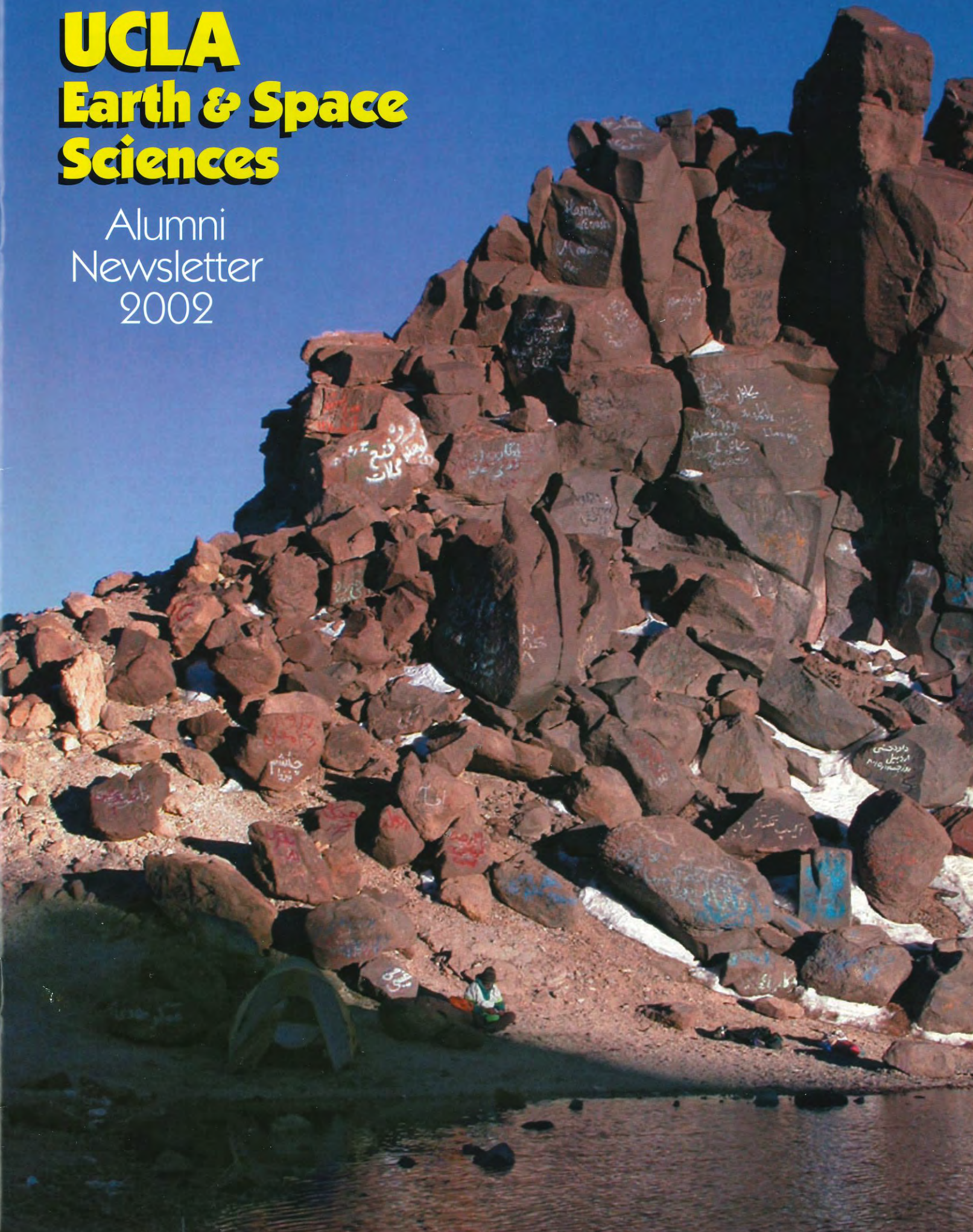


UCLA Earth & Space Sciences

Alumni
Newsletter
2002



Greetings from the Chair:

It has been an exciting year for the Department, mainly because of the new faculty who recently joined us. See pages 2 and 3 to learn something about them. The list of new faculty doesn't end with those featured in this newsletter. On July 1st, we will be joined by paleontologist **Mark Webster** and geochemist **Edwin Schauble**. The Department has indeed been fortunate to have added so many new faculty in such a short period of time. Major changes in what we teach and the research we do will accompany these new and energetic personalities, and it will be fascinating to see how all this plays out in the years ahead.



