Pomona College
Alumni Newsletter

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Winter 2000

THE DEPARTMENT
Introduction

Our Newsletter was not purposefully put off to the millennium but Happy 2000 anyway! Rather, things were very hectic in the Spring what with my retirement, etc. Consequently, solicitation for alumni news was delayed from early Summer to Fall. In fact, we are tardy less than a season. On behalf of the faculty and staff, I send you our warmest greetings and best wishes. It has been a warm autumn but temperatures are normal now for mid-December but we are badly in need of rain. As is the usual routine, this “department report” will be followed by the alumni news notes and finally the alumni directory.

I would like to thank those who contributed news of their activities since the 1997 Newsletter. The response, frankly, was not quite as impressive as in 1997 (a great response year!) but we are grateful to those who did respond and encourage you all to take part in 2002 (?); your former classmates are really interested in what’s been up in your lives. And again, we want to express our gratitude for your ongoing good work (see also remarks at end of this section). The international recognition of our department is based to a large extent on the excellence of our graduates; keep it up!

Faculty

There has been one major change in the department faculty personnel. As most of you have been informed, and many involved, I retired in June after 37 years of teaching (more later). My position has been filled by a vibrant, enthusiastic and brilliant young woman, Katherine Siân Davies-Vollum (see her personal statement under “News Notes”) who will handle the soft rock end of things. In her short time with us, she has been a most impressive colleague and we have enjoyed her and her husband Ian. This fall semester, Siân taught Environmental Geology (35 students) and, for only the second time in our history so far as I am aware, going back at least to the 1940’s, Geomorphology (8 students). In the Spring semester she will handle Earth History and Sedimentology. Siân received her B.A. in Geology from St. Peter’s College, Oxford, followed by the M.Sc. degree in Environmental Technology from Imperial College and then the D. Phil. Degree in Earth Sciences also from Oxford. Her special interests include fluvial sedimentology and stratigraphy, paleoenvironmental reconstruction, plant
taphonomy, paleopedology, and paleoclimatology. Her dissertation is entitled "Early Paleocene Vegetation and Climate of North America" and the field work was in Wyoming's Bighorn Basin. She has several publications dealing with this work in such journals as "Palaios", "Paleogeography, Palaeoclimatology, Palaeoecology", and "Journal of Coal Geology". Prior to beginning at Pomona, Siân taught for a year each at Amherst College and Ball State University (Muncie, Indiana). I encourage you to meet her if you visit us.

A great piece of news is that Linda Reinen has just been granted tenure along with her promotion to Associate Professor. Little wonder! In looking at her teaching and research activities, as well as her service to the college community, one would think she was filling one and one-half positions rather than one-half! She goes far beyond the call of duty as hopefully my summary will provide testimony. Her 1997-1998 Steele Leave was most rewarding. Much of her research was conducted in the geophysical laboratory of Dr. Harry Green at U.C. Riverside. In collaboration with Dr. Green, Linda, as Principle Investigator, was awarded a 3 year grant ($149,000) from NSF to study "Dehydration Embrittlement of Serpentine at High Pressures: Implications for Intermediate and Deep Earthquakes". During the first half of her Steele leave she developed a complicated computer program that permits her to evaluate the parameters in a multi-mechanism model for fault slip. With a set of non-linear differential equations she is able to identify the key elements that govern whether faults will slip by stable fault creep or produce earthquakes. She submitted the results of this work this past June for publication in Geophysical Research Letters; the manuscript is currently in the revision stage. In addition to the numerical modeling just referred to, during the second half of her leave, Linda experimentally investigated the role of serpentine dehydration on the generation of intermediate - depth subduction zone earthquakes (see NSF grant referred to above). She was able to identify the conditions under which serpentine dehydrates at a pressure equivalent to 100 km depth. During the dehydration, serpentine transforms into olivine + enstatite + water. Her focus will be on how these transformations may contribute to the formation of faults at depth. Preliminary results of this laboratory phase were presented at the national meeting of the American Geophysical Union in December 1998; co-authors of the paper include Dr. Green and present Pomona senior, Susan Nielson, both of whom collaborated on the project.

In a third direction, Linda has undertaken field investigations of naturally deformed serpentinites, emphasizing micro- and macro-structures of these rocks to hopefully gain insight into the paleoseismicity of a serpentinized fault zone. In the summer of 1998 she directed a Keck Project involving macro-scale structures in beach cliffs in the Big Sur area. Results from this field work plus those from experimental work have been incorporated in a manuscript that is in press for the February, 2000 number of
"Geology". In addition, she published two "extended" abstracts on this field project, including a follow-up workshop in the "Twelfth Keck Research Symposium in Geology Proceedings". Her impressive professional activity during her Steele leave is further indicated by: her being selected as a "Faculty 21" representative from Pomona College to Project Kaleidoscope, a well-acknowledged educational program dedicated to improving the teaching of science, math, engineering and technology; her election to membership on the steering committee of the prestigious Physical Properties of Earth Materials (PPEM) of the American Geophysical Union (the only representative of a small liberal arts college ever elected to that body!) and her selection as editor of the PPEM newsletter; and, her appointment at the University of California, Riverside, as a visiting Assistant Research Geophysicist.

Many of these sabbatical leave projects continued during the 1998-1999 academic year. She attended the August 1999 Gordon Conference on "Grain Boundaries, Interphase Boundaries, and Surfaces in Rocks." She was invited to serve on a NSF review panel. She has been further honored by election to Councilor for the geology division of CUR (Council for Undergraduate Research). With a respite from teaching during her leave, she returned for the 1998-1999 year with great vigor, teaching three laboratory classes (Structural Geology, Introduction to Hydrology, and Earthquakes and Other Geohazards), one seminar class (Research Seminar; see also below under Grosfils) in topics related to the geology of the San Onofre beach area, and one independent study involving numerical models in geology. She served as advisor of two senior theses and as co-advisor for five non-Claremont colleges students (who had participated on Linda's Keck project on serpentinites mentioned above). Linda was active in both departmental and collegiate activities. She acted as "search officer" for the opening in sedimentology and was tireless in her organization of the search procedure. (From a most impressive list of candidates we feel most fortunate to have offered Siân the position and that she accepted!) Linda designed our new minor in geology. She organized the Fall, 1998, Geology Lecture Series. She has more than carried her load of service to Pomona beyond the department, foremost among which are membership on two important, influential committees -- the Information Technology Committee and the very active Curriculum Committee, which now is additionally involved with faculty position planning for the college.

Just as busy and productive was Eric Grosfils, who had his Steele leave in 1998-1999. He will be considered for promotion to Associate Professor with tenure next Fall. Despite picking up some of the teaching slack occasioned by Linda's leave in 1997-1998, Eric was prodigious in his professional accomplishments and, not surprisingly, had a most productive research program during his leave year. As with Linda, Eric is exemplary at involving students in his research, primarily in planetary geology. During the past three
years he has helped acquire funding for 30 students from 16 undergraduate institutions all of whom have made at least one conference presentation. In what could be a record, he (with Linda) co-authored 8 abstracts for papers presented at one conference, the 29th Lunar and Planetary Science Conference in Houston in 1998! Most of these were related to a Keck Consortium project on comparative (i.e., Earth, Venus and Mars) planetary geology held at Washington and Lee College in the summer of 1997 of which Eric was principal director and chiefly responsible for obtaining the grant from Keck. He was senior author of the "extended" abstract emanating from this study, published in the "Eleventh Keck Research Symposium in Geology Proceedings" in 1998. Eric was the recipient of a NASA-ASEE (American Society of Electrical Engineers) Summer Faculty Fellowship (1998) to perform AVIRIS hyperspectral remote sensing research at NASA’s Jet Propulsion Laboratory. He was funded for a Smithsonian Institution Short Term Visitor appointment to work with staff at the Center for Earth and Planetary Studies at the National Air and Space Museum during the Fall of his Steele leave (more below). Eric has concluded his work as co-organizer and co-author of a chapter considering the similarities and differences between volcanism occurring on the Earth’s seafloor and on Venus to be included in a forthcoming book (in press) entitled “Volcanism in the Solar System. From the Deep Oceans to Deep Space”. It is difficult to briefly summarize Eric’s many professional activities and achievements of his Steele leave; there were four major activities:

1) NASA-ASEE Summer Faculty Fellowship at JPL, summer 1998. He helped initiate a remote sensing analysis of the petrologically diverse, hydrothermally altered volcanic bedrock in the SW Cady Mountains using Airborne Visible Infra Red Imaging Spectrometer (AVIRIS) hyperspectral data. This project links to field-based mapping by Rick Hazlett (with colleagues at the Smithsonian and students) and a collaborative study of eolian deposits in the Cadys.

2) Part-time Faculty Appointment, JPL, October through May. In this position, Eric assisted the science team with preparations for site selection for the forthcoming Mars Surveyor 2001 mission.

3) Short-Term Visitor Appointment in the Center for Earth and Planetary Studies at the National Air and Space Museum of the Smithsonian. Three long-term collaborative projects were initiated in that position. The first involves his ongoing studies of volcanism and tectonism on Venus. The second treats volcanic and eolian stratigraphy in the Arrhenius region of Mars. The third, referred to above, focuses on the geometry and genesis of sand sheets in the Cady Mountains; this latter project is funded by Honda.
4) NASA-ASEE Summer Faculty Fellowship, Goddard Space Flight Center, Maryland (5/99-7/99). Eric worked with colleagues to initiate analysis of the Arrhenius region (Mars) using Mars Orbiter Laser Altimeter ("fresh", and at the time proprietary, data) in particular to assess impact crater morphology.

Eric continues to be involved in a couple of other projects. One involves the scrutiny of volcanic features on Venus to determine if there is a neutral buoyancy control of magma reservoir formation. In a project begun in the summer of 1996, he applies geophysical (seismic and gravity) data to evaluate the thickness of the sedimentary fill within grabens in Canyonlands National Park, Utah. He hopes to submit this work for publication this academic year. He has been funded to direct a Keck project to be held at Goddard Space Flight Center this coming summer; the students will analyze a portion of the Martian surface using altimeter and image data being returned by the active Mars Global Surveyor mission. Eric was honored by being appointed to the NASA Discovery Mission Science Review Panel (the only scientist present from an undergraduate liberal arts college) to help recommend the next spacecraft mission NASA will fly as part of its Discovery Program. He directed a highly successful Keck Terrestrial Remote Sensing Workshop based at JPL and Pomona last spring. Even during his year on leave Eric continued with some department activities. He has been our department representative to the Keck Consortium and has been a facilitator for interactions between the Mudd Science Library and our department. In 1997-1998 he chaired the Radiation Safety Committee and along with Linda was nominated to represent Pomona College as a “Faculty 21” member, Project Kaleidoscope.

