wildlife habitat restoration to industrial development (dig a hole, fill a hole, and build!). Doug's son, Andrew, is headed for college, daughter Abbie is still in high school, and wife Judy is a sole proprietor of her own gift shop in Seal Beach.

Jim Kelley '63 is still Dean of Science and Engineering at San Francisco State University and President of the California Academy of Sciences. Jim continues to work actively on the OCS Advisory Board for the Department of Interior and his current research interest is the physical limnology and chemistry of high lakes in the Sierra Nevada. He has been leading Academy trips to Greenland, the Canadian Arctic, Iceland, Spitzbergen and Norway in the Summers, and to Costa Rica and Baja California in the Winter season, and lecturing on the local geology and oceanography.

Paul Delaney (CMC) '73 and his family (wife Marie and son Ian) are back in Arizona after a three-year tour at the Hawaiian Volcano Observatory. Ian is now two and lots of fun. He misses being near the water but they have five acres of land, so there's lots of room to run. They are adding to their house, which means there are also lots of machines, piles of dirt, tools (especially woo-bos, or wheel barrows), visits from backhoes, dump trucks, concrete trucks, and all the general chaos that kids seem to enjoy. Paul was able to publish a paper in Science demonstrating that Kilauea is more active than had been thought; virtually all of its subaerial extent has been deforming at appreciable rates. He will continue to work on the deep structure of Kilauea for a few more years, primarily by analyzing geodetic data. Paul hopes to see a lot of Jim Kauahikaua (who is on staff at HVO) for the next few years.

Rod Stevens '73 writes from Sweden: "In April 1989 I concluded a post-doc year in California, the better part of which (in a double sense) was spent at Pomona. The genial reception for my whole family was by far the most appreciated aspect. I did work on emptying a box of projects from Sweden, but overall this is less important since I also filled a new one with notes and new samples (for soil mineralogy) which I then took back. Once back, I was quickly submerged in projects (Quaternary sedimentology and mineralogy) and teaching tasks at University of Goteborg. One nice spinoff from my visit at Pomona was a phone call from Donald McIntyre, now in Scotland, that led to a most memorable excursion to James Hutton's Glen Tilt locality and a very pleasant visit with the McIntyres last September. Marianne and I have two daughters, 7 and 4, which easily summarizes the rest of my current activities."

Allen Glazner '76 went on an enjoyable field trip in the Sierra Nevada in December 1988 (before the AGU meeting) with Cory Conrad '76 and Allan Treiman '74. He taught field camp in Arizona and Utah this summer and followed that with a day in the San Juan Mountains with Allen Stork. Son Chris is now 5 years old and starts kindergarten in the Fall, and Jenny is almost 3. Mary (Olney '78) is working two days a week, helping to cover the practices of surgical pathologists in nearby (actually, not so nearby!) towns. The family spent two weeks in Hawaii in July, having fun, mostly, but also doing some volcano watching, with Rick Hazlett's guidebooks in hand; a week in Santa Rosa followed. Allen hopes to make it to his 15th reunion in 1991.

Allen Stork '76 and his wife, Judy Junkman, are the proud parents of Peter who was a year old this past July.
Lynn Roberts '77 is at the "gruesome stage" of trying to finish experiments for her PhD in civil engineering at MIT, looking at reactions of halogenated organic solvents in groundwater. Environmental organic chemistry seems pretty far removed from geology, says Lynn, although she still manages on occasion to pretend to be a geochemist. "Classmates who remember my struggles with Chem. 1, and my firm avowal to never take another chemistry class as long as I lived, will undoubtedly receive with some skepticism the news that I somehow got not one, but two awards this year from the American Chemical Society." Lynn hopes to finish writing everything up by the end of the year, at which point David and she will get to enjoy the "dubious pleasure of optimization games with two job searches (anyone know of any openings for an environmental chemist/hydrogeologist or a financial software systems analyst?)"