The faculty did extremely well this year in terms of awards and honors and significant accomplishments. Yours truly was elected to membership in the American Academy of Arts and Sciences and the National Academy of Sciences. I received the Hess Medal of the American Geophysical Union (AGU) and became President-elect of the Planetology Section of the AGU. **Chris Russell** received the COSPAR Space Science Award, and NASA selected his DAWN mission to the asteroids Ceres and Vesta. Chris will also receive the Fleming Medal from AGU at the 2003 Fall meeting. **Margaret Kivelson** became a Fellow of the American Physical Society. **John Wasson** became a Fellow of the European Association of Geochemistry and will receive the J. Lawrence Smith Medal at the annual meeting of the National Academy of Sciences in the Spring. **William Newman** became President-elect of the Division of Dynamical Astronomy of the American Astronomical Society. **Bruce Runnegar** is the new Director of NASA's Astrobiology Institute, and will spend the next few years mostly at his new office at the Ames Research Center in northern California. **Kevin McKeegan** was elected a Fellow of the Meteoritical Society, and had the Asteroid 5663 named McKeegan by the International Astronomical Union. **Gilles Peltzer** received a NASA Exceptional Achievement Medal. We welcomed back **Paul Davis** from a one-year sabbatical at Oxford University in England, where he had the distinguished title of Leverhulme Professor. At the fall GSA meeting in Denver, **Ray Ingersoll** completed his 4-year term as an officer of the Sedimentary Geology Division, including Chair in 2001.

Ray continues as Statewide Faculty Advisor to the California Science Project, whose goal is improving science education in the public schools. **Didier Sornette** was awarded the Risques-Les Echos Prize for most innovative paper to appear in those journals. Our new faculty are already adding to the luster of the Department. **Emily Brodsky** was awarded a 5-year NSF Career Grant. **Abby Kavner** and **Jon Aurnou** were successful in getting NSF funding to establish their laboratories. Congratulations to all!

Not all of the news was good. **Daniel Kivelson**, husband of Margy Kivelson and a distinguished Emeritus Professor of Chemistry at UCLA, passed away. The entire UCLA community paid tribute to him at a Memorial Service held at the Faculty Center—the outpouring of affection and esteem for Daniel was enormous. We all express our heartfelt sympathy to Margy and her family.

There are lots of things going on around the Department. Rooms are being renovated and new laboratories are being set up, as our new faculty move in and get their research underway. We are also upgrading the appearance of our halls and stairwells, something that will require time and patience. We are creating a new Remote Sensing Laboratory that Gilles Peltzer will use to provide state-of-the-art training for our students. By spring, we expect to dedicate Bill Kaula's old office as a lounge/reading room/conference room for members of ESS and IGPP to meet. Please come visit and join us with a coffee in this room.

We now have a new Department brochure that tells and shows very effectively what ESS is all about—we've enclosed a copy with this newsletter, and hope you will share it with any prospective students you may know.

This has also been a year of great challenges for the Department and the whole University of California family, as we begin to deal with the consequences of the State's enormous budget shortfall. We will manage to get through this academic year without drastic reductions, though we have had to absorb a decrease in the Department's budget and a decrease in support for our graduate students. Next year we will have to deal with more of the same, and it will not be easy. That is why I am asking all of you to consider increasing your level of support to the Department, or perhaps contributing for the first time. We could do so much more to enhance the experience of our students with additional resources to direct their way. We need fellowships to support our graduate students during the academic year, and funds to enable them to attend scientific meetings and carry out research during the summer. The list of our needs is long, as you are undoubtedly well aware. I'll conclude by offering my personal thanks to all our 2001-2002 donors whose contributions are greatly appreciated and properly acknowledged on page 8.