In the academic year 1997-1998 prior to his Steele leave, Eric had a full academic schedule. In the Fall of 1997 he taught Structural Geology and the first offering of our Research Seminar in which students were involved in the spectrum of activities in a research project from beginning to end; that particular year the subject was remote sensing, specifically applying Magellan radar data to investigate volcanic processes on Venus. Now in its third year (see also Reinen and Hazlett), the course has all the desirable characteristics of “modern” instruction involving both research and teaching. In the spring of 1998 Eric taught both “Remote Sensing of the Earth’s Environment” and “Applied Geophysics”. Eric designed a course in “Planetary Geology” to be offered in 1999-2000. He advised two of our three senior theses. With Brian Penprase of the Astronomy Department, Eric co-designed a new Geology/Astronomy track for majors entitled “Earth Planetary and Space Science”. He participated in seven workshops and conferences on teaching.

Of course, Rick Hazlett’s main focus for the past seven years has been as overseer of our department. Over the years the administration of departments has been increasingly complex and time consuming. In spite of
this, Rick has been generous to a fault (i.e., completely selfless) in sharing his
time with students outside the classroom; see more on the academic side of
things below. He was co-author of an abstract of a paper “Widespread Late
Pleistocene Landsliding Event in the Area of Secret Spring Volcano, Southern
Oregon” that he presented at the 1997 G.S.A. meeting in Salt Lake City. He co-
authored a paper “Why use an Earth System Science Approach to
Education?” in an A.G.U. publication “Shaping the Future of Undergraduate
Earth Science Education -- Innovation and Change Using an Earth System
Approach”. With Dee Trent he published a N.A.G.T. Far Western Section
guidebook paper on the Poleta folds and Deep Spring Valley area for the
organization’s spring meeting. The same two authors have in press with the
Joshua Tree Natural History Association “The Joshua Tree Landscape”. And,
Rick has revised (1998) his first edition of “Pu‘uhonua-o-Honaunau, a
Family Discovery Book published by the Hawai‘i Natural History Association.
With Stan Mertzman (Franklin and Marshall) he is working on a joint
research paper on the southern Cascades). Typically, Rick devoted a
considerable amount of time to field research. He has ongoing mapping
projects in the Cady Mountains, with considerable student participation. In
June, 1998, Rick and five Pomona College assistant surveyors mapped the
complex Jackson Bay Great Cave Far Chambers on Jamaica; an article, along
with a map is in preparation. Also in 1998, he spent a month with students
mapping volcanic terrain in the Elkhorn Mountains NE Oregon for the
Oregon Department of Geology and Mines. It is to be published as part of
their state geologic map series. During the last week in July, 1998, Rick
participated in a Keck workshop on glacial geomorphology on the Juneau Ice
Field, Alaska. This past spring he visited the Gettysburg Battlefield to photo-
document the impact of heavy tourism on forest slopes and soils around
Little Roundtop, for environmental geology instruction. He has become a co-
investigator of a project to survey and monitor the Aleutian volcano Okmok
pending acceptance of a $5,000,000 grant proposal to N.S.F. With Dee Trent
and Matt Campbell ‘2000, he joined other Alaskan geologists in preliminary
reconnaissance work in the Okmok area this past July; if funded, the project
will begin in the summer of 2000. In 1997-1998, Rick pinched hit for me in
taking over Geology 8 (“Nature of the Earth”), while I was on sabbatical along
with “Mineralogy” and co-teaching “Introduction to Environmental Studies
(ID50) with economist John Jurewitz in the Spring. This past academic year
he taught Geology 50 (“Environmental Geology” and a second consecutive
large class (both upwards of 20) in Mineralogy. Again in the Spring (1999) he
taught Geology 50. As usual, immediately after the spring semester, he
directed and co-taught (with Dee Trent, Jane Nielson, Ken Hon (University of
Hawai‘i, Hilo), and Bill Bilodeau (Cal Lutheran)) our 10-day field course in the
southern White mountains (familiar to many of you as the “Poleta folds”).
As further indication of his selflessness with respect to his busy “formal”
schedule of administrating, teaching and researching. Rick ran Fall and
Spring break (1998, 1999) field trips to Death Valley and the Carlsbad Caverns-
Guadalupe Mountains area, respectively, the later with the generous field
assistance of Michael Queen. Rick continues to advise a great number of our majors. In 1998-1999 he advised five students (3 Pomona, 1 Carleton, 1 Colorado College) doing senior theses in connection with Keck summer research projects. He found time to organize and chair a Keck Consortium workshop on Earth System Science Teaching at Biosphere II last Spring. As mentioned earlier, much of his schedule is devoted to his many duties as Chair. Over and above the normal responsibilities of this position (e.g., budget preparation; curriculum organization; departmental report;) he spent a considerable amount of time conferring with contractors about possible building alterations to accommodate Siân’s research Laboratory and storage labs. He opened negotiations with a Pomona alum concerning the possibility of a substantial gift to the Geology Department. His work preparing for my retirement went largely unsung but certainly not unappreciated by me! His service (beyond serving as chair) to the college is enormous. In 1997-1998 he served on the important Executive Committee (which he had chaired the previous year) and was a faculty representative on the Admissions Policy Review Task Force and on the Trustee-Faculty Retreat Planning Committee. In the Fall of 1998 he served on the Watson Award selection committee. He has been one of the two or three busiest college faculty members with regard to alumni activities; just this past year he (1) spoke to the Phoenix Chapter on teaching environmental studies at Pomona. (2) led a 100-person hike along Earthquake Trail at Point Reyes, a 50-person hike along Point Reyes Trail and spoke on the 1906 earthquake, all for the Bay Area Chapter, and (3) escorted and lectured alumni on a cruise to SW Greenland, Baffin Island, and Hudson Bay in the late summer of 1998. In February and March he was interviewed (TV) twice on explosive volcanism for the Learning Channel and the Discovery Channel; these were aired this past summer. He helped with a seismological study of the local Indian Hill Fault on the proposed site for the proposed new biology graduate facility. Finally, he took part (a substantial part!!) in the faculty lecture series on scientific (i.e., environmental) concerns for the millennium.

At any rate I am terribly impressed with all members of the active faculty -- Linda, Siân, Eric and Rick. With their very innovative style they constitute a dynamic group well able to lead us into the 21st century.

I am afraid my activities pale in comparison to those of my colleagues! I’ll chalk it up to old age! As most of you are aware, I formally retired last June after 37 years at Pomona. I have been blessed by having had such wonderful and able colleagues and students, (now mostly represented by you alumni!). I treasure our past associations. As I stated in the solicitation for news I am very grateful to so many of you for your warm messages -- I am a very sentimental person and I treasure these letters; I have read each one more than once(!) -- I was even tempted to take them to bed with me!! I think most of you alumni at least have received by personal written thanks.
Rick, Lori, and other faculty and friends spared no effort in having a very nice retirement party for me at the Seaver House on May 6th at which there were upwards of 150 people. There were limericks, “rappin”, and presentations of gifts from so many. I was overwhelmed by the establishment of a Donald H. Zenger Fund of more than $12,000, generously contributed by Calvin and Molly Miller, Robert Bean, President and Catharine Alexander, Donald and Ann McIntyre, David and Virginia Pollard and Rick Hazlett. Linda and Eric overwhelmed me by establishing a Donald H. Zenger Award to be given in connection with the Woodford-Eckis Lecture each year. And knowing our new lawyer but geology major, David Saltzer, '95, established a fund for a Donald H. Zenger Annual Donut Day including a special apple fritter for me! All in all the party was fantastic, very heart-warming and put me on “Cloud 9” for days! The next day at the President’s reception for retiring faculty members, the Department presented me with a camcorder. I’d like you to know that I plan to stay relatively active; I have an office, larger than my old one, and it should accommodate essentially all of my accumulated junk; so, when you come by please drop in and say “hi”.


I held a Sontag Grant (from the college) from 1997-1999 to help (beyond my UNOCAL support) underwrite certain aspects of my Wyoming work on the upper Cambrian Gallatin Limestone and Mississippian Madison Limestone. Over the past two years I reviewed several grant proposals and manuscripts. At the 1997 Salt Lake City G.S.A. meeting I attended a short course “Paleosols for Sedimentologists” and this past October I attended and participated in the conference in Laramie on “Geology and Mineralogy of Wyoming and Surrounding Regions” referred to above. I was on sabbatical leave the Fall semester of 1997. During that August I field checked the units mentioned
above and studied some 50 thin sections of the Madison and continued the petrology aspect back at Pomona for most of the semester. My last year I “retired” from the N.A.G.T. - U.S.G.S. Cooperative Summer Field Training Program. In the spring of '98 I taught my usual “Earth History” and “Sedimentology”. Both summers ('97 and '98) and this past one as well (making 25 successive sessions), I taught at the University of Missouri geology field camp near Lander, Wyoming; Caroline Harris '98 was a student there in 1997 and a teaching assistant in 1998. I ran a field trip for the field camp reunion in 1997. I organized and convened the Annual Woodford-Eckis Lectureship both years and I agreed for the time being to continue to edit this Alumni Newsletter. I organized our research seminars (outside speakers; see later) in the Spring semester. For years I have been our departmental representative on the Public Policy Analysis faculty. I served on the Admissions Committee in the spring ('98) and last year chaired the Radiation Safety Committee. I continued to assist with the women’s varsity softball program on a part-time basis in the spring.

Staff

Lori Keala continues as our wonderful and dedicated departmental secretary. Her bookkeeping skills are remarkable and she plays such a major role in our operation. Lori is an invaluable “receptionist” and is extremely well-liked by both students and faculty. We have been blessed by outstanding technicians since our last newsletter. Presently we have with us Nate Gilbert ‘99, who, in addition to the other aspects of his position, is a computer whiz which is so important to us. He is off to a great start. Our two technicians in 1997-1998 and 1998-1999 were both obtained via our being part of the Keck consortium. Chris Oze (Whitman College ‘97) is now in his second year at Stanford and Carrie Elliott (Carleton College ‘98) has begun graduate work at Utah State this past fall. We wish them well, of course.