Ray Weldon '77 and LILI (Mezger) Weldon '82 held off on sending their news because of an anticipated addition to their family. Well, Nyle Major Weldon, all 8 lbs 4-1/2 oz of him, arrived on August 3. Poor Ray caught pneumonia about 3 days before Nyle was born, so was unable to help LILI with the new baby and brother Nick, but thankfully he is recovering. The Weldon family is quite settled in Eugene now and have bought a house there. Ray’s program at the University is starting to take off with funding and students. He received a Presidential Young Investigator Award (1 of 5 in Earth Sciences) that comes with 5 years of unrestricted research dollars. Also, they raised money to install a seismic array for Oregon (and some other equipment for their structure/tectonics/geophysics program) and convinced the State to fund them to run it. Ray was appointed to NEPEL (National Earthquake Prediction Evaluation Council) and he remains involved in the California program as well. LILI helps Ray teach his Neotectonics and Quaternary Geology classes and has worked a little on her projects on glacial stratigraphy in the southern Sierra and marine terraces in central California. However, taking care of Nick, expecting Nyle, and becoming active in the University day-care scene, has occupied most of her time. The University is trying to "twist her arm" into teaching her own class on mountain building and glaciers in the spring, but it looks like motherhood will win out for a while.

Ken Creager '78 has been an Assistant Professor of Geophysics at the University of Washington for 3-1/2 years. He and his wife have a three-year old son, Kyle and another baby was due in mid-July. Ken has spent the last couple of years searching for "continents" on the core-mantle boundary and "mapping" the geometry of subducting slabs after they become aseismic.

Roni Uytana '78 is still in Reno practicing Financial Planning. She is still in touch with many of the geologists she has met over the years through work, conferences, grad school, etc. Quite a few of them live in Reno and are now clients as well as friends. If there are any Pomona geology grads nearby, please drop Roni a line, or call (702) 827-0566. Last year she joined an athletic club, purchased a sporty car and a townhouse (it made her cringe just to write it down. "It's so - settled!"). While at Pomona, Roni never foresaw anything like the life she is leading now.

Vince Cronin '79 wrote to us in December, 1989. At that time, he was busy teaching three courses in geology at the University of Wisconsin in Milwaukee, and trying to cope with the 'publish or perish' syndrome. As a result, his life was rather hectic. Vince and Cindy bought a small two-story, 1925-vintage colonial-style, house a year ago, and all the place needs is "some paint, plaster, wiring, light fixtures, modern electrical outlets and junction boxes, new carpeting, refinished wood floors, linoleum, kitchen cabinetry, a new water heater, additions to the radiator heat system, roof vents, attic insulation, landscaping to improve drainage, mud jacking, some concrete work, new or renovated windows, and so on. In other words, we bought a long-term hobby." Cindy was busy working on her Masters thesis, as well as being the designer/slave driver in their house-renovation project. Vince was induced to audition for the Bel Canto Chorus, a group of about 140 amateur and professional singers who do 4-5 performances per year, and is now one of their baritones. They found Milwaukee to be very cold in the winter and muggy in the summer.
Chandler Wilhelm '79 finally got in touch with us and brought us up to date on how life and the science of geology have looked from the state of Texas for the past few years. Since receiving his M.S. from the University of Colorado in 1983, Chan has been living in Houston with his wife Laura and working as a petroleum geologist for Shell Oil Company. Until last fall he was employed by one of Shell's international subsidiaries, which provided him an opportunity learn about the geology of many different parts of the world. Since last November Chan has been working for Shell's domestic subsidiary, looking for natural gas along the Texas Gulf Coast. The new job has had a whole different set of challenges, but has overall been just as interesting as International exploration. Chan and Laura have two daughters. Anna, who is now four, has become a "walking barrage of questions about bugs, the moon, you name it, as well as an expert on the use of the telephone." Their younger daughter, Rachel, recently turned two and spends her days playing with all of her stuffed animal friends, when she is not following her older sister around. Chan hopes to bring his girls to Claremont sometime soon, to see where daddy went to school.

Garry Hayes '80 has been working hard getting a good geology program going at Modesto Junior College. He had 5 students transfer to four-year colleges this year, and has been helping a large number of elementary and high school teachers develop an adequate background to teach earth science to younger students.