Best wishes to all,

Gerald Schubert
Professor and Chair



Astronaut John L. Phillips, pictured on the aft flight deck of the Space Shuttle Endeavour as it made its way toward the International Space Station in April of 2001.

John L. Phillips to be Next Distinguished Alumni Lecturer

We are extremely pleased to announce that we have received confirmation from NASA for astronaut **John L. Phillips** (MS '84, PhD '87) to be our 2003 UCLA Earth & Space Sciences Distinguished Alumni Lecturer on Thursday, April 24th. The title of John's lecture will be, "A Visit to the International Space Station." He plans to talk about his flight in 2001, what's going on now on the International Space Station, and what the future appears to hold.

John was selected as an astronaut by NASA in 1996, and made his first space flight on the Space Shuttle Endeavour (April 19 to May 1, 2001). During the 12-day, 187-orbit mission, the crew delivered and installed the Canadarm-2 Robotic Arm and delivered experiments and supplies aboard the Multi-Purpose Logistics Module Raffaello on its maiden flight. John served as the Ascent/Entry Flight Engineer, and was the intravehicular activity coordinator during two space walks. John currently serves as backup Flight Engineer for Expedition-7 and has been assigned as Flight Engineer on ISS Expedition-10, scheduled for launch in 2004.

This promises to be a very special and exciting occasion for us—we hope you will all take advantage of the opportunity to attend and renew old acquaintances, as well as meet our new (and old) faculty members. Be on the lookout for an invitation in the mail to tell you the particulars. If you'd like to respond sooner, please feel free to use the response envelope in the center of this newsletter, or email your response to barb@ess.ucla.edu.

Please remember to save the date of Thursday, April 24th! ☐

On the cover:

Yes, they have graffiti in Iran, too! This photo of the north shore of Sabalaan lake—a lake filling the summit crater of Sabalaan volcano (~4800 m)—was taken by graduate student Bernard Guest. For more photos and to learn a bit about Bernard's field experiences in Iran, see page 5.

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To contact us:

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Barbara Widawski

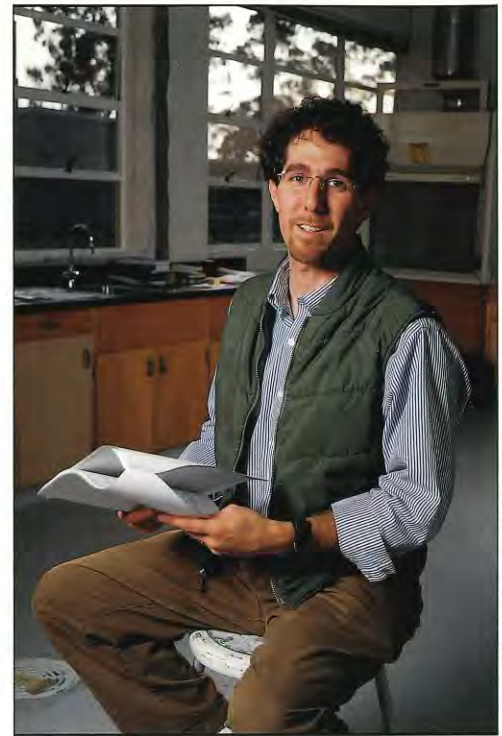
UCLA
Department of
Earth and Space Sciences

PO Box 951567
Los Angeles, CA 90095-1567

phone: (310) 825-1100
fax: (310) 825-2779
email: barb@ess.ucla.edu
http: [//www.ess.ucla.edu](http://www.ess.ucla.edu)

New E&SS Faculty

Jonathan Aurnou (right) joined Earth & Space Sciences in August of 2002 as an Assistant Professor of Geophysics and Planetary Physics. After receiving his PhD from Johns Hopkins University in 1999, he became a NASA Postdoctoral Associate at the Carnegie Institution of Washington's Department of Terrestrial Magnetism. Jon combines laboratory and numerical experiments that shed light on the dynamical processes occurring within deep planetary interiors. On the modeling side, he has studied inner core rotational dynamics, zonal jet formation on the giant planets, and the effects of inner core size on planetary dynamo action. His experimental work includes studies of rotating magnetoconvection in liquid gallium and studies of rotating convection relevant to the Earth's core tangent cylinder. Jon is now developing a state-of-the-art experimental geophysical fluid dynamics laboratory here. The techniques of Doppler velocimetry and particle image velocimetry will be used, in addition to thermometry and magnetometry, to generate the highest resolution experimental convection data to date for interpreting observations of the deep Earth and the planets.



