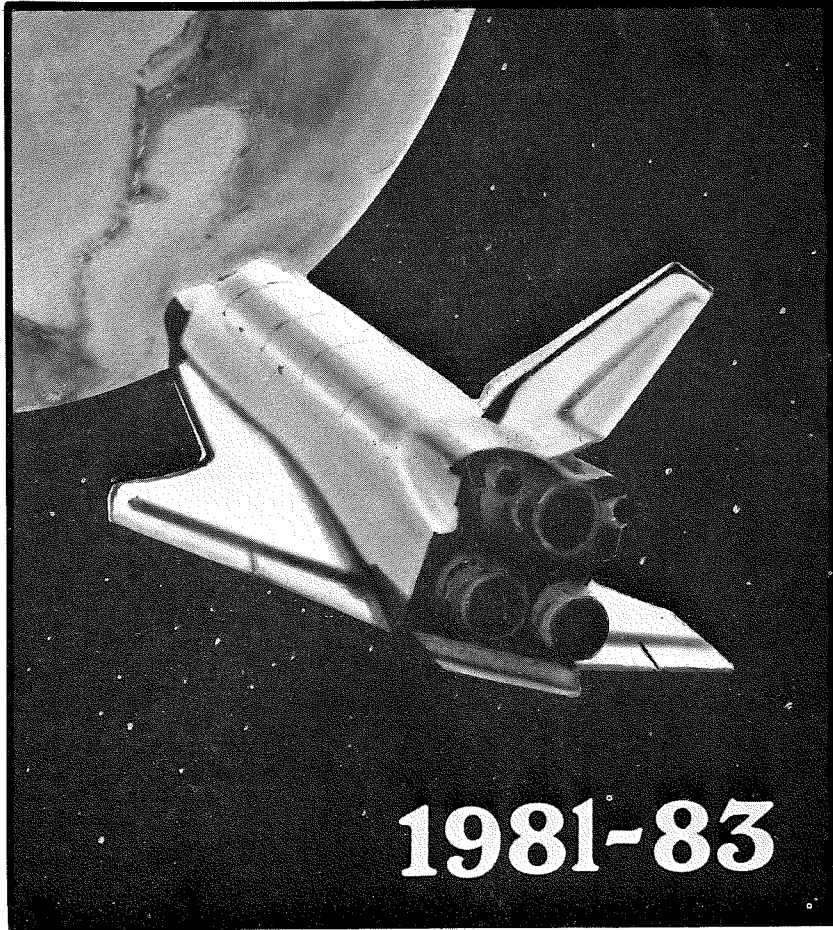
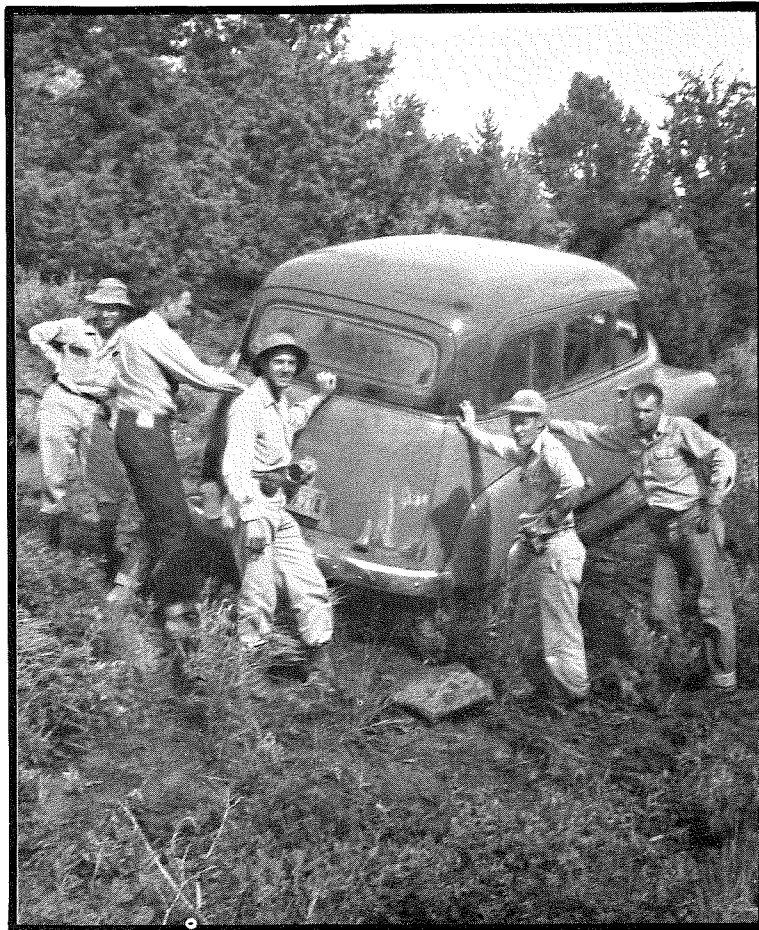
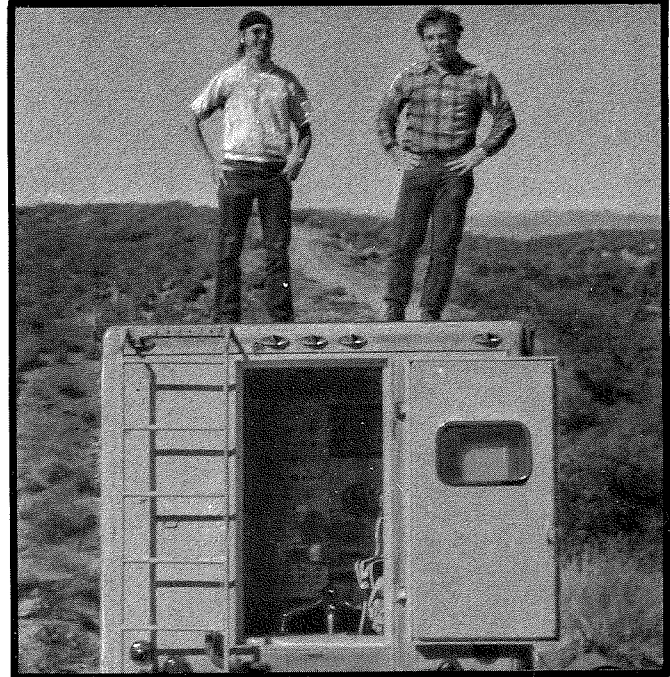