Lorraine Schnabel '81 was married to Greg Cavallo on March 31, 1990. Greg is a New York boy through and through—he was born in Queens and raised on Long Island. He also happens to be a geologist, which is how they met six years ago, when they both worked for the U.S. Geological Survey in Denver. He now works for the American Museum of Natural History in New York City in their Mineral Sciences Department, where he is responsible for their X-ray diffraction equipment and spends a lot of time with computer manipulation and interpretation of X-ray data. Lorraine is finally actually working as an architectural conservator in New York City. She finds the real world a shock after spending a wonderful year at the Smithsonian's Conservation Analytical Laboratory in Washington, DC. Some interesting projects have come her way, including developing methods for cleaning of the masonry in Grand Central Station, and a brief analysis of the stone and conditions of the ornately carved reredos behind the altar at Trinity Church. She also did a brief study of mortars from Pompeii, and from a monastery in Guadalupe, Spain. Lorraine says it helps to have Greg available to do all her X-ray analyses—keeps some of the geology fresh in her mind, even though her main occupation now is low temperature geochemistry (i.e., weathering). A couple of papers are in the mill—one stemming from research at CAL, and one on treating biological growths on stone, which she will present at the 8th Annual Blodeterioration Conference in Ontario, Canada. Lorraine finally got to Europe, specifically for a stone meeting in Italy. Greg and she spent four weeks traveling through that country—Naples (got to see Pompeii and Herculaneum at last!), Rome, Florence, Venice, and Milano. Then she spent two weeks traveling the south of Spain with her sister and niece. Lorraine is happy, enjoying her career, and life in general.

Scott Stevens '81 has been busy since we last heard from him. He left Texaco several years ago to study economics and Mandarin Chinese at Harvard. In fact, Scott learned he had received a fellowship to study there just a week before Texaco declared bankruptcy and decided to close down their Los Angeles office. It was a wonderful opportunity for Scott and his wife to raise their two boys in the East. He received his M.A. in Regional Studies-East Asia in January of this year and is now working with ICF Resources, an energy consulting firm. Much of Scott's time is spent marketing overseas their expertise in coalbed methane, which involves drilling conventional gas wells into coal reservoirs. They have several projects in China and are pursuing opportunities in Eastern Europe, Poland and Hungary in particular. While at Harvard, Scott enjoyed visiting the mineralogical museum at the Peabody, but is quite certain our benitoite outclasses any Harvard specimen!
Laurel Vedder '81 will be Laurel Kirkpatrick by the time this Newsletter goes out. Congratulations! She is now living and working in the Dallas suburb of Plano (a Texan corruption of the Spanish word for plain "llano") and apparently it is as flat as the name suggests! Laurel is employed as a petroleum exploration geologist by ARCO International Oil and Gas Company and in the past couple of years has been boning up on the regional geology and petroleum potential of Europe and North Africa. In the course of her work she has had the opportunity to visit London, Milan, Frankfurt, Nice and Cairo — and even took a field trip to the Italian Dolomites and a Modern Carbonate Depositional Environments Seminar in the Turks and Caicos Islands. Laurel's husband, Craig, is a UCSB graduate and electrical engineer at Hewlett Packard (also a Cessna pilot, kayaker, windsurfer, hang-glider pilot, mountain-biker, and backpacker). Needless to say, she's keeping busy!

Carol D. Buchanan (Scripps) '82 is still doing environmental work (assessments of cleanups) on contaminated properties in various area of southern California, but for a different consulting firm. Her current work is in the westernmost San Fernando Valley, and Ventura and Santa Barbara Counties. Carol noticed Spencer Harris' name ('82) on a report from a firm in Long Beach, but when she called the office, Spencer had already left the company. Lorraine Schnabel and Cindy Braun Register, where are you?

Cris Robinson Norin '82 was not able to make the July 1st deadline for this Newsletter for a good reason — she married John Norin (HMC '90) on June 30. They honeymooned in the beautiful Canadian Rockies and saw "...lots of burrows and ammonites and trilobite tracks." John will spend another year at HMC for a Master's Degree in Engineering and Cris will continue to work for Levine-Fricke.


Steven Clemens '83 and his wife were at Cris Robinson's wedding in June and he proudly told us he had received his Ph.D. in May. Congratulations! Steve will be staying on at Brown as a Post-Doc for the upcoming year. During that time he will continue his research on the Indian Ocean monsoon and begin searching for the "perfect position". A conference at JPL in August will bring Steve back to the area.

Moira Smith '83 met Dave Mohrig at the GSA meeting in Tucson this spring, and they both agreed that they were sadly out of touch with fellow Pomonans. Mo is doing her Ph.D. work at the University of Arizona and had just finished the first draft of her dissertation and got the last of her manuscripts in the mail when she wrote to us in May. She was then leaving for central Alaska for the summer to work for a mining exploration company. (She said she may get used to having hot showers, meals cooked for her, and abundant helicopter time and decide never to return to academics!) On her return from Alaska, Mo plans to defend in September and then head off to Nepal for a few months. While there, she hopes to "bag a few peaks and contemplate career choices - preferably something that involves ~ 6 months of vacation a year!" Good luck, Mo!