Students

I don’t believe in the past there have been any more numerous and eager students as we are presently enjoying. We graduated three students in May, 1998, but 7 finished in ’99 and 14 are slated for commencement in May, 2000. The geology class of 2001 will also be in double figures. Following are the ’98 and ‘99 graduates and their theses titles. Their track (see more later) if not geology and their college affiliation, if not Pomona, are given:

1998

Caroline Harris - “Geochemistry of Metamorphosed Dikes, Tobacco Root Mountains, Montana”, Keck Project
Karen Jager - “An Unusual Lava Flow in the Carson Quadrangle, Venus”
Bradley Thomson (HMC) - “The Thickness of Mare Basalts in Imbrium Basin”, (Lunar and Planetary Institute (L.P.I.)

1999

John Bershaw - “Character of a Columnar Jointed Erosional Remnant, Crawfish Lake Quadrangle, Oregon”, Keck Project

Nathaniel Gilbert - “Structural Geology of the Crawfish Lake Quadrangle, Elkhorn Mountains, Oregon”, Keck Project

Heidi Glasser - “A Discussion of the Proposed Low-Level Radioactive Waste Site in Ward Valley, California”

Alexandra Krull - “Fault Kinematics in the MalPais Sandstones of the Peninsula de Nicoya, Costa Rica”, Keck Project

Kyle McClure - (Environmental)“The Crawfish Lake Volcanoes”, Keck Project

Adam Nealey - “Tectonics and Volcanism of Italy”

Heidi Reeg - “Structural Variations in Deformed Serpentinites from Sand Dollar Beach, Monterey County, California”, Keck Project

Most Keck summer projects are intended for students who are between their junior and senior years (i.e., “junior projects”) and provide material for their theses (see the above list of senior projects). Those members of the present senior class who did such projects this past summer are:

Jessica Jager - “Using AMS to Determine the Source of the Lower Bonanza Tuff, SW Colorado”

Phil Skemer - “Ophiolitic Rocks on Syros Island, Greece”

In addition, there are some “sophomore” Keck projects that have been undertaken by several of our students including:

Beth Bradley (‘00) - “Experimental Melting of a Low Grade Peltic Schist from the Rangeley Formation, MA” Summer 1998

Matt Campbell (‘00) - “The Geology of Okmok Caldera, Umnak island, Alaska”

Nina Carranco (‘02) - “Geophysical Interpretations of a Jamaican Slave Cemetery”, Summer 1999

Miriam Krause (‘00) - “Developing a GIS for the Spring Creek Watershed, Northfield, MN”, Summer 1998

Alix Krull (‘99) - “Viscosity of Venusian Lava flows: Constraints from Fractal Dimensions and Chemical Dimensions”, Summer 1997

Sean Williams (‘01) “The Hydrology and Aqueous Geochemistry of the Baker Woodlands, Lancaster, PA”
NOTE: All those having participated in either (or both!) Keck junior or sophomore Keck Projects presented their findings at the Keck Research Symposium the spring following the summer research. Apart from Keck, others of our students, present seniors included, have carried out summer research:

**Beth Bradley** (’00) - “Using Mars Orbiter Laser Altimeter Data to Map the Medusae Fossae Formation”, Pomona Summer Undergraduate Research Project (SURP) at Goddard Space Flight Center, 1999.

**Karen Jager** (’98) - “JSC Mars 1 - A Martian Regolith Simulant”, LPI Internship 1997; results presented at the 29th L.P.S.C.

**Miriam Krause** (’00) - “Altitude Distribution of Uncategorized Intermediate Volcanoes on Venus”, 1998 Pomona SURP project, results presented at the 30th LPSC 1999.

**Miriam Krause** (’00) - “The Distribution of Magnetic Sources on Mars as Related to Surface Geology”, Cal Tech SURF (Fellowship), 1999; co-author of abstract for Fall Meeting, Geological Society of America.


**Susan Nielson** (’00) - “The Effect of Foliation Orientation on the Strength of the Trommsdorff Serpentinite”, Pomona SURP project, 1998

**Susan Nielson** (’00) - “The Water of the Claremont Colleges: A three Dimensional Model”, Schulz Environmental Award, 1999.

**Matt Paxson** (’00) - “Coastal Erosion and Land Use Problems on Galveston Island”, 1999.

**Phil Skemer** (’00) - Earthquake Location on the Scotia - Antarctic Margin”, IRIS Internship, 1998.

**Amy Vithayathil** (‘00) - “Antigorite Dehydration and its Implications for Intermediate Depth Earthquakes”, supported by NSF grant to Reinen 1999.

Our major student awards are now all presented on class day (day prior to commencement) and the summary of these awards for the past two years are:

**Richard E. Strehle Memorial Award in Geology**
1998 Caroline Harris
1999 Heidi Reeg

**Donald B. McIntyre - H. Stanton Hill Geology Award**
1998 Karen Jager
1999 Alexandra Krull
Mason L. Hill Geology Award
1998 No award given
1999 Jessica Jager

In addition, there is the Isabel F. Smith Award, a prize given each year, usually presented at the annual Woodford-Eckis Lectureship Banquet:
1998 Alexandra Krull
1999 Beth Bradley

PROGRAMS AND CURRICULUM

In both the 1995 and 1997 newsletters I referred to the forthcoming renovation and updating of the science buildings and internal facilities. The capital campaign is still continuing and it is my understanding that geology will be one of the last departments to be refurbished. It appears that we will be in the same general quarters. The Andrew Building, located at the east end of Millikan and housing classrooms for mathematics and physics is slated for completion by the end of 1999 so as to be ready for occupancy at the beginning of the spring semester. Chemistry is scheduled for its overhaul next year. So, not much more to report on here so far as geology is concerned.

Over the past several years, there have been several curricular changes within our department instituted mainly in accordance with trends in the profession. We offer five tracks, some in concert with other departments: (1) Geology (this is more or less the standard program over the years but with several new courses as options such as geophysics, planetary geology, hydrogeology, remote sensing, research seminar, and geomorphology); (2) Environmental Earth Science; (3) Earth, Planetary, and Space Science (this track combines geology and astronomy); (4) Public Policy Major in Geology; and (5) Geochemistry. A system of "minors" has been instituted in the college and consequently, of course, we have such a program in geology.

There has been both praise and criticism of the 5 year old skills-based general education (i.e., "breadth of study") program "Perception, Analysis, and Communication" (PAC”) involving ten intellectual skills. Of these only one is necessarily science -- "Use and understand the scientific method". Two others, "Use and understand formal reasoning" and "Understand and analyze data" need not be restricted to science. Originally all teachers were required to submit supportive material for acceptance of their courses in the program. The system is up for official review this year by the Curriculum Committee (one member of which is Linda!)

The student computer room, currently with two P.C.’s and 4 Macs will be expanded into 212 annex and probably two more P.C.’s installed. Since the last Newsletter, through the efforts of Linda Reinen, we have procured a SPOT Cooled Color Digital Camera for use on our Olympus petrographic
microscope. In turn, output can be linked to our slide maker. Siân has used start up monies to purchase a particle size analyzer that uses laser-based technology to calculate the range of particle sizes (between 0.375 and 200 microns) in a sample. The machine is linked to a computer that permits the operator to view graphs and statistics for the grain size distribution.

In mid-November the department held a week-end retreat at Cambria to discuss the present and future directions of our curriculum and other academic matters. This planning is part of a "self-study" we are undertaking this year that will include a visit by a two-person team next April. We have not had such a study so far as I know (it would have been pre 1962!), and it promises to provide a suitable guide to help direct us at least in the near future. Our 2000 and 20th Woodford-Eckis Lecturer will be Dr. Jan Tullis of Brown University. Dr. Robert I. Tilling '58, of the U.S.G.S. was our 1998 Lecturer and did a superb job as was not unexpected. His evening lecture was entitled "Volcanoes, Volcano Hazards, and Society". The following day, as part of our seminar series (see below) he discussed eruption forecasting.

Arthur Sylvester '59, University of California, Santa Barbara, was our 1999 Lecturer and certainly lived up to the reputation of the Lectureship. His main presentation, "Taking the Pulse of California’s Earthquake Faults, was obviously of interest to all. Again, his second presentation the next day on granite plutons was part of the seminar series (see below). We are grateful to both of these outstanding alumni for sharing their expertise with us.

Our seminar series as well as other unscheduled seminars was established years ago as a means of exposing our undergraduate students to "outside" professionals and their perspectives. The list of speakers, and their subjects from Fall 1997 through December 1999 are, in chronological order:

Dr. Richard A. Schultz (MacKay School of Mines)
"Normal Faulting in Jointed Rocks: Results from the Grabens of Canyonlands National Park and Beyond"

Dr. Richard Ghail (Imperial College)
"The Structure and Composition of Europa"

Dr. Carl-Henry Geschwind (University of Maryland)
"Science California Style: Earthquake Seismology", 1906 - 1933

Dr. John D. Cooper (California State University, Fullerton)
"Paleokarst in the Lower-Middle Ordovician Pogonip Group, Southern Great Basin: Implications for Cyclic Sedimentation Patterns, Relative Sea Level Change, and Early Evolution of the Cordilleran Continental Margin"

Dr. Robert I. Tilling '58 (U.S. Geological Survey)
"Volcano Monitoring and the 'Art' of Eruption Forecasting"
(part of 1998 Woodford Eckis Lectureship program)
Dr. John H. Foster (California State University, Fullerton)
“New Techniques for Field Mapping: Integrated GIS and GPS”

Dr. John C. Tinsley (U.S. Geological Survey)
“Earthquakes, Water and You”

Dr. Laurie Leshin (University of California, Los Angeles)

Dr. David Oglesby (University of California, Santa Cruz)
“Dip-Slip Earthquakes: The Effects of Broken Symmetry”

Dr. Gordon B. Haxel (U.S. Geological Survey)
“Ultrapotassic Shonkinite and Rare Earth-Rich Carbonatite at Mountain Pass, California: Some Very Strange Rocks”

Dr. Harry W. Green II (University of California, Riverside)
“The Origin of Deep-Focus Earthquakes”

Dr. Arthur G. Sylvester ’59 (University of California, Santa Barbara)
“Origin and Emplacement of Granite Plutons: A Problem Solved?” (part of Woodford-Eckis program)

Dr. Ann Blythe (University of Southern California)
“Topography as a Function of Bedrock Uplift: Why the San Gabriel Mountains Look the Way They Do”

Dr. Calvin Miller (Vanderbilt University)
“Zircons in Granites as Indicators of Source Magmas” (approximate title)

Dr. K. Siân Davies-Vollum (Ball State University)
“Sub-Tropical Wyoming: Using Fossil Plants and Ancient Floodplains to look at Eocene Climate”

Dr. Valerie Sloan (University of Colorado)
“Glacial History and Monsoons on the Pakistan Himalayas”

Dr. Joan E. Fryxell (California State University, San Bernardino)
“Extensional Tectonics in Southern Nevada”

Dr. Paul Weimer (University of Colorado)
“Sequence Stratigraphy of Intraslope Turbidites”

Dr. Terry Tullis (Brown University)
“Rock Friction and Earthquakes”

Dr. James Zimbelman (Smithsonian), Steven Williams (University of Colorado), and Andrew Johnston (Smithsonian):
“The Mojave and Mars: A Comparison of Dunes, Dust, and Deserts”

Dr. Robert W. Decker (Dartmouth College; U.S. Geological Survey)
“Mauna Loa and Mt. St. Helens as Examples of Extreme Volcanic Behaviors” and “Global Frequency of Gigantic Volcanic Eruptions”
In addition, in the spring of 1999, Dr. Michael Queen (Carlsbad, New Mexico) presented two talks of a preparatory nature to Rick’s group traveling to the Carlsbad and Guadalupe Mountains over Spring break.