MARY ANN STUEHRMANN



MARY ANN STUEHRMANN

Emily Brodsky joined UCLA in February of 2002 as an Assistant Professor of Geophysics. Following her PhD at Caltech, she was an NSF Postdoctoral Fellow at the University of Oregon, then a Miller Fellow at UC Berkeley. Emily studies earthquakes and explosive volcanism using the tools of fluid mechanics. She has documented seismicity in Greece triggered by the Izmit earthquake, modeled a new mechanism of fault lubrication, and developed a method for determining mass ejection rates of explosive volcanoes from seismic data. Her current diverse projects include a study combining seismic and hydrologic data to elucidate mechanisms for distant seismic triggering and a study using seismic data to measure the basal friction of volcanic landslides. Plans for the immediate future include a collaboration with Los Alamos to model the formation of volcanic directed blasts and a collaboration with Leeds University, UK, to model the explosive source of the Soufriere Hills, Montserrat eruptions.

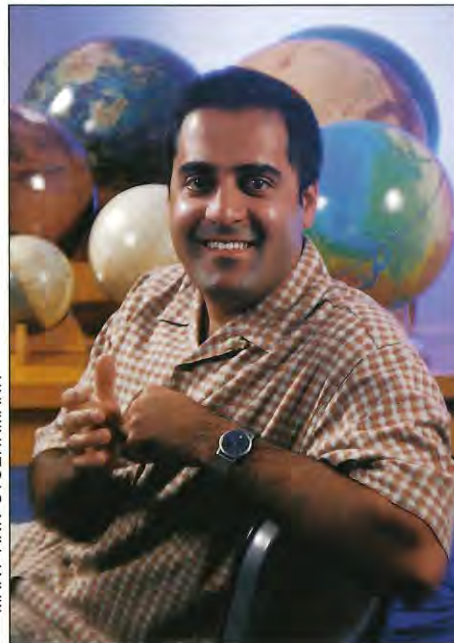


Brian Horton joined the Department in July of 2001 as an Assistant Professor of Geology and Geophysics. He received his PhD from the University of Arizona in 1998, and spent two years as a faculty member at Louisiana State University. Brian has worked on field-based projects concerning basin evolution and contractional deformation in the central Andes of Bolivia. This research has involved a combination of approaches, including chronostratigraphic methods, sediment provenance analyses, flexural modeling, and structural restorations. Brian's research focuses on the application of physical sedimentology, stratigraphy, and basin modeling to understanding large-scale erosion, transport, and deposition of sediment in modern and ancient orogenic settings. In particular, sedimentary basins associated with continental mountain building provide opportunities to extract the tectonic and climatic signatures on sedimentation and constrain the timing and style of tectonic deformation.



Abby Kavner joined the Department in the Fall of 2002. She received her PhD at UC Berkeley in 1997. She studies how the microscopic-scale structure of minerals influences their physical and chemical behavior, which, in turn, determines planetary scale processes such as mass transport and chemical evolution. Much of the research takes advantage of the diamond anvil cell, a laboratory device that offers access to high pressures (tens of thousands of atmospheres) and temperatures (room temperature to thousands of degrees) relevant to planetary interiors. Because diamonds are transparent, the behavior of rocks and minerals subjected to very high pressures and temperatures can be directly observed using a range of light sources. She focuses on a wide range of materials ranging from Earth mantle minerals to esoteric materials to complicated assemblages in her high pressure laboratory. Abby also does “mineral physics field work”—she travels to national synchrotron facilities, which supply an intense x-ray beam, which can be used to examine a variety of properties of materials inside the diamond cell, including phase stability, crystal structure, and mineral volume and how they change with pressure and temperature. When Abby is not in the lab, you can find her exploring the farmers’ markets of Los Angeles.