Ann Sturdivant '83 is now working as an engineering geologist for the Planning Unit, State Water Resources Control Board, Los Angeles Region. She enjoys the work immensely! Ann tells us that she has a diverse set of responsibilities throughout Los Angeles and Ventura Counties, including field evaluations of lakes, rivers and streams; groundwater studies; and well site observation during placement of groundwater monitoring wells. She also finds herself in the political arena rather frequently, especially during the ongoing battle to protect the groundwater from nitrate by restricting the use of private sewage disposal systems. After presenting a poster session at the Palm Springs meeting of the Pacific Section AAPG in 1989, Ann was asked to co-author a paper on...
geochemistry of sediments from the Guaymas Basin hydrothermal system (Gulf of California). This work stemmed from her M.S. thesis, and has been written in conjunction with staff from Scripps Institution of Oceanography, La Jolla and Oregon State University, Corvallis. In her "spare" time, she tries to keep up with her two-year-old twin sons, Victor and Tavish. Ann is sure they are budding geologists - they love to invade the rock garden (which is full of her beloved field samples from past excursions), pile them up, or drop and break them.

Joe Stagg '84 ended his stint as an orthotics technician in June 1989 and, after unemployment and various false starts, took a job with Benton Engineering in San Diego in August of the same year. He works in the lab, testing soils from construction sites (compaction, consolidation, expansion, shear, etc.), utilizing the degree over which he "lost so many nights' sleep!" Dave Bloom '85 is working there part-time and Joe has been introducing him to the joys of civil engineering. Always the wanderer, he says he is still in the travel mode and Sweden continues to fascinate him (for personal reasons!). A three-week sojourn to that part of the world is planned for September of this year. Joe keeps in touch with Jeff Jones '84, who is now married and he and his wife are expecting a child. Write to us, Jeff!

Brad Cornell '85 has left Webb School where he was involved for four years in teaching Geology, Chemistry, Physics and Technical writing, in addition to conducting many paleontological excursions. Brad has just completed his first year of law school. He planned on working for a Property Professor at Loyola Law School this summer, primarily in the area of computerized research. Criminal law is his current fascination and he hopes to find a job with the District Attorney or a similar prosecutorial position. Brad helped out disadvantaged and troubled lower school students by being a volunteer in a tutor/mentor program for the 10th Street School in downtown Los Angeles. He found it to be a very rewarding and educational experience. Brad and Liz are expecting their first child in October and they are both thrilled and excited at the prospect of being parents. Liz is still teaching at Grazlde School in Hacienda Heights and receiving high marks for her efforts. The Cornells will remain in the area at least two more years but are not sure where they will end up. During the 5th year reunion this past spring, Brad caught up with Christian Mastor, Dave Bloom, Bill Azerado, and Joe Stagg.

Sharon Wechsler '88 received her Master's Degree from Texas A&M this spring, where she studied hydrogeology and engineering geology. She is now working as a Hydrologist with Kerr-McGee Corporation in Oklahoma City. The Hydrology Department handles environmental site assessments and remediation for the different operating divisions, as well as coordinating contractors responsible for some projects. Sharon finds her work challenging and is very happy with the variety of projects and the combination of project organization responsibilities, field work, and travel.

Peter Christiansen '87 sent us news from Ketchum, Idaho where he was working for the summer for a small gold exploration company, Blomyne, Inc. The company consists of some capital investment and several Princeton professors and graduate students as geological expertise. Last summer Peter spent three months exploring for disseminated gold in southwestern Montana; in September and October he was in central Idaho mapping and doing more detailed work on some of the company's existing properties. Because of the small size of the company, he is actually doing geologic mapping rather than just being a field assistant, for which he considers himself very lucky. In the course of their exploration activities last summer, Peter and his co-workers made the exciting discovery of shatter cones and shocked rocks in Montana that they attribute to a large meteorite impact. More detailed work is ongoing! (Look for an article in "Geology".) Last winter was spent doing 40Ar/39Ar analyses on his thesis rocks which he hopes will complement his thesis work nicely. After tying up some loose ends, a manuscript is now in preparation and ready to submit to
GSA Bulletin. Peter was officially admitted to a doctoral program at Stanford and he hopes to begin a project looking at deformation mechanisms in Sierran granite with Dave Pollard '65 as his advisor. Peter and Suzanne Davies (Scripps '86) are to be married in October. Suzanne is busy with wedding preparations while Peter is out “fooling around in Idaho!”. Our congratulations and best wishes to both of you.