Ingersoll Earth and Space Sciences Newsletter



1981-83

space and planetary physics, Bill has been developing a theory for "magnetic bubbles" that occur in the solar wind and for instabilities that can occur in the atmospheres of Jupiter and Saturn. Bill has also been involved in some dynamical problems pertinent to astrophysics, notably the evolution of elliptical and barred-spiral galaxies as well as radiative transfer problems in the torus of Io and the interstellar medium.

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Gerhard Oertel, Dr. rer. nat., University of Bonn; Professor of Geology.

Although Gerhard measures strain, he creates none or "as little of a nuisance as is compatible with (his) mental makeup." He smoothed the Department's way somewhat this year by loaning it a small computer. Gerhard's current "line of work into which (his) students get dragged willy-nilly," is quantitative measurement of strain by determining the preferred orientation of phyllosilicate minerals or by any other method that comes in handy. He adds with typical understatement: "I also think about what the measured strains may mean geologically."

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Walter E. Reed, Ph.D., University of California, Berkeley; Associate Professor of Geology.

Ted pursues his interests in the provenance of sediments and their relation to tectonic setting. In fact, he pursued that interest to the most northerly, inhabited tip of the world: the island of Spitzbergen, 1000 miles north of Norway. Ted and two UCLA alumni, David Douglass (B.S., 1980) and Donald Lamar (Ph.D., 1961) worked at Spitzbergen for two and a half months from late June through September 1982. They mapped the Billefjorden Fault Zone in detail and believe its

Devonian sediments yield little evidence for a supposed 2000 km movement. NSF will probably sponsor four more summer field trips to solidify this hypothesis.

Ted's graduate class in "Sedimentary Petrology" allowed him to practice for Spitzbergen while they mapped the Eocene succession along the proto-San Andreas Fault. Ted also taught the undergraduate "Introduction to Sedimentary Petrology" and a lower-division class he fondly calls "Ain't Science Fun." Ted's own students are studying the Miocene sediments of the Topanga formation and their upper Cretaceous through Eocene sources.

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John L. Rosenfeld, Ph.D., Harvard University; Professor of Geology.

John has been working hard on a new, year-long petrology class for undergraduate majors. He taught the metamorphic section after Don DePaolo offered a quarter on igneous petrology and Ted Reed taught the sedimentary section. In the winter quarter, John worked with graduate students on metamorphic petrology and pursued an abiding interest in the cleavage of metamorphic rock and schistosity. John has used rotated garnets in schist to aid geological studies and define a major backfolding event in the western Appalachians during the Devonian near Brattleboro, Vermont, with colleagues from Boston College and Harvard University. John has two articles currently in press, one on rotated garnets in the *Vermont Geological Society Bulletin*, No. 32) and one on backfolding in the Alps and Appalachians in the *Encyclopedia of Structural Geology and Plate Tectonics*. John is also co-author with eleven others of "A crustal Profile of a Mountain Belt: COCORP Deep Seismic Reflection Profiling in the New England Appalachians," which was submitted to the *AAPG Bulletin*.

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J. William Schopf, Ph.D., Harvard University; Professor of Paleobiology; Vice-Chairman, Department of Earth and Space Sciences; and, Now, Ladies and Gentlemen: Dean, Division of Honors, College of Letters and Science (wonder if we'll have any faculty left when the "College" finishes gobbling up deans?).

Bill has a hectic schedule as professor, dean, member of editorial boards, and committee member for the National Academy of Sciences, UNESCO, and the International Council of Scientific Unions. In 1983 his work in Precambrian paleobiology earned him the Faculty Research Lectureship, the second in our Department to be so honored (Leon Knopoff was the first in 1972). The selection committee praised him for showing that evolution was physiological and biochemical, not morphological, for the first 85 percent of life's history. He was described as a "master teacher" (but has not as yet been discovered by the Emmy selection committee) who posed questions about "the origins of eukaryotic (i.e., nucleated) cells; the earliest photosynthesizers; later-evolving, oxygen-producing photosynthesis; and the earliest sexual reproduction...." The Faculty Research Lecture will be given on April 19, 1984.

For seven months this year, Bill hosted Cao Rui-ji from the Institute of Geology and Paleontology in Nanking. This completed a symbiotic exchange started when Bill did field work and visited scientific institutes in China in 1978, 81 and 82. Before Dr. Cao left in March, Bill took him to Mexico and the Bahamas to collect stromatolites (or so he said). In June Bill trekked off again to lead a Precambrian Paleobiology Research Group (P.P.R.G.) jaunt through Michigan, Minnesota, and Ontario. After that expedition, the

British Broadcasting Corporation descended upon Bill's lab to film a series on the origin of life. That warmed Bill up for talks at the Origin of Life Conference in Mainz, Germany, the Botanical Society meetings in North Dakota, and an international symposium on fossil algae in Colorado, all held this summer.