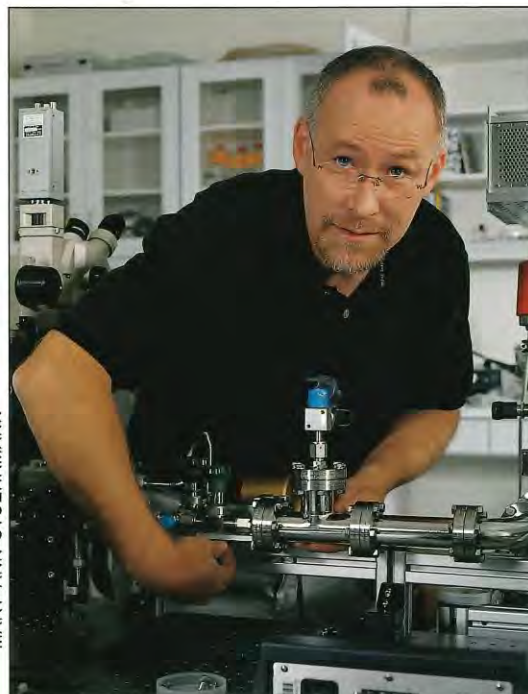
MARY ANN STUEHRMANN



Ashwin Vasavada earned his PhD from Caltech in 1998. He joined the Earth & Space Sciences faculty at UCLA in September of 2002 as the WW Rubey Faculty Fellow. He studies several planets, seeking to answer fundamental questions about their surfaces and atmospheres using data returned by spacecraft. When polar ices were first detected on Mercury and the Moon, Ashwin helped understand their distribution, age, and composition using numerical simulations. He has also analyzed Jupiter’s atmospheric dynamics, lightning, and aurora on images from NASA’s Galileo and Cassini spacecraft. He is also interested in the polar regions of Mars, where the geologic record may hold clues to Mars’ changing climate. In addition to studying the returned data, Ashwin has been involved in the planning and operation of several NASA spacecraft missions, including Galileo, Cassini, and the Mars Polar Lander. During the 2001-02 academic year, Ashwin was a

Congressional Science Fellow sponsored by the American Association for the Advancement of Science. He worked with Representative Vern Ehlers (MI), a PhD physicist and strong advocate for science. Ashwin tracked science issues for the Congressman, including the environment, energy, federal support of research, and science education. After a year in Washington, he’s ready to get back to hiking, backpacking, and photography in mountains that actually exceed 3,000 feet!

Ed Young received his PhD from USC in 1990. He joined ESS as a Professor of Cosmochemistry and Geochemistry in July of 2001, after being a Lecturer at Oxford University in the UK. He is interested in the early solar system rock-



MARY ANN STUEHRMANN

forming processes and terrestrial planet formation, asteroid hydrology as evidenced through studies of meteorites, development of new laser ablation techniques for measuring light element isotope ratios in rock materials, isotope fractionation processes in terrestrial and extraterrestrial systems, and thermodynamics and the evolution of metamorphic rocks. For these studies, he is developing new oxygen isotope and multiple collector inductively coupled plasma mass spectrometer labs in the Department. □

Distinguished Alumnus Charles Elachi

A good time was had by all at the 2002 UCLA Department of Earth and Space Sciences Distinguished Alumni Lecture, preceded by a reception with wine and tasty hors d'oeuvres on Thursday, April 25th. The lecture was presented by **Charles Elachi**, PhD, the Director of Jet Propulsion Laboratory (JPL) and a Caltech vice president since May 2001. Elachi had been a very distinguished academician and practical scientist well

before receiving his master's degree in geology from UCLA in 1983, having received his BS in physics from the University of Grenoble, France, and the Diploma Ing. in engineering from the Polytechnic Institute, Grenoble, both in 1968, a master's and PhD in electrical engineering from Caltech in 1969 and 1971, and an MBA from USC in 1978, not to mention having served in a variety of research and management positions at JPL since