John-Mark Staude '87 and Laura Pavan '89 will be married on Sunday, September 2 in Citrus Heights, California. Congratulations and best wishes from all of us.

Cara Davis '88 joined the Peace Corps after graduation and was sent as a freshwater fisheries volunteer to a village in the central rice lands of the Philippines. For the past two years she has been working with the farmers there, trying to extend and improve their methods of fish culture and assisting the local DA in soil analysis studies and with rural health programs, among other things. Cara's assignment would have been up in October of this year, but recent events in the Philippines have caused the program to be suspended. Because of that, her immediate plans are up in the air. Cara is looking forward to grad school in the fall of 91, possibly in hydrology.

David Secord '89 and his mother had a wonderful trip to Portugal, Spain, Gibraltar, Madeira, the Azores, and Denmark this past winter and early spring. David will be doing graduate work in the Zoology Department at the University of Washington in the fall under a prestigious NSF Graduate Fellowship. His work will be on community ecology of Invertebrates and algae on Tatoosh Island off the extreme NW tip of the Olympic Peninsula. Dr. Robert Paine, with whom David will be doing his Ph.D. work, started his career doing paleoecology of brachiopods, but has made his name as an experimentalist and theorist in ecology of living “critters”.

Libby Stern '89 has just finished her first year at Dartmouth College. She has started a research project to determine the extent of externally derived fluid infiltration associated with continental collision at deep crustal levels using stable isotopes. Libby enjoys Hanover and has taken advantage of the location by learning to rock climb.

Lora Stevens '89 spent two months last summer with the USGS in Tucson, Arizona on an NAGT Fellowship. In September of 1989, she accepted a position with the USGS in Menlo Park, working for the Branch of Igneous and Geothermal Processes (of Pat Muffler-Bob Tilling fame). It was thrilling and exciting for Lora to be working with the Branch of Risk Assessment in the aftermath of the October 17 earthquake, studying landslides and structural damage to the Bay Area. In September, she will join the graduate school at the University of Minnesota to study with Subir Banerjee in the Rock Magnetism lab.

Jim Anderson finds himself wearing two hats at the University of Hawaii at Hilo. Hat number 1 is that of an Assistant Professor and hat number 2 is that of Director of the Center for the Study of Active Volcanoes. The Center was funded by state legislative special appropriation last year. They are training individuals from underdeveloped nations in the current techniques used to monitor active volcanoes. The Center is cooperatively linked to the USGS’s Hawaiian Volcano Observatory and to the University of Hawaii at Manoa (Oahu). The first course began May 15 and involved students from Papua New Guinea, Mexico, and the Mariana islands. Jim is also currently working with Rick Hazlett on collaborative research on debris avalanches on Mount Vesuvius. He recently attended a meeting at Caltech on long-runout debris avalanches. Jim just got a grant to study the petrology of the Ninole Hills, Hawaii and is seeking additional funding for a broader Island-wide study, with geophysicist Carl Johnson. Also under discussion is the possibility of renewed research in the Columbia Plateau with George Walker from UH-Manoa. During the past year, the Geology Department has moved into their new Geology Building, and they are now able to offer the complete undergraduate curriculum.
Gerhard Oertel has now reached the mandatory retirement age of 70 and his teaching and administrative duties ceased in July. The effect for him, however, will be essentially that of an indefinitely long sabbatical leave at almost full pay. Gerhard plans to continue research and writing journal articles and perhaps a book for geologists on the mathematics of large strains. The Department allows him to keep his accustomed office and will continue to support his work.

Cindy (Braun) Register has moved from South Carolina to Ohio. She is job hunting and house hunting. "No kids, same husband!"

William Wadsworth and his wife, Martha, will be moving onto the Whittier College campus this fall, into one of three new homes being built to house "Faculty Masters". Their house will be associated with two residence halls housing approximately 200 students. It will be a change and a challenge for both of them. Dallas Rhodes and Lisa Rossbacher will occupy one of the other two houses, which means that two of the three families to begin this program at Whittier, are geologists' families! A paper by Bill and Alex Baird is in Canadian Mineralogist v. 27 (1989) p. 323-347, entitled "Modal Analysis of Granitic Rocks by X-ray Diffraction".