Bill has been exempted from teaching for five years in order to oversee the Division of Honors of the College of Letters and Science. He will try to improve its recruitment and standards, especially for the most gifted students, and to initiate new programs designed to improve and enrich the undergraduate educational experience at UCLA.

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Gerald Schubert, Ph.D., University of California, Berkeley; Professor of Geophysics and Planetary Physics.

From September 1982 to June 1983 Jerry was on sabbatical leave at The Hebrew University of Jerusalem in Israel. With colleagues there, he deduced the mantle's viscosity from the opening of the Dead Sea Rift. He is and will continue to be an editor for the *Journal of Geophysical Research* until 1986. One perquisite of this sabbatical was a family trip to Egypt for New Year's Eve. Will he enter a second career as a shuttle diplomat? An editor of *JGR* would surely qualify.

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Ronald L. Shreve, Ph.D., California Institute of Technology; Professor of Geology and Geophysics.

Ron is still teaching 111A, "Elements of Field Geology." The course was moved to Winter Quarter this year, which turned out to be one of the wettest on record. Despite the fact that, as he optimistically put it to the class, the Rainbow Basin area is a desert

because "it never rains there," they were treated to a spectacular display of erosion and sediment transport the first weekend (and of the remarkable slipperiness of wet bentonite clays the next). They gave him an F in weather forecasting.

He has also been working on several research projects. One is a field and theoretical study of what governs the form, composition, and structure of large eskers and what they tell about the former ice sheets beneath which they formed, such as that the ice covering Maine about 12,700 years ago was about half as thick as generally believed. Another project, which he is working on with Mark Cloos, a UCLA Ph.D. now at the University of Texas, is a theoretical calculation of sediment subduction and mélange formation. The calculation gives, among other things, the conditions under which a mélange complex will form and the depth from which the exotic blocks (the "knockers") in it will come. A third project, which is the subject of graduate student Tom Drake's doctoral research, is an experimental and theoretical investigation of grain flow, the flow of bulk granular materials in which effects of the interstitial fluid are negligible. This project is being done with Peter Hall, a nuclear physicist at Caltech, who is doing theoretical calculations and computer modeling. Although crucial quantitative tests remain undone, the results so far support their modified kinetic theory on the dynamics of grain flow.

Ron has been doing the usual review of journal manuscripts and grant proposals and serving on committees, the most important being the Academic Senate Committee on Educational Policy. Another interesting task has been his service for the last five years on the jury to select the California Scientist of the Year. The jury generally consists

of five or six leading academic scientists and one or two industrial ones drawn from all areas of science and mathematics (but mainly from physics, chemistry, and molecular and medical biology). The award carries with it a \$5000 prize and is given for a clearly identifiable important scientific advance made within the last five years by a California scientist. Ron observes that the winners generally recognized an important problem early and then stayed with it for many years.

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Gerald Stummer, B.A., University of Luetzkendorf; Lecturer in Geology; Spectroscopist.

Gerry has almost completed the XRF analysis of twelve samples received from the USGS and Association of Exploration Geochemists in Denver, Colorado. When the preferred values are finally established, sample portions will be sent to universities as primary standards.

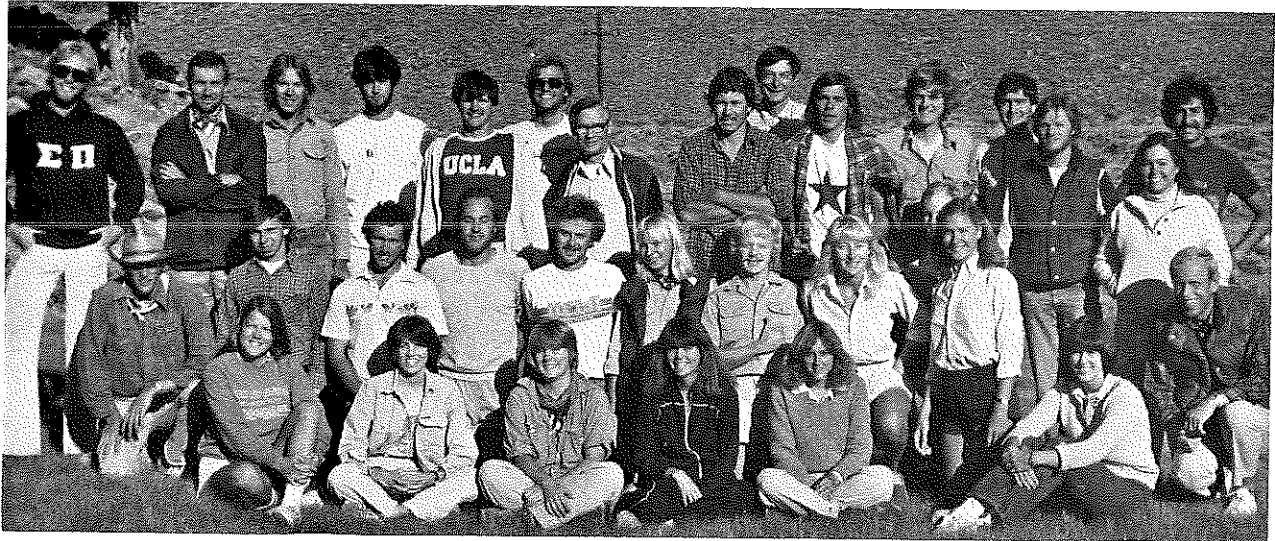
As usual, Gerry offered "Advanced Techniques in Geological Research" and lectured on XRF spectrometry in Chemistry 184. Postdocs and students in the E&SS sedimentology class made use of Gerry's skill in spectrometry and X-ray diffraction.