On a sad note, just about as we were going to press we received word that Rollin P. Eckis, one of our very loyal and supportive alumni (as many of you are aware) passed away on Friday, November 12th from complications due to Alzheimer’s disease. Rollin was 94. He is, of course, listed in the “In Memorium” section following but we felt a few special words are appropriate here. If any alumni would like a copy of a more complete newspaper obituary please contact me and I can get a copy to you. After matriculating at San Diego State University, Rollin transferred to Pomona where he was talked into a geology major by (of course!) A.O. Woodford. He earned a M.S. degree from California Institute of Technology in 1929. After eight years with Texas Oil Company he joined Richfield Oil Company as a field geologist in 1937. The next year he discovered the Kern County Oil Field near Bakersfield. Promoted to chief geologist, Eckis directed the geology that led to the discovery of several fields in the San Joaquin Valley. Becoming manager of Richfield’s foreign exploration, he was supervisor of the search for oil in Canada, South America, the middle East and most significantly, Prudhoe Bay and Cook Inlet on Alaska’s north slope, which started slowly but eventually emerged as a huge success and prompted the construction of the Trans-Alaska Pipeline. He advanced in position -- Richfield vice president, president, then (1966) executive vice-president of ARCO, formed by the merger of Richfield and Atlantic. Rollin and Caroline Eckis were loyal supporters of the Pomona Geology Department. In 1980 they endowed the Woodford-Eckis Lectureship, now in its 20th year. For several years Rollin served on the Pomona College Board of Trustees.

I am also sorry to report the September 27th, death, after a long illness, of a dear friend of the department -- Raymond M. Alf, founder and director of the Raymond Alf Museum on the Webb School Campus. Literally hundreds of former Pomona Earth Science students were exposed to Rays enthusiastic tour of the museum, including the Hall of Footprints.

Another good friend of the department, Cliff Gray passed away after a lingering illness. Cliff had been with the California Division of Mines and Geology for decades.

In closing this section I should point out that we are extremely fortunate to have been the recipient of a very generous gift to be used to support the faculty (and student) research from an anonymous former geology major. We are certainly grateful for “windfalls” such as this. However, in addition to financial gifts to us we continue to appreciate your carrying the word about our department outward, as I stated on the first page. A couple of great examples have just been made known to us -- John
Shelton's classic "Geology Illustrated" has been selected by the "American Scientist" as one of the top 100 science books of the century. Congratulations John! And, hats off to Sorena Sorensen, '78 (Smithsonian) who has been elected Councilor of the Mineralogical Society of America.

Very best wishes from all of us.

Don Zenger

P.S. I am very grateful to Nate Gilbert for handling the News Notes and to Lori Keala for updating the Directory and handling the several editions of the entire text.
ALUMNI NEWS NOTES

John Shelton ('35)

"I just ran through the roster at the back of the 1997 Newsletter. As I join the dwindling ranks of the oldest(?) living(??) Pomona College geologists my most vivid memories are associated with names from the 1930’s, ’40’s and ’50’s. We occupied the "basement complex" of Mason Hall where we ground our own thin-sections by hand, studied them under monocular microscopes with real (calcite) Nicol prisms, and feasted on Woody's wonderful library, pamphlet file, map collection and drawers full of rocks and fossils. Also unforgettable were the informal afternoon sessions over teacups (and sometimes beakers) at which Woody would fill in the chinks of our limited curriculum with discussions of current literature, historic perspective, and topics such as economic geology and geomorphology that could not be offered as courses in a one- or two-man department.

"I particularly enjoyed our field trips: All day at Laguna Beach and Palos Verdes Hills with the beginning class. Long weekends to the Alvord Mountains and Kettleman Hills. Five-day trips to the Keystone thrust and Weiser Bowl in southern Nevada. Summer field camps north of Eureka, Nevada (Mt. Hope mine), Santa Ana Mountains, Cuyama Valley (1952 Arvin-Tehapachi earthquake gave us a good shaking) and Turtle Bay in Baja (with Donald McIntyre).

"In the 1997 Newsletter Donald McIntyre mentions the completion of his little book James Hutton: The Founder of Modern Geology, published that year in Edinburgh. I hope all of you will someday see it. One of my most rewarding tasks last year was to review this gem (kindness of Donald) for the Journal of Geoscience Education, (March 1999 issue). Hutton might have said: ‘Don't let computer models keep you from looking at the record in the rocks, where they are.'

"Personally, I still supply geological photos to publishers and others, but the business is slowing down. I stopped flying in 1992. Still play tennis (doubles only) 2-3 times a week; recently Mary Ann and I enjoyed a good workout with Ivan ('51) and Tish Colburn. My second hip replacements have yet to cause me any pain (or to trigger the metal detector at any airport). Don't know how long any of these will last."

Mel Swinney ('40)

"Not much has happened regarding our situation since the last newsletter. All but one of our eight grandkids are now grown--three are gainfully employed, two are in college, one is in the Coast Guard, one a senior in high school and one is only 12 years old doing what ever 12 year olds do.
"Gwen and I made a driving trip a couple of years ago back to Rochester Hills, Michigan to attend a high school graduation of number 2 grandchild of our Michigan son's family. Drove back via Canadian highway #1 from the Idaho border to Sault Ste. Marie. We kept wondering why drivers flashed their lights at us during our several day crossing of Canada and didn't find out until we were at our son's place that Canada requires you to keep headlights on anytime you drive-day or night. We may take another driving trip to the East, but this time by a somewhat more direct route.

"Gwen and I are still in good health, play a bit of bridge, some golf, try to keep the yard looking reasonably acceptable and go over to Sedona, Arizona from time to time to a timeshare we have and enjoy the Redrock country.

"Enough's enough. Our best wishes to geology alums where ever you may be and Don it's amazing how busy you are when retired."

Edward Beaumont ('46)

"Most anything that happens to me these days, professionally and otherwise, happens because I am old. Most recently (late September) I attended the 50th Field Conference of the New Mexico Geological Society. Three of those attending this year had been on the first field trip. The attendance this year was about the same as in 1950 (200 participants). I was pleased to be able to contribute in 1999 as I had done in 1950."

Jack Vedder ('48)

"I am still active in the Scientist Emeritus program at the U.S. Geological Survey in Menlo Park. Recent results include geologic maps of the Big Pine Mtn. and San Rafael Mountain 7.5 minute quadrangles and an article on a condensed succession of Upper Cretaceous to lower Eocene strata in the same area.

"Recent recreational travel has taken us to some of the remote South Pacific Islands (Easter, Pitcairn, Tuamotus, Marquesas, and Cook Islands) and to the "outback" of Brazil. We also make three visits a year to our modest adobe just outside of the town of Magdalena, New Mexico, where the panoramic views are endless, and the lifestyle is simple and relaxed."

Art Krause ('48)

"I'm not in touch with too many Pomona Geologists but am still active with the Utah Geological Association and the College of Science courses and lecture series, at the University of Utah. Will always welcome a call from Pomona folks when they pass through Park City, UT. If I am not home I am on the ski hill."
Thane McCulloh ('49)
Thane is still in Dallas but the exploration consulting business is drying up so he will probably move back to the Pacific Northwest soon. He still spends time volunteering for the USGS in Southern California.

Robert F. Yerkes ('50) <ryerkes@sierra.wr.usgs.gov>
Bob and Sara Ann Yerkes celebrated their 50th wedding anniversary in 1995. “Of our two daughters, one graduated--with husband--from Pomona; of our four grandchildren, one graduated from Pomona this spring, a second will graduate next spring, and a third is ‘looking’.”
Bob has specialized in the geology of southern California for the U.S. Geological Survey. In 1986 the U.S.G.S. presented to him the U.S. Department of Interior’s Distinguished Service Award for "...his significant contributions to the fields of regional geology, engineering geology, seismology, and marine geology." Now (Oct. 1999) observing his 48th-plus year with the U.S.G.S. (emeritus since 1995) Bob still makes daily attacks on the map he was compiling when the Survey "downsized" in 1995: a full-color digital geologic map of the Los Angeles 60-min. (east to west) by 30-min. (south to north) metric quadrangle. This map is one of about twenty such in the Southern California Areal Mapping Program (SCAMP); it covers about 1955 square miles and its scale is 1:100,000 (1 cm. on the map equals 1 km. on the ground). It includes the Santa Monica Mountains and western third of the San Gabriel Mountains, as well as the epicentral areas of the 1971 San Fernando, 1989 Whittier Narrows, and 1994 Northridge earthquakes.
The Los Angeles 60-min. by 30-min. quadrangle is in turn being assembled by joining together digital geologic maps of the 32 "standard" 7.5-min. by 7.5-min. quadrangles that make up the Los Angeles sheet (their scale is 1:24,000, or 1 cm. on the map equals about 0.24 km. on the ground). For more details, illustrated descriptions, and "downloadable" examples of the SCAMP program see <http://geology.wr.usgs.gov/wgmt/scamp>.”

Warren Pedersen ('53)
"For the past couple of years most of my consulting work has focused on the interpretation of surveillance data periodically being collected from a number of dams and reservoirs in southern California. This activity constitutes a component of the on-going assessment of the satisfactory and safe performance of these dams and reservoirs.”

Douglas Fletcher ('55)
Doug is semi-retired and is writing his third book, Management-Leadership in Today’s Network Organization: Strategies and Structures for the 21st Century. For the last 25 years he has had a successful consulting practice, Performex, which helps companies develop executive talent and implement performance management practices to hold people accountable for results.
Peter Newman ('57)

"My life in retirement, after a career in oil exploration, consists of training for triathlons, racing, and travel. The last significant geologic site I visited was Venus de Milo's marble quarry on Paros Island (Greece) in August '99. I'm planning a trip for next spring to the Canary Islands with John Killen '57."

Patrick Muffler ('58)

For the past 2-1/2 years Pat has been the Western Regional Geologist for the U.S. Geological Survey, with purview over all the Geologic Division activities west of the Rocky Mountains. In this role, he oversees six "Teiss": Astrogeology, Coastal and Marine Geology, Earthquake Hazards Earth Surface Processes, Mineral Resources, and Volcano Hazards. "Needless to say, I have to be a mile wide and an inch deep!") But it's the right job at the right time, and he is enjoying it very much. It's a great opportunity to become knowledgeable about an incredible diversity of earth science, and to do a lot of traveling (with offices scattered from Tucson, AZ to Anchorage, AK and the Big Island of Hawaii). The downside is that he has virtually no opportunity to maintain his geothermal involvement or to bring to fruition the publication of his geologic mapping in the Lassen region of NE California. On the personal front he and his wife, Pat, still live in the same small house in Palo Alto (since 1967), which is now about the right size for the two of them. Their daughter, Kasey, is finishing up a Ph.D. in Clinical Psychology at the University of Texas and has an internship at the Veterans Administration Hospital in San Francisco.

Mike Garner ('62)

He is still doing extensive testing on the relative hardness of aluminum and underwater limestone formations in the inshore Eastern Gulf of Mexico. Steve Massey '63 accompanied him on a test run last February, and caught a 12 lb. Redfish. "He apparently has lost touch with Geology, because we didn't hit any rocks that day."

Mike's e-mail: seaspray@xtalwind.net

Douglas W. Sprague ('62)

"I have been vulcanized....CalMat was bought in Jan. of this year by Vulcan Materials Company...for the better...as we are now run by operators rather than bean counters." His latest challenge was the development of a mining and reclamation plan for a mine site on the Pala Indian Reservation in San Diego County. To be completed in 6 months without existing baseline data. The plan's objective, as required by the Pala Band, was to restore fan function in a complex alluvial fan system. This included provision for groundwater recharge, sediment transport and restoration of the pre-mining mosaic of oak woodland - coastal sage scrub habitat. They had the site crawling with geologists, fluvial-geomorphologists, groundwater
hydrologists, biologists and revegetation specialists alongside an active drilling program. The effort was hampered by the breeding season of the California gnat-catcher (a listed species under the Endangered Species Act) and the suspected presence of the arroyo toad—another listed species. "Mining in California is impossible at best."

"The 610 acre conservation bank at Cajon Creek is up and running, providing mitigation for impacts to habitat/species from off site projects in the L.A. basin. A case study of the bank's formation was presented at the Society for Ecological Restoration's annual meeting in San Francisco earlier this year. Restoration of the A.H. "bug eyed" Sprite is close to completion... a minor glitch required the removal of the cam to adjust the oil pump drive pin."

**Prudence Bekh ('64)**

I continue to live in Albuquerque, New Mexico. Currently she is unemployed: taking a break from clinical practice (mental health counseling) but considering reentering the workforce within the next few months (unsure as to what capacity, however).

Traveling and spending time outdoors (eg. hiking camping) are still two of her great loves. Just this month (October, 1999) her husband (Brooke Bergland) and Prue took a "road trip" to Arches National Park, Flaming Gorge Recreation Area, Grand Teton and Yellowstone National Park. Astonishing, intriguing, dramatic country and and good for their soul to be in the midst of it again. And, this May she treated herself to a trip to Don Zenger's retirement celebration at Pomona. "That definitely was one of the highlights of my year - delightful to be in attendance to honor him and all of his contributions to both the Geology Department and the College. In addition to having the pleasures of seeing Don once more, I was fortunately reacquainted with Barbara Lowe who was present with her new husband! I felt sorry not to see others of my classmates but was happy to see so many other geology and Don Zenger enthusiasts (mostly younger than me, of course)."

"My best wishes to all as we embark on the new millennium. And please be in touch if you are ever out this way! (Telephone: (505-344-1853)."

**Jim Williams ('64)**

"I am now finishing my fifth year as Dean of Faculty at Cirtus College. I am no longer teaching any classes, and as a consequence the only Geology I see is in the class listing as it crosses my desk. I have recently become responsible for the Vocational Programs as well as Science and Math, so Allied Health, Dental, Auto, Diesel, Public Service and Cosmetology Departments now also fill my calendar. Construction supervision is now playing a major role in my life. The last few years I have been the Instructional Administrator on at least 4 major building remodels and the Library starts in January 2000. Trying to run programs while the building they are located in is out of service for 12 to 18 months is quite a challenge. I still
make the Woodford-Eckis Lectureship regularly and it is nice to see all the other old timers and meet the students”.

David Pollard (’65) is happy to report that his term as Chair of the Geological and Environmental Sciences Department at Stanford University was over a couple of years ago and since that time he has been devoting all of his energy to teaching and research, primarily at the graduate level. His program in Quantitative Structural Geology and Geomechanics is flourishing and recent graduates have found teaching positions at Bryn Mawr College in Pennsylvania and at the University of Idaho, a postdoctoral research position at Arizona State University, and an industry position with Anadarko in Houston. Funding for research is as competitive as it has ever been, but a combination of federal agencies (NSF and DOE) and an industry consortium are helping to support the students and their research. We are focusing on the formation of faults and fractures in sedimentary basins and the influence of these structural heterogeneities on the flow of groundwater and hydrocarbons. The availability of 3D seismic data to determine the complete geometry of faults and their slip distributions, along with the phenomenal speed of modern computers, has motivated us to develop 3D numerical models of these structures and enabled us to understand how they evolve in much greater detail than could ever be deduced from outcrop data alone.

Exciting news for both Virginia and David is a half sabbatical year in 2000 that will take them to the University of Edinburgh, Scotland. Dave will be working on a textbook in structural geology that has been in progress (slow!) for almost ten years, but is within a couple of years of completion. The time in Edinburgh will help him to put the finishing touches on many of the chapters. The book takes a quantitative approach to structural geology and encourages students to use calculus, continuum mechanics, and computer-based exercises to understand the evolution of structures.

David’s father, Dean R. Pollard, died in December, 1998. Dean graduated from Pomona College in 1933 with a major in geology. He shared many wonderful stories with us over the years about what it was like to be one of Woody’s students. Although Dean did not practice geology as a career, he considered his Pomona education to be one of the most valuable experiences of his life, and he was a strong supporter of the college and its ideals.

William A. Plourde, Jr. (’66)

“Gil” was a geology "adoptee". He actually was an economics major but took quite a few geology courses under Drs. McIntyre, Zenger and Baird. After Pomona he went to law school (UC at Davis) and upon graduation went to work in a large LA law firm. Six years later he joined Toyota where he served as General Counsel and later as Senior Vice President. He retired from Toyota in June of this year and is now pursuing various projects which have been repeatedly postponed in the past. “I love retirement.” He lives with his wife Karen in Palos Verdes Estates, California. “We have one son and a
grandson.” He loves raising certain flowers including tulips and waterlilies. “The waterlilies have been spectacular this year,...prolific, large blooms with an almost indescribable scent.”

Bob Micheal ('66)

“My oil and gas lease advisory and acquisition business, is currently surfing the wave of the coalbed methane boom which has really shaken things loose in the old-and, some thought, tired-basins of the Rockies—particularly Wyoming, which is my forte. It keeps me busy hopping to Cheyenne to purchase leases for clients at the Bureau of Land Management auctions every other month.

“Not that I’m too busy to enjoy the finer things in life—still playing lots of volleyball even though I’ve begun to notice in the past year the knees are starting to complain a lot more than they used to. I don’t make any more dives onto hard gym floors—only in sand! I take “Intermediate Volleyball” at the local junior college. It gets me out of the monastic isolation of my home/office 3 times a week during the day for a great workout. It’s a real kick in the pants to be able to hold my own with kids all of whom could be my children.

“It’s been a great year for the outdoor adventures. I’ve been doing some peaks I’ve dreamed of in the mountain ranges I’ve always wanted to get into, such as Cloud Peak in the Wyoming Bighorns and Mt. Ellen, high point of the lonely Henry Mountains in Utah. Rainier is my “millennium project” for next year. Maybe the Chilean Andes?

“My quiz show career isn’t over YET. I got a call from one of the guys NOVA hired to produce the “NOVA Science Quiz” (which, you may remember, I won). He works now for the Fox Network which is launching a new show called—GREED! This fellow remembered me and invited me to audition (in beautiful downtown Burbank)—I passed! The taping was November 16!”

Gene Pearson ('67)

Next Fall he begins his 30th year teaching at the University of the Pacific. He has thoroughly enjoyed the interaction with students and faculty colleagues over the years. “I thank Don Zenger for showing me the way to a most rewarding life.” His year as chair of the University Academic Senate ended in June of 1999 and he has now happily returned to almost full-time teaching (except for the occasional search committee.) His four-person Geosciences Department is looking forward with much anticipation to their move to new facilities in the Fall of 2000. As Second Vice President of the Far Western Section of the National Association of Geoscience Teachers (NAGT), he is looking forward to the Spring of 2001 when Pomona College will host the section meeting.
Todd Hinkley (1967-68) is at the USGS in Denver, working as Federal coordinator of the Southwest component of the National Climate Change Assessment, and proposing that quiescent degassing of volcanoes supports the naturally-high (pre-industrial) background of trace metals in the atmospheric load, based on measurements from volcano plumes and Antarctic ice.

Craig Gander ('76)
He continues to be employed by Harding Lawson Associates in Denver where he practices geology, hydrogeology and geochemistry. Most of his time is spent managing investigation and remediation projects for companies dealing with contaminated sites in Colorado and surrounding states.

Paul Weimer ('78)
Paul received the Bruce D. Benson Endowed Chair in Petroleum Geology at the University of Colorado-Boulder in August 1999, and continues to serve as the Director of the Energy and Minerals Applied Research Center. The May 1998 AAPG Bulletin was a special issue, comprising nine papers that all originated from an industrial-sponsored, Gulf of Mexico research project from 1992-1996 at CU-Boulder. In fall 1998, he convened a joint AAPG/EAGE research conference in Almeria, Spain (home of the Spaghetti Westerns) titled "Developing and Managing Turbidite Reservoirs: Case Histories and Experiences," organized a two day deep-water symposium at the AAPG International Meeting in Rio de Janeiro, and convened sessions on deep-water reservoirs at the AAPG Hedberg Conference in Galveston and at the AAPG Annual meeting in San Antonio. He also served as the Oral Session Chairman at the AAPG International meeting in Birmingham, England in September 1999. He was an AAPG Distinguished Lecturer in 1998-1999, which included a stop at Pomona on April 27th. He is starting a new deep-water research consortium in the northern deep Gulf of Mexico. They expect 25 companies to support them for the next three years. He is organizing the 2000 GCSSEPM Research Conference on deep-water reservoirs of the world, and the Diamond Jubilee (75th) Symposium for the SEPM in June 2001. He will chair the AAPG Distinguished Lecturer Committee for the next four years. The AAPG will publish his book with Roger Slatt (CSM) entitled "Petroleum Geology of Turbidite Systems" during mid 2000. Seeing Don Zenger before his May retirement party was the highlight of the year.

Garry Hayes ('80)
"I'm in my 12th year of teaching geology at Modesto Junior College. We hosted the Fall 1998 Conference of the National Association of Geoscience Teachers - Far Western Section, where we introduced members to our 'backyard': Yosemite National Park, the caverns of the Mother Lode, the San Andreas Fault and the Coast Ranges. I'm looking forward to Pomona College hosting the event in a year or two. My kids are practically grown. Jean McKay and Don Zenger may remember my daughter Sarah crawling about the
department back when I was the lab assistant in 1980-82. She's started college (and hangs out in my office a lot). My son Andy just started high school. My wife Susan got her teaching degree and has been putting together an innovative fine arts program at our local elementary school.

Look me up at http://virtual.yosemite.cc.ca.us/ghayes/"

Lorraine Schnable ('81)

"I am in my fifth year working as an architectural conservator in the offices of John Milner Associates, Inc., an architectural firm with several small offices on the east coast. The past two years have brought a promotion to project manager, and responsibility for a staff of two conservators. JMA does primarily preservation of large commercial buildings. I am involved from the beginning (condition assessment and materials analysis) through design (drawings and specifications) to construction (meetings and site visits and shop drawing review). A far different world than the one I trained for at Pomona! I still use my geology (and all the other science I took as well) in the evaluation of building stones other kinds of building materials. I guess you could say I have really developed an understanding of economic geology--after all, all masonry building materials have an original natural (geologic) source! Milestones this year include my first concrete building (c. 1906 in Allentown, PA-for all who don't know, in the Lehigh Valley, which was the birthplace of Portland Cement in the U.S.) and my first terra cotta building. Finally this year I have also put together the rudiments of a lab (a polarizing light microscope, fume hood, balances, etc. etc.) It is pretty primitive yet, but then, so is much building materials analysis. Keep hoping to have time to change that, but architecture is a very project-driven field. I settle for baby steps each month, and hope I'll get a paper out again someday before I retire!

"Far more significant than work, however, are changes at home. In May of 1997 my daughter, Julia, was born. She is now 2 1/2, and a pure delight--like a present I get to open every day, and every day there is a new surprise inside. A very talkative and smart little girl (but then, I might be a bit biased...). I work four days a week so I can have at least one at home with her, and it is usually a lot of fun (after all, she is a terrible twol). Julia is teaching me most of the important things I really need to know about life, the universe and everything. I just have to remember to pay attention in class!

"Would love to have visits from any alumni in the Trenton area. We have plenty of room for visitors, and usually there is cold beer in the fridge!"

Ann Sturdivant ('83)

"I am now licensed in California as a Certified Engineering Geologist and Certified Hydrogeologist. I'm still working for the California Regional Water Quality Control Board (Santa Ana Region), and I was recently promoted to the position of Senior Engineering Geologist. I am now the supervisor in charge of the Spills, Leaks, Investigation and Cleanup Program, and the Department of Defense site cleanup Program. I also oversee the
Aboveground Storage Tank Program. Busy, busy days!!!! I love this job, and am having a wonderful time learning all the interesting site histories as I take over these new responsibilities.

"Barrett, my spouse of 21+ years, continues to work in inventory control at various warehouses. He is also very involved with our boys in their Boy Scout and Cub Scout activities, and is the best barbecue chef in the Inland Empire! Our three boys are having a great time in scouts, and doing well in school, too. The twins are 12 years old, and our youngest is 6. Our home is full of activity, with the two dogs, rabbit fish, and about 25 (varying with nest season) birds!!! Even with all that ruckus, we really felt the 7.1 Hector Mine quake at our house in Moreno Valley!

"We are looking forward to these tumultuous holidays, and I wish my fellow Pomona geologists a very happy and blessed holiday season, with rich rewards in the year 2000. If you'd like to send me a note, my e-mail address is asturdiv@rb8.swrcb.ca.gov."

Brannon Ketcham ('94)

Since last he communicated with most "Pomonaites", he spent two years at the Duke School of the Environment, 2.5 years at Point Reyes National Seashore (just north of San Francisco), and has recently ended up back in North Carolina. After earning a Masters in Environmental Management, concentrating on Water Resources, he made his way to Point Reyes working on a variety of water issues. He worked on a fisheries habitat restoration program and as park hydrologist, covering a variety of water quality, supply, and resource protection topics. He moved back to North Carolina in January of this year to join the nonpoint source pollution management program for the state. "I suppose you could say that, for now at least, I have traded hurricanes for earthquakes." He works on project oversight of a nonpoint source grant program, and has gotten his hands into a number of arenas on nonpoint source policy and program management. He has maintained contacts with work being done on stream restoration, and has spent many days working with the concepts of geomorphology. "I must say, that my time in geology at Pomona was very well spent. It is interesting that no matter what I seem to be doing, I am able to tie the geology background into the picture." As he continues, he is honing his skills at grant writing and management, for an eventual return to the West with the goal of mixing his interest in watershed protection and water quality with fisheries habitat restoration... As for life outside of work, things are going well. The opportunities in the middle of North Carolina do not quite compare to the northern California coast, but he seems to be managing just fine. "I'm glad to see that Dr. Zenger has not strayed too far, and Rick, I've seen your name pop up at more than one bookstore or the occasional natural disaster show... Good thoughts to everyone."
Geoff Siemering ('94) finished his M.S. in Soil Science at UC-Berkeley last March. His thesis topic was the "Behavior of Uranium and Arsenic in Central Valley Wetland Sediments" (so much for exotic field locations). "Now I'm working at Lawrence Livermore National Laboratory as a technical editor. I was married in May and am now living in Oakland. I can be reached at gsiemering@yahoo.com."

Rachel Sours-Page (HMC '95) is still at Oregon State University. Her Ph.D. in MORB petrology should be done by mid-June, 2000. She's looking for a postdoc in petrology of MORB or planetary geology starting in fall, 2000.

Evan Bilstrom ('96) says, "Hello everyone! After getting my M.A. in teaching from Willamette University in Salem, Oregon, I'm now teaching freshmen Integrated Science at Gladstone High School in Gladstone, OR (just south of Portland). That, along with coaching JV Boys Soccer, is keeping me on the busy side. I've managed to get down to Claremont on a few occasions and visit with some professors and alum friends which has been great. Other than that, just looking forward to what is supposed to be another phenomenal ski season up here and if that interests you, feel free to stay over (I'm an hour from Mt. Hood)."

Christian Schumann-Curtis ('96) In the summer of 1997 he was employed at Image Scans, Inc. He was a grunt-level technician operating photogrammetric scanners (for aerial photography) and beginning to realize he was in a dead-end job at a dead-end company. He was starting to take classes in preparation for the GIS option for the Masters of Engineering degree program in the Civil Engineering department at Colorado University, Denver. His wife was starting heavy course loads at Metropolitan State College of Denver so she could get her undergraduate degree in biology in preparation for a Naturopathic Medicine degree, to be completed at one of three colleges west of here. In fall of 1998 conditions at Image Scans deteriorated as he wanted to help the company grow and his supervisor wanted him to leave. So he left Image Scans and went to work for Stellacore Corporation, a photogrammetric software company. He was in charge of production and customer service. He developed the procedures for using the software and wrote the user manuals. He also got to do some on-site customer training. In spring of 1999 Stellacore downsized. As his "severance package" the owner of Stellacore gave him 2 powerful computers and all of the company's software and suggested he could use it to do some business for himself. He said that if he made money he could pay him back. If not ... whatever. He figured it'd be less hassle than looking for a job. He called up two friends from his days at Image Scans. They were both more than happy to leave Image Scans and help him start up a business. So, he, Jon Proctor (UC Berkeley), and Shaun Callaghan (KU) started Front Range Ortho GIS Consultants, Inc., or FROGIS for short. Check them
They are using a revolutionary new software process for orthorectifying digital aerial photography. “We can produce digital orthos at a tenth the price of traditional photogrammetric techniques. We’ve been instrumental in producing the data behind the AirphotoUSA CD products, which are 1-m color image datasets of various metropolitan areas, mostly in the western U.S. We’ve produced over 30,000 mi² of digital ortho aerial photography in less than 6 months. The company is strong and growing fast. It’s going to be an interesting ride.” Meanwhile, close to home, he and his wife have begun the adoption process. They should be parents within a year or so. “I hope this message reaches you in good spirits. Enjoy the quakes.”

**Darren Gravley (CMC ’96)** says,

“Greetings from the land down under, I am having the time of my life... Well, I started my Masters in volcanology in March of this year. I am working on a large ignimbrite formation in the Taupo Volcanic Zone in the North Island of New Zealand. My project encompasses structural geology, petrology, sedimentology, volcanology and geomorphology in an attempt to discover the caldera source and timing of this explosive eruption deposit. Tell Rick that it is his fault that I am undisciplined when it comes to restraining my project to one component of geology... his interest in so many areas of geology has rubbed off on me and I would like to thank him for that. Well, enough geology, the past two years have seen me working for a geotechnical company in Orange County and traveling. I finally made it to South America... definitely my favorite part of the world. My goal is to get back there some day to work, maybe volcanology maybe not... I am always leaving my options open and just trying to do what seems like the best option at the time... my only scale for weighing my options has been happiness... seems like a pretty good equalizer to me. I love this country of New Zealand and don’t see myself leaving anytime soon... met some great friends, spend as much time in the mountains as the beach, and generally enjoying myself... postgraduate life is great.”

*Darren’s e-mail: d.gravley@geol.canterbury.ac.nz*

**Karen Franz (’97)**

“I am the Administrative Project Manager at the Los Angeles Music Academy. What that means is that I am the Financial Aid Officer for the school, the General Manager of the Student Store, the individual in charge of accreditation, energy-efficient retrofits and cost-effective studies, graphic design for all promotional literature, and of course a bit of recruiting and doing meetings among too many other things. What that has to do with geology is the question I will probably be pondering for another little while. In addition, I am working on my Masters degree at Cal State Los Angeles (in the evenings). I am studying an interdisciplinary combination of Geo Engineering and Geography / Urban Analysis. I guess this ties me back into science somehow.
"As for plans for the future: my goal is to be a sustainability consultant for businesses and the community. And to live one day at a time".
Karen's e-mail: karen@lamusicaacademy.com

Caroline Harris ('98)
After graduation, Caroline served as a T. A. at the University of Missouri Geology Field Camp in Wyoming, which she attended as a student the year before (1997). For the remainder of that July and part of August Caroline was part of a group, largely of Missouri graduate students, doing research on Precambrian rocks of the Laramie Range in SE Wyoming. Caroline spent the late Summer and much of the Fall as a naturalist at Lava Beds State Park in Oregon and during the Winter and Spring (1999) she worked as a hydrologist with the U.S.G.S. in Kansas City. In July she left for Japan where she had been accepted in the Japan Exchange and Teaching (JET) program, her duties being the teaching of conversational English. Just recently, based on some comments I (Don) had made in Earth History, she sent me a couple of beautifully pressed and preserved ginkgo leaves! In case you would like to contact Caroline, the address is as follows (She does access her e-mail irregularly--harriscaroline@hotmail.com):

Brad Thomson ('98)
"I am in my first year of graduate school at Brown Univeristy. I am in the planetary geology group. I fill my time by looking at evidence for ancient water on Mars, and also studying lava flows on both Mars and the Moon."
Bradley_Thomson@Brown.edu

John Bershaw ('99)
"I write this from a small internet cafe in a small surfing pueblo called Tamarindo in Costa Rica. I feel like I've been put back into my mother's womb. Next, I am off to Mt. Bachelor in central Oregon to snowboard and continue pursuing graduate opportunities, hopefully in a foreign, backwards country. Since I left Pomona's geology nest, I have been in Berkeley delivering pizzas and wandering Europe. Peace to all."

Nathaniel Gilbert ('99)
"Well, I liked the geology department so much I just couldn't leave. I'm working as the technician for a year and enjoying being at Pomona without having to do homework. I spend my days doing technician type things and my evenings hanging out with friends, going to lectures or working on a portfolio so that I can apply to art school. (Nope, I'm not going to geology grad school... at least not right away.) If that doesn't work out I think that I'll go to the French Alps to hopefully find work and definitely ski. If that doesn't work then I'll try the Rockies. Weekends I've been going rock climbing quite a bit. My brother is a freshman at Pomona this year so I get to spend more time with him now. My parents came down for Thanksgiving and we all went to Arizona to see some family and then to Santa Barbara to
see friends. If any of you geo folks are in the area give me a ring at 909.621.8677. I miss you, Class of ‘99. Rock On!”

Andy Gill (’99)

"Things here in Puerto Cortez, Honduras are going pretty well. I'm cranking out science classes to 7th-11th graders and trying to run some labs as well. The labs are fun because since we don't have a lot of chemicals (or at least the ones we do have are so old and dirty I'm afraid to touch them!) we end up doing a lot of experiments with kitchen type items, which means... we get to EAT our experiments! Horray! For example we did an M&M chromatography lab, and sugar and Jello crystal lab, and a powdered milk mixture lab...The kids love it! (me too!) Teaching is a challenge cause we are low on supplies and I am LOW on experience. (It's run basically like a regular high school in the states, except half the teachers have never taught before!) However, my energy has been high and my skills are evolving slowly. The second big thing in my life is volunteering at a boys home. It's a place for boys with no parents or abusive families. They don't have anything for me "to do" but I just come with games and activities and play with them. The thing is, I probably enjoy it more than they do, as I get cuddled with hugs and hands on the back the whole time I'm there! As I told Nate though, they are all very mature and even though a 12yr old may only be in the 2nd grade, his ability to relate to an adult is tremendous. Finally, my interest in geology has NOT waned and I've been going to the nearby mountains almost every weekend. Just enjoying the scenery and meeting some amazing people!"

Heidi Reeg (’99)

"I am currently working at an outdoor science school in rural New Hampshire teaching environmental and experiential education. I love the time spent outdoors and the fact that I am making an impact on the kids I work with, especially in how they view others, themselves, and the earth. I spend about half of my time teaching lessons about ecology, wildlife, the surrounding forest and wilderness survival, and the other half working on building trust, communication and self-confidence through initiatives and a ropes course. I plan to continue in this field, although I may be in Idyllwild in the spring."

Alix Krull (’99)

She has started her first year at Stanford with the hopes of eventually getting a Ph.D. in geology. She is working with Don Lowe looking at Archean rocks, with a focus on impact deposits in order to better understand how these impacts may have affected the early evolution of life. She is re-learning chemistry and reading a lot of articles, as well as exploring the beautiful Bay area. "Although I absolutely love it here, I certainly miss Pomona and everyone in the department. E-mail me at akrull@pangea.stanford.edu, and if you are ever in the area, please drop by for a visit."
Pranoti M. Asher says,

"Is it time for another newsletter already? How time flies...

This past year has been very hectic and exciting for me professionally! I am still teaching at Georgia Southern University in Statesboro. I continue to teach the hard-rock and introductory geology courses. Last spring I was involved in team teaching a course in Volcanology with a colleague. We took the students on a 16-day trip to the SW United States to examine volcanic features during the first part of the summer. We spent most of our time in Arizona and New Mexico looking at cinder cones, Maar deposits, calderas, etc. My 35 mm slide collection has doubled since this trip! I also participated in a NSF sponsored workshop in Bozeman, Montana and had a chance to visit Yellowstone National Park.

"I also managed to find some time to do my own research between all my travels. I am continuing to work on the Mesozoic diabases in New England. Now, I am focusing on the dike outcrops in Maine rather than Connecticut. I spent lots of time using XRF to analyze all the rocks I have collected.

"The summer was over before I knew it (and so was the gnat season in Georgia!). The Fall semester is going pretty well. I am team teaching a course in Tectonics with a structural geologist and a tectonic geomorphologist. We spent our Fall Break in Southern California looking at several segments of the San Andreas Fault. It was great to drive along Lone Pine Canyon Road, Wrightwood, Cajon Pass, Wallace Creek and other wonderful places on our field trip. Unfortunately, I did not get a chance to stop by the department on this trip. Perhaps the next time I am in California. I am eager to see all the changes on campus and in the department.

"At the recent Geological Society of America meeting in Denver, I met up with several Pomona folks. I had a chance to visit with Eric Grosfils several times during the meeting. It was nice to see him again and catch up with all the departmental news. I also met Mark Hespenheide '95 and Lora Stevens at this meeting. I saw Jane Nielson briefly during the meeting.

"On a personal note, my husband Michael S. Kelley finished his Ph.D. at Rensselaer Polytechnic Institute in Troy, NY. He has a one-year National Research Council Post-Doctoral fellowship at Johnson Space Center in Houston. He will finish his fellowship this coming May and move to Georgia! We look forward to living together in the very near future.

"I would like to stay in touch with my friends, colleagues, and former students from my days at Pomona. If you are planning a trip to the deep south or the city of Savannah in the near future, please get in touch with me. I would love to see all y'all (in GA, y'all is singular; all y'all is plural and all y'all's is plural possessive) again. You can reach me via email at pasher@gasou.edu or via phone at (912) 681-0338."
Siân Davies-Vollum

"Hello there! My name is Siân Davies-Vollum and I’m the new faculty member in the Geology Department. I’d like to take this opportunity to tell you something about my geological background and myself. I grew up in the south of England, where fossil-hunting trips to the coast and a visit to the Natural History Museum in London sealed my fate as a geologist at an early age. I took my bachelors degree in Geology at St. Peter’s College, Oxford. My senior thesis took me to the southwest of France where I undertook a sedimentology-oriented mapping project in a field area that included a number of local vineyards! An interest in the burgeoning field of environmental science prompted me to attend Imperial College, London where I gained an M.Sc. in Environmental Technology. The course really broadened my scientific experience and I found myself researching the "hot topic" of radioactive pollution for my dissertation. My field area was close to the nuclear reprocessing plant of Sellafield on the northwest coast of England and I studied radioactivity in estuarine sediments near to the plant.

"As much as I enjoyed my year of environmental science, I missed rocks so I went back to Oxford to start work on a Ph. D. thesis. I researched paleoenvironments and paleoclimate of North America following the K-T boundary event. This line of research took me to the United States for the first time in 1991. I spent three months working out of the USGS in Denver, carrying out fieldwork in northern New Mexico, Wyoming and western Montana, what an incredible experience! The following year I took some time off from research to spend two months working for an oil company and take part in an expedition to India where I met my husband, Ian! I had the opportunity to present the results of my research at two international conferences, in Tokyo and Paris, and defended my Ph.D. at the end of 1993.

"After getting married and returning from a six-month backpacking honeymoon in Asia, Ian and I found ourselves leaving England for Washington DC. I spent three years as a Post-Doctoral Research Fellow with the Smithsonian Institution’s Natural History Museum. Working in the Paleobiology Department, as part of a research group studying paleobotany, the sole sedimentologist! I worked on the sedimentology and taphonomy of fossil plant-bearing deposits, a topic that is still the main focus of my research. My field area was and still is predominantly in the Big Horn Basin of Wyoming. More recently, I’ve also been working in New Mexico.

"My first US teaching experience was as a visiting professor at Amherst College where I got my first taste of a Liberal Arts College whilst helping to start-up an environmental program in the geology department. After my year at Amherst I moved to Indiana, where I had a tenure track position in the Geology Dept at Ball State University. After a year in the mid-west I was moving again, this time to Claremont and Pomona College.

"I take over from Don as the "soft rocker" of the department. I am honored to “follow in the footsteps” of such a wonderful geologist and really nice guy. I will be teaching the courses in sedimentology and earth history as
well as two new courses: an introductory course in environmental geology and an elective in geomorphology. I won’t be taking over from Don as coach of the women’s softball team but, in that same tradition, you can find me teaching the aerobics classes at the Rains Center.”

Don Doehring

“My wife Barbara and I have been enjoying retirement which has included quite a bit of foreign and domestic travel, spoiling our grand children, playing golf, gardening, and bird watching. I have continued to serve on the Governor’s Council on Natural Hazard Mitigation and continue my geologic research. I have recently co-authored a chapter in a U.S.G.S. Professional Paper, have a paper in press and one in review.”

Carrie Elliott

“After a great year as department technician at Pomona College I have moved on to graduate school. I’m in a masters program at Utah State University focusing on fluvial geomorphology. The transition from Claremont to Logan, UT was fairly smooth, although I enjoy seeing the mountains every day in the clear air up here, and am getting excited about the upcoming ski season. (Probably in February I’ll be wishing I was back in Southern California!) I had the opportunity to begin my graduate program on a river survey crew that rafted through Lodore Canyon in Dinosaur National Monument this August. I am looking forward to working on my boating skills this spring so I can conduct my thesis research in Desolation and Gray canyons in Central Utah.”

cme@cc.usu.edu

Donald McIntyre

“In 1997 we had a grand celebration of James Hutton’s contribution to geology; it was the bicentennial of his death. But my involvement continues! First, I was invited to write an extended version of my Opening Address - a task that kept me traveling to the libraries in Edinburgh and St. Andrews. At both Universities I am privileged to be an Honorary Fellow. My historical essay on “Hutton’s Edinburgh: The Historical, Social, and Political Background” is published in Earth Sciences History, vol. 16, p. 100-157, and Honnold Library has copies of this essay as well as my illustrated book on “James Hutton: Founder of Modern Geology”. Alas the latter has not been reprinted yet, though it continues to be in demand.

“In reviewing “Hutton’s Edinburgh”, science historian David Oldroyd asks how I “square” enlightened Edinburgh with the “horrific” conditions of the nearby coal mines. Responding to the challenge, I am busy writing on “James Hutton and the Rise of the Scottish Coal Industry”. I love leading field trips to such famous sites as the Siccar Point unconformity and Dunsinane - MacBeth’s hilltop fortress. I am also often asked to speak at local schools and civic groups.
It seemed wise to move in 1998, while we remained in excellent health, from our home on the south-facing escarpment of the Devonian lavas, with its fine view, to Perth where driving would not be a necessity. We were able to build a penthouse in the pedestrianised center of this historic city. We even have a roof garden! Cara Davis was our first Pomona visitor, followed by the Glazner family, and Steve and Marthe Norwich.

"An outstanding memory is my delight in accepting President Stan Hales’ invitation to speak at the dedication of the splendid Timken Science Library at the College of Wooster. My interest in Piobaireachd (classical bagpipe music) led me to demonstrate at the annual meeting of the Piobaireachd Society how a computer can print and even play this music.

"Ann and Ewen are well and continue with their many activities such as starting an ecumenical support group with disabled people. With the Queen’s approval, Ewen was installed a member of the Venerable Order of St. Johns in Aberdeen’s ancient cathedral. But most of all, we enjoy keeping in touch with old friends by e-mail and welcoming visitors. We are indeed fortunate.”

E-mail: donald.mcintyre@kinfauns.demon.co.uk

Gerhard Oertel

Gerhard collected data (misprints and plain mistakes) for a possible new printing of my book "Stress and Deformation." It is uncertain, however, whether Oxford University Press will keep the book in print. I will send a list of errata to anyone who asks for it (the early errata lists were quite incomplete). Once it is out of print, I have plans to make a corrected version available on the internet if the publisher allows.

Three of my four grandchildren have reached teen age, two of them now live in Magdeburg, Germany (the site of the hemispheres by which the force of atmospheric air pressure was first demonstrated) and one in Madison, Wisconsin. Irmgard is still struggling with the after effects of the whiplash accident that was caused by a drunken driver during our last summer in Claremont in 1960. I administer acupuncture to her daily, and we avoid travel almost completely.

Gerhard Ott

"Hello! I am Gerhard Ott. You all know me: I’m the guy who runs around with a camera taking pictures of all of you, at the Woodford-Eckis Lectures. I have been with the Biology Department for about 38 years now, but also work, on occasion, for the Geology, Chemistry, Psychology and other Science Departments on campus. For 35 years, I did lab set-ups, photography, microscope repairs, animal care and other science-related tasks. Upon my retirement three years ago, I was immediately rehired (!!!), to do some of the same things, only on a limited basis. Naturally, I was also retained to continue taking pictures at the Woodford-Eckis Lectures. At one of these lectures (after my retirement), the Geology Department honored me with a special announcement and wonderful gift for Uschi (my wife) and me! I have
truly enjoyed my relationship with the department and the occasional work
I've done for them over the years.

"Since my 'retirement,' Uschi and I have traveled somewhat, from
Hawaii and Germany (for our 50th Wedding Anniversary!) to San Francisco
and Las Vegas (where we visited a former Pomona student who is now a
successful neurosurgeon and owns two airplanes!). Our health has remained
good, and we hope it will stay that way for a while longer!

"Greetings and love to you all, and we hope to see you at the next
Woodford-Eckis Lecture."

Chris Oze writes,

"Life at Stanford is rather routine. . . I wake up. I ride my bike to the
office. I teach and take a few classes. I do some research. I go for a run. I
study. I eat and then I go to bed. Rinse and repeat. My current research
focuses on the environmental geochemistry of chromium, specifically in the
Sierra Nevada Foothill metamorphic belt. If anybody needs a low T, high T
environmental geochemist with strengths in aqueous chemistry, mineralogy,
igneous/ metamorphic petrology, isotope geology, and soil science, then give
me a call in about three years. . . maybe four years. For those of you still at
Pomona, please remember not to put hard boiled eggs in the tailpipe of the
suburban."

Jill Schneiderman writes,

"Lot's of exciting things have been happening in my life here in
Poughkeepsie (though I of course still miss aspects of life at Pomona
College which I frequently think of with great fondness!). I'm sure many
of you would like to know that my sweet old Pilar passed away on December
2, 1997. I miss her horribly, even two years later. But I feel good about
the 13 of her 17 years that we shared together. I now quite busy taking
care of another living thing, my son! Caleb was born on February 20, 1998
and every day he amazes me and my domestic partner, Meg Stewart, and
brings us great joy. It's been such a pleasure watching him grow and I'm sure
lots more fun is ahead for our family."

Jill has edited a book coming out in April 2000 entitled "The Earth
Around Us: Maintaining a Livable Planet". The book is a collection of essays
written by geologists such as Stephen Jay Gould, Orrin Pilkey, John McPhee
(honorary geologists) and many others whose names you'll know. (The Table
of Contents is attached). The essays are written for the general public and
convey to the reader the importance of knowing how the earth works for
seeking out a future that is sustainable on this Earth. She has two essays in
the book herself and has written the preface and part openers. She hopes
you'll pick up a copy. It is published by W.H. Freeman. Jill will be going on a
book tour in April so if you are now located in Seattle, Denver, Phoenix, New
York City, Boston, or Baltimore, look for the event at your local independent
bookstore.
She has taken a half time position as an academic dean at Vassar. So, she teaches two courses a year and ministers to students who need some academic assistance throughout the year. Though fall semester 1999 is her first try at this, she is finding it very satisfying.

"My regards to you all. I'd love to hear from some of my old friends. My email is schneiderman@vassar.edu. And if you find yourself in the Hudson Valley I'd love to see you."

Jill

The Earth Around Us: Maintaining A Livable Planet
Jill S. Schneiderman, editor
WH Freeman 2000
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In Memorium

1925 Paul H. Dudley, Rancho Santa Fe (11/7/97), at age 93; Phi Beta Kappa; Nu Alpha Phi; graduate work in geology, UC Berkeley; after teaching geology at Pomona, joined Shell Oil in Bakersfield, beginning a successful career as oil company employee and worldwide consulting geologist; served in U.S. Marine Corps., WW II; explored for oil in Australia, Borneo, Costa Rica, Colombia, and Philippines; Fellow of Geological Society of America; emeritus member, American Assn. of Petroleum Geologists; married Avis Bixby ’26 (1906-1969) in 1926; married Helen Curtis ’33 in 1974.

1927 Rollin P. Eckis, La Jolla (11/12/99), at age 94; graduate work at Cal Tech; field geologist with Richfield Oil; Chief geologist with Richfield; manager of foreign exploration in connection with which he helped direct the gret North Slope development; President Richfield oil; executive vice-president ARCO; member Pomona College Board of Trustees.

1932 Thomas Berry, Irvine (10/23/98), Sigma Tau Fraternity, captain of football team in 1931; letterman in track; geology major who worked under Dr. Woodford for 3 years; WWII as navy lieutenant, naval reserves; salesman floor division Armstrong Cook Company in Los Angeles.

1933 Dean Pollard, St. Helena (12/17/98), President Sigma Tau Fraternity, played varsity football, track star, worked in Casmalia Oil fields before returning to Pomona as A.S.P.C. graduate manager of the bookstore; in 1944 he was on the Alumni Council, chairman of Alumni Fund, and president of Alumni Association; began career at Pacific Telephone; retired in 1977 as VP for Administration of Pacific Telephone and President for administration of Nevada Telephone.

1934 Richard H. Merriam, San Marcos (4/3/98), at age 85, at the old Merriam family home; Ph.D. in geology, UC Berkeley; worked for U.S. Geological Survey before WW II; taught at Colorado School of Mines, and then USC for 30 years; prepared map/text for Calif. Division of Mines and Geology, covering the Merriam Mountains and surrounding areas; mapped faults and rock formations in Mexico and throughout North San Diego County; consultant for many companies and corporations.
1941 Robert J. Fernandes, Bakersfield, Phi Delta Fraternity; Pomona College Athletic hall of fame; 3 year varsity awards in football and track; co-captain '41 track team; military service in Italy and promoted to 1st lieutenant; worked for Gulf Oil Corporation as production advisor to the V.P.; U.S. natural gas executive V.P.

1942 Edward D. Sprotte, Fallbrook (5/22/98), at age 77; Sigma Tau Fraternity; graduate school followed service in U.S. Marines, WW II geologist/engineer in oil/gas exploration, Shell Oil Co.; geologist, California Division of Mines and Geology working with seismic hazard identifications, 1973-81; full-time avocado orchardist; consultant; married Norma Anderson '42 in 1943.

1943 Thomas Winchester, Upland (~November 1999) Involved with Nu Alpha Phi Fraternity; member of Naval reserve V-7, worked for Packard-Bell Computer.

1955 James Groom, Hacienda Heights (9/21/97) at age 64, Sigma Tau, M.A. in geology, UCLA; over 20 years, geophysicist, Union Oil Co., in Bakersfield and LA; nine years, owner, Astro Employment Agency, Whittier.

1955 Andrew W. Lewis, Tucson (1/31/99), at age 66, Sigma Tau Fraternity; VP Pacific Islands Division, Robert McMullan and Sons, Inc., painting contractors based in Honolulu; president Adair Travel, Inc. and Adair Contracting, Inc.; VP/general manager, Hawaii Marble & Granite Co., LTD, Honolulu.