Gerry now has vested interest in one UCLA student: his daughter, Cynthia, can occasionally be seen wandering about the halls in Geology. She began her junior year in biology here in the Fall of 1982. After her B.S. she has her eye on oceanography.

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Takeo Susuki, D.Sc., Tohoku University; Lecturer in Geology; Senior Museum Scientist.

Takeo helped any members of the Department plagued by photographic



Summer Field 1982

New Degrees

SEPTEMBER 1981

Bachelor of Science

Christine Louise Bathker
 Kelly K. Busse
 Mark David Feldman
 Janet Lee Hirsch
 Glenn Leslie Locke
 Henry Bard Wevich
 Henry Kwok Hin Wong

Master of Science

Marvin M. Katz

"Geology and Geochemistry of the Southern Part of the Cima Volcanic Field" (Professor Boettcher).

Doctor of Philosophy

Mark Peter Cloos

"Studies in Franciscan Geology. Part 1: The Origin of the Central Mélange Belt. Part 2: Metamorphism and Deformation of the Shale Matrix of the Mélanges. Part 3: Controls and Mechanisms for Dewatering Subducted Sediments" (Professor Ernst).

Richard P. Ditteon

"Daily Temperature Variations on Mars" (Professors Newman and H. Kieffer).

Allen Glazner

"Cenozoic Evolution of the Mojave Block and Adjacent Areas" (Professor Boettcher).

Kenneth Norman Kettenring, Jr.

"The Trace Metal Stratigraphy and Recent Sedimentary History of Anthropogenic Particulates on the San Pedro Shelf, California" (Professor Reed).

Carl Victor Mendelson

"Studies in Micropaleontology: Proterozoic Microfossils, Ordovician Microphytoplankton, and Recent Agglutinated Foraminifera" (Professor Al Loeblich).

Alison Ord

"Flow Stresses from Microstructures of Mylonitic Rocks" (Professor Christie).

Glen Robert Stewart

"A Gravitational Kinetic Theory for Planetesimals" (Professor Kaula).

JUNE 1982

Bachelor of Science

Paul James Elliott
 Andrew Irvin James
 David Keyhyun Kim
 Ian Whitcombe Moxon
 Thomas Nakaki
 Erich Charles Parker
 Sandra Jo Redfearn
 Steven Michael Richardson
 Barry Martin Temple
 Jeffrey Gregg Zukin

Masters of Science**Steven Grant Fritts**

"Suitability of Landsat Multispectral Scanner and Return Beam Vidicon Stereo Imagery for Reconnaissance Engineering Geologic Mapping" (Professor Nelson).

Boyd Steven Getz

"Benthic Foraminiferal Biostratigraphy and Paleoecology of the Lower Luisian Leisure World Locality, Orange County, California" (Professor H. Loeblich).

Richard Mark Kettler

"Radioactive Mineralization in the Conglomerates and Pyritic Schists of the Kingston Peak Formation, Panamint Mountains, California" (Professor Carlisle).

William Joseph Pickthorn

"Stable Isotope and Fluid Inclusion Study of the Port Valdez Gold District, Southern Alaska" (Professor Watson).

Daniel B. Rosenblatt (by comprehensive examination).

David Andrew Weintraub (by comprehensive examination).

David Richard Williams (by comprehensive examination).

Daniel Winterhalter (by comprehensive examination).

Doctor of Philosophy**Richard Charles Elphic**

"A Study of Magnetic Flux Ropes in the Venus Ionosphere" (Professor McPherron).

SEPTEMBER 1982

Bachelor of Science

Christopher Ray Garrity
 David Emmanuel Harnish
 William Wesley Hildreth
 Christopher W. Hollister
 John Henry Hoobs
 Daniel Joshua Malvin
 Rani Hathaway Pettis
 Charles Toral Roberts
 Robert William Smith
 Peter Gerhard Tilke

Master of Science**Lisa Fellows Armstong**

"Metamorphic Mineral Paragenesis in Mesozoic and Paleogene Rocks, Southern East-West Cross-Island Highway, Taiwan" (Professor Ernst).

Doctor of Philosophy

Kevin Brian Quest

"Tearing at the Dayside Magneto-
pause" (Professors Coroniti and
Kivelson).

Wayne Anthony Zeck

"Strain in a Pair of Multilayered
En Echelon Folds" (Professor
Oertel).

Doctor of Philosophy

Gregory William Kallemeyn

"Elemental Fractionations Among
Carbonaceous Chondrites: Implica-
tions for Their Classification and
Nebular Formation" (Professor
Wasson).

DECEMBER 1982Bachelor of Science

Vincent John Carnegie
Teresa Marie Conway
Scot Paul Farquhar
Steve Craig Freeman
Lawrence Robert Greene
Andrew Edward Seutter III
Paul Roberts Sones

Master of Science

Patricia Anne Breslin

"Geology and Geochemistry of a
Young Cinder Cone in the Cima
Volcanic Field, Easter Mojave
Desert, California" (Professor
Boettcher).

Larry Craig Knauer

"Geology of the Emerson Lake
Quadrangle, San Bernardino
County, California" (Professor
Watson).

Li-yu Sung (by comprehensive examina-
tion).

MARCH 1983Bachelor of Science

Anna Valetta Buising
Virginia Hathleen Hamer
Brien Andrew Laird
David L. Parmelee, Jr.

Master of Science

Chang Chen

"Structural Comparison Between
the Santa Monica and the Santa
Ana Mountains, Southern
California: A Strain Evaluation
Approach" (Professor Oertel).

Doctor of Philosophy

Masato Nagata

"Bifurcations in Nonlinear Problems
of Hydrodynamic Instability of
Plane Parallel Shear Flows" (Pro-
fessor Busse).

JUNE 1983Bachelor of Science

Mindy Fox
Dieter Karl Letsch
Sean O'Meara McGoey
James Allen Noblet
Frances Raiken
Leslie Anne Sadler
Susan Elizabeth Smith

DECEMBER 1981Bachelor of Science

Philip Anthony Buchiarelli
Michael Bond Childs
Katrin Hafner

Master of Science

Ching-Chan Cheng (by comprehensive examination).

Evan T. Fishbein (by comprehensive examination).

Wayne Nicholas Sawka

"Petrology of the Tinemaha Granodiorite" (Professor Ernst).

Doctor of Philosophy

Philip Russel Christensen

"The Nature of the Martian Surface as Derived from Thermophysical Properties" (Professors Shreve and H. Kieffer).

Henry Ira Halpern

"An Investigation of Mineral-Kerogen Interactions and Their Relation to Petroleum Genesis" (Professor Kaplan).

David Thomas Sandwell

"Thermal Isostasy: Spreading Ridges, Fracture Zones, and Thermal Swells" (Professor Schubert).

MARCH 1982Bachelor of Science

Douglas Litz Hill
Ellen Sue Unher

Master of Science

Edward Warner Bolton (by comprehensive examination).

Chun Chiu Or (by comprehensive examination).

Steven Carl Swanson

"Sedimentology and Provenance of the South Park Member of the Kingston Peak Formation, Panamint Range, California" (Professor Carlisle).

Doctor of Philosophy

Robert Paul Eganhouse, Jr.

"Organic Matter in Municipal Wastes and Storm Runoff: Characterization and Budget of the Coastal Waters of Southern California" (Professor Kaplan).

Leonard Neal Ford, Jr.

"Palynology of the Grayson Formation (Lower Cenomanian) of Texas, U.S.A." (Professor H. Loeblich).

Albert Victor Nyberg, Jr.

"Contributions to Micropaleontology: Proterozoic Stromatolitic Chert and Shale-Facies Microfossil Assemblages from the Western United States and the Soviet Union: Morphology and Relationships of the Cretaceous Foraminifer *Colomia* Cushman and Bermudez" (Professor Schopf).

James Arthur Slavin

"Bow Shock Studies of Mercury, Venus, Earth, and Mars with Applications to the Solar-Planetary Interaction Problem" (Professor Holzer).

Master of Science**Susan Molly Green**

"Seismotectonic Study of the San Andreas, Mission Creek, and Banning Fault Systems" (Professors Ernst and Jackson).

Clare Philomena Marshall

"Cation Arrangement in Iron-Zinc-Chromium Spinel Oxides" (Professor Dollase).

Doctor of Philosophy**Garland Langhorne Farmer**

"The Origin of Mesozoic and Tertiary Granite in the Western U.S. and Implications for Pre-Mesozoic Crustal Structure" (Professor DePaolo).

Jeffrey N. Grossman

"A Chemical and Petrographic Study of Chondrules from the Chainpur (LL3.4) and Semarkova (LL3.0) Chondrites" (Professor Wasson).

Frank Thomas Kyte

"Analyses of Extraterrestrial Materials in Terrestrial Sediments" (Professor Wasson).

A WORD FROM THE UNDERGRADUATES
 By Leslie A. Sadler, ESSSO President

The undergrads are not lost in the shuffle in the UCLA Department of Earth and Space Sciences. The undergraduate class is a very significant part of the Department's success. There is a positive interaction between faculty, grad students, and undergrads alike; and this interaction provides a strong

basis for an environment in which students learn from each other as well as from faculty.

Undergraduate spirit livens up the Departmental activities. One of the activities this past year was the five-day Fall Field Trip to the western Sierra Nevada led by graduate students Clare and Brian Marshall, co-authors of the superb guidebook to the area. The Department supplied funds to help subsidize this trip.

The annual get-acquainted Fall Picnic, sponsored by the Earth and Space Sciences Student Organization (ESSSO), was a smashing success. One hundred and twenty-five faculty, staff, and students attended this hotdog, beer, and softball event at the Sunset Canyon Recreation Center.

Christmas season brought with it the Department Christmas party. This was the traditional night of entertainment and laughter as students portrayed their professors in many humorous skits. (Chairman Kaula stole the show when he appeared in a Santa Claus suit.)

Undergrads organized the Spring Field Trip this year, a three-day trip to the eastern Mojave Desert led by Dr. Boettcher. Several unsuccessful attempts were made to acquire partial funding for this trip from various campus resources. As a result, the trip was funded primarily by the participants, with some minor assistance from the Department and ESSSO funds.

A most important day for students this year was Career's Day. Undergrads and grads made use of the excellent opportunity to get acquainted with people in industry, to hear about the current direction of industry, and to prepare for a career.

One activity that is never missed in the Department each year is the traditional Undergrad vs. Grad Softball Game. Unfortunately, it was a little too traditional, for again the graduate team beat the undergraduate team. Who was at the pitcher's mound?? None other than Dr. Clem Nelson--whom did you expect?

Perhaps the most joyous activity in the Department is the annual Graduation Brunch. This year over a hundred guests joined the graduating class to celebrate. As in previous years, the Brunch was organized and put on by the undergraduate students who had earned their degrees throughout the year.

Undergrads bring fresh and new ideas to the Department. This year a Department Logo Contest was held (with input from faculty, staff, students, and alumni), and the winner was undergraduate Pat Gates. Shirts imprinted with the new logo will soon be available from ESSSO.

The perpetual existence of the famous *Weekly Intrusion* is also due to the combined efforts of the Undergraduate class. It may only materialize twice a month, but it nevertheless maintains its image.

Yes, indeed, the undergrads are visible in the Earth and Space Sciences Department. However, rumor has it that thirty-five new graduate students will be stalking the halls next year. Look out undergrads!



NEWS OF E&SS GRADUATE STUDENTS

By A. Edward Morelan
ESSSO President

Graduate student life at the UCLA Department of Earth and Space Sciences can be compared to a juggling act. While expected to maintain excellence in their classes, graduate students must also pursue their master's or doctoral research topics. A typical third tenpin of the juggling act is gainful employment—a teaching or research assistantship or some other support.*

This picture of post-graduate education allows little room for extracurricular activities, but grad students find the time to organize and participate in various departmental activities. Coordinating departmental field trips, orchestrating the annual Christmas party and quarterly picnics, and participating in intramural sports are a few of these activities.

The upcoming academic year promises continuing excellence in the Thursday afternoon lecture series. Organized by a panel of graduate students, weekly one-hour lectures are delivered by individuals at the forefront of geoscience research. The panel for the upcoming year will be chaired by Gilles Bussod in conjunction with Evan Fishbein, Jeffrey Johnson, David Weintraub, and David Shirley.

* Editor's note: We asked Spring Verity, departmental Counselor, for some numbers to indicate what support our graduate students can expect. We have 114 students and a total fellowship allocation of \$39,000 from the Graduate Division. There are also nine tuition waivers and 15 TA-ships available. Reg fees are currently \$471 per quarter; out-of-state students pay an additional \$1120 per quarter in nonresident tuition. (Ten imported students therefore could easily use up our fellowships on their tuition alone.) In addition we have approximately 40 RA-ships to award. The hope is to award a financial package of one-quarter fellowship (\$2200) and two quarters TA-ship (about \$700/month, taxable) to 15 new and

The Department of Earth and Space Sciences also participates in the activities of the university-wide Graduate Student Association (GSA). Our departmental representatives for the coming year will be Lee Bargatze and Gilles Bussod. The GSA is partly funded by fees from the graduate students' registration, and a percentage of this assessment is available to each department to subsidize grad-student-related activities. A meeting open to all E&SS graduate students was held during the Spring Quarter this past year to determine how these should be used. The tentative decision was to distribute them to individual graduate students on the basis of financial need. Details of supply and demand for these funds should be resolved early in the 1983-84 academic year.

The Earth and Space Science Student Organization (ESSSO) promotes interaction between faculty members and all levels of the E&SS student body. This is accomplished via such activities as the departmental field trips and picnics. ESSSO is managed by a committee of two undergraduates and two graduate students; the committee for the 1983-84 academic year consists of undergraduates Jane Sutherland and Laurie Holbrook and graduates Ed Bolton and Simon Peacock. Funding for this organization comes from departmental support and sales of field trip guidebooks and departmental T-shirts and patches.

Although a large percentage of a graduate student's time is devoted to

academics, we nevertheless manage some fun together and with other members of the university community.



DEPARTMENTAL FIELD TRIPS

Announcing a special bargain for all those interested in geology, from the novice to the most expert, sand-encrusted veteran: The Department of Earth and Space Sciences and the Earth and Space Sciences Student Organization still have on sale guidebooks from departmental field trips. The sale price includes no van, however. Guidebooks available include:

No. 7. Aspects of the Geology Between Los Angeles and San Diego, Kent Colbath, Fall 1980.

No. 11. Guidebook to the Mojave Desert Region, Allen F. Glazner and Bruce J. Bilodeau with sections by Art Boettcher, Carl Jacobson, Larry Knauer, Bob Luth, Alison Ord, and Gary Strathearn.

No. 12. Guidebook to the Eastern Sierra Nevada, Owens Valley, White-Inyo Range, Clem Nelson with sections by Bruce Bilodeau, Erdem Idiz, Wayne Sawka, and Wayne Zeck.

No. 13. Geologic Guidebook to the Western Sierra Nevada, Brian D. and Clare P. Marshall.

about 20 continuing students, supplying a monthly salary of approximately \$700/month for 9 months to our best students. Some of the remaining students may receive partial support, some no support at all.

Not mentioning daily expenses such as food and transportation, students pay an average of \$700 per month for an apartment, most often shared with one or two other students. If this doesn't sound like slim pickings, consider that quite a few of the students are married and have families to support.

Steve Lipshie's popular work on the Long Valley - Mono Craters region (No. 5) is currently not available, even after a second printing. Interested parties should contact Steve in the Department to arrange reproduced copies.

Each guidebook describes the stops made in chronological order for trips of typically four to five days. Any intrepid geologist who starts from the E&SS loading dock with guidebook in hand and odometer in view will learn more about roads, geology, and history. Significant stops in one exemplary guidebook--Clem's--include: the Manzanar Relocation Camp, two antecedent streams in one precedent-setting view, and Wayne Zeck's thesis fold from the Poleta Folds. Highlights from the

guide to the Western Sierra Nevada (the Marshalls' Plan) range from descriptions of mines, historical sites, stratigraphy, economic and Cenozoic geology, to cartoons of tectonic history.

This last spring undergrads organized a three-day departmental trip to the eastern Mojave Desert led by Dr. Boettcher. Since no funding for this trip came from campus resources, participants paid for it with minor assistance from the Department and ESSSO funds. No guidebook was printed, depriving us of a state-of-the-Art publication.

Prices for guidebooks may vary but generally run around \$6.00 per copy. Those wishing to purchase them should write to the Department for more information.



A newly established tradition is the Graduation Brunch. This one, the fifth in the series, was held on June 19, 1983, in honor of students who graduated in Fall 1982, Winter 1983, Spring 1983, or who would graduate after summer field 1983. Brunch preceded University Commencement ceremonies, held at 3:00 p.m. that afternoon. Pictured are: 1. Scott Warner, 2. Linda Tandy, 3. Jeff Knott, 4. Kirk von Zupp, 5. Paul Sones, 6.

Scott Farquhar, 7. Steve Freeman, 8. Prof. John Christie, 9. Prof. Wayne Dollase, 10. Prof. Bill Kaula, 11. Frances Raiken, 12. Dieter Letsch, 13. Earl LaPensee, 14. Alex Schroeder, 15. Prof. Art Boettcher, 16. Jim Noblet, 17. Prof. Ian Kaplan, 18. Joy Chen, 19. Don Murphy, 20. Prof. Clem Nelson, 21. Ginny Hamer, 22. Prof. Ken Watson, 23. Leslie Sadler, 24. Anna Buising, 25. Mindy Fox, 26. Spring Verity, Departmental Counselor, and 27. Sue Smith.

Long before the grand party on April 29th, a small group including Ted Bear, Bill Kaula, Helen Loeblich, Joe Straus, and J. D. Traxler agreed that it was a fine idea, got together, and pulled more willing helpers into the fold. By the second meeting, Chuck Knox and Mindy Broffman from Letters and Science Alumni and Development had vowed financial and moral support. Joanie Perkal, from the College of Letters and Science Dean's Council, who fell for the Geosciences atmosphere years ago when her daughter Melissa was a student here, added funds and enthusiasm to the fray, donating the services of the nationally known music group, UCLA's own "Bearly Bluegrass." Ted volunteered to buy a round or two of drinks for every alum and friend who attended the party and threw coach Terry Donahue into the bargain as entertainment for football fanatics in that illustrious crowd. He also produced Bobby Dearborn, the best bar-b-que chef in town (Chancellor Young will use the services of no other), who brought a mountain of roast beef and fancy trimmings.

The Department ordered an elegant luncheon from the faculty center, labs and offices were thrown open for afternoon meanderings, and phase liquidus was beefed up with hors d'oeuvres and wine.



The invitees got into the spirit, contributing generously to help defray the cost of dinners for students, who turned out in droves (as might be expected for a \$3.00 roast beef dinner!). Some sent money even though they were not able to attend. Those who contributed to Alumni Day are:



The Contributors



R. S. Ballentyne
F. Barker
J. D. Barry
T. L. Bear
W. Bruner
A. Canut
T. Donlon
S. Dumas
M. Garcia
C. Gray
F. Hantsch
R. Horodyski
E. Hudson
D. D. Jackson
R. E. Jones
V. Jones (for Roy Copp)
I. R. Kaplan
W. M. Kaula
E. Kiessling
J. Kingsley
J. Kingston
P. Kistler
A. Loeblich
J. Maniskas
R. Meade
P. Merifield
W. Neill
C. A. Nelson
G. Oertel
L. Pleskot
N. Rousselot (unable to attend)
R. Saul
J. W. Schopf
R. Smart (unable to attend)
P. Snavely Jr.
H. H. Sullwold
J. D. Traxler
J. A. Treiman
R. Tucker (unable to attend)
J. Van Amringe
K. D. Watson



If picture is worth a thousand words, we offer the following pages to make the biggest and best Newsletter yet assembled. Because we were not positive which names go with which faces, the photos have been left uncaptioned, but the following guest list should help you identify long-lost friends. Alumni are marked with an (A) following their names, faculty with an (F), graduate students with a (GS), undergraduates (UG), and staff with an (S).

Those Present

- | | |
|---|---|
| <p>Gerard and Carol Abrams (A)
 Tom Adame (A)
 Flint Agee (A)
 Yaw N. Agyakwa & Family (GS)
 Lynn Andrews (UG)
 Ken Arnestad (A)
 Aza Azouni (S)
 R. S. Ballantyne (A)
 Lee Bargatze (GS)
 Francis J. Barker (A)
 Kitty Barrows (A)
 James Dale Barry (A)
 Ted Bear and Family (A)
 Rainer Berger (F)
 Cy Bird (A)
 Bonnie Bloeser-Cooper (A)
 Mr. & Mrs. Art Boettcher (F)
 Ed Bolton (GS)
 Mindy Broffman (S)
 Bill Bruner (A & F)
 Robert S. and Joanna Burns (A)
 William Ross Cabeen (A)
 A. Louis (Lou) Canut (A)
 Dwight L. Carey and family (A)
 Mr. & Mrs. Don Carlisle (A)
 Dick Carlsberg (A)
 Diane Clemens (UG)
 George Cleveland (A)
 Mr. & Mrs. Xenophon C. Colazas (A)
 Patricia Colville (A)
 Robert L. Cooney (A)
 Jack Cooper (A)
 Earl Cooper (A)</p> | <p>Stephen A. Cooperman (GS)
 Roy Copp (A!)
 Flint Cyre (A)
 Jon Dashkin (UG)
 Marie-Jose Deutsch (A)
 Brian S. Dicker (A)
 Marcelle Dicker (A)
 Mr. & Mrs. Wayne Dollase (F)
 Thomas W. DonLon (A)
 Paul Doose (A)
 Tom Drake (GS)
 Kay Dudek (A)
 Stevan Dumas (A)
 Mr. and Mrs. Jack G. Elam (A)
 Stan Eschner (A)
 Edward and Theresa Fall (A)
 Lang Farmer (A)
 Evan Fishbein (GS)
 Mindy Fox (UG)
 Toni Frank (S)
 Eugene Fritsche (A)
 Mike Garcia (A)
 Renee Gibson (S)
 Cliff Gray (A)
 Jeff Grossman (GS)
 Dave Grover (A)
 Clarence A. Hall (F)
 Virginia Hamer (A)
 Brooks Hanson (GS)
 Fred and Phyllis Hantsch (A)
 Robert F. Harodul
 Annette Henderson
 Glenn B. Hieshima (UG)
 Merton and Annlia Hill (A)
 Bob Hill (A)
 Robert J. Hindle (A)
 Laurie L. Holbrook (UG)
 Robert Hollingsworth (A)
 Bob Horodyski (A)
 Sarah How (S)
 Ed Hudson (A)
 Mr. & Mrs. Dave Jackson (F)
 Brad Johnson (A)
 Roberta Johnson (GS)
 Vicki & Bob Jones (S&F)
 Mr. & Mrs. Ian Kaplan (F)
 Mr. & Mrs. William Kaula (F)
 Dick Kettler (A)
 Ed Kiessling (A)
 John Kingsley (A)
 Jack Kingston (A)</p> |
|---|---|

- Phil Kistler (A)
Shinichi Kitada (A)
Julie Knaack (S)
Jeffrey Knott (UG)
Charles and Teresa Knox (S)
Susie Kraemer (A)
Frank Kyte (GS)
George Lapins (S)
Robert A. Larson (A)
Tim Latiolait (A)
Bill Leslie (UG)
Dieter Letsch (UG)
Steve Lipshie (GS)
Helen & Al Loeblich (F&F)
John S. Loofbourow, Jr. (A)
Sue Luera (S)
Lidia Lustig (A)
Mr. & Mrs. Bob Luth (GS)
Robert Macdonald (A)
James M., Agnes, & Peter Maniskas
(A)
Paul Mankewicz (A)
Mr. & Mrs. Albert Marshall (S)
Brian & Clare Marshall (GS)
Mitsuhiro Matsu'ura (S)
Ritsuko S. Matsu'ura (GS)
Karen McBride (UG)
Marlene McCauley (GS)
Kaye R. McCown (A)
Mr. & Mrs. Bob McPherron (F)
Robert Meade (A)
Mr. & Mrs. Paul Merifield (A&F)
Eugene D. (Don) Michael (A)
Ed Morelan (GS)
Donald Dean Murphy (A)
Don Musselwhite (G)
Mark and Susan Nahabedian (A)
Joe and Rodney Nahama (A)
Irving R. Neder (A)
Bill Neill (A)
Clem and Ruth Nelson (F)
Bruce Nelson (GS)
Lynne Newton (S)
R. S. Noble (A)
Paula Norris (GS)
Albert Nyberg (A)
Mr. Terry O'Donnell (S)
Gerhard Oertel (F)
Jim Padick (A)
Larry and Charlie Parmelee (A)
Bob Paul (A)
Simon Peacock (GS)
Joan and Melissa Perkal (A&S)
Larry Pleskot (A)
Joe Polovina (A)
Sam Robertson (A)
Veronique Robigou (GS)
Leonard Robin (A)
Mark Robinson (A)
Mr. & Mrs. John Rosenfeld (F)
Aristidis S. Roubanis (A)
Leslie Anne Sadler (UG)
LouElla & Dick Saul (A&S and A)
Mr. & Mrs. Bill Schopf (F)
Edward W. Scott (A)
Richard Scott (A)
Oralynn Self (UG)
David Shirley (GS)
Alex Shroeder (UG)
Richard Slade (A)
Ken Smith (A)
Susan Smith (UG)
Mr. and Mrs. Parke J. Snavely, Jr. (A)
Sorena Sorensen (GS)
Carol Starcevic (S)
Gary Strathearn (GS)
Joe Strauss (A)
Harold H. Sullwold (A)
Takeo Susuki (A,S&F)
Robert & Darlene Sweeney (A)
Steven S. Sznyter (A)
Elizabeth Thomas (A)
John Tompkins
J. D. Traxler (A)
Jerry & Nina Treiman (A)
John H. (Jack) Van Amringe (A)
Fred Vanderberg
Bruce Van Patten (A)
Spring Verity (S)
Kirk Von Zup (A)
Holly Clyde Wagner (A)
John Wasson (F)
Mr. & Mrs. Ken Watson (F)
David Weintraub (GS)
David Williams (GS)
Stuart Wolpert (S)
Glenmore Wong (A)
Robert I. Zweigler (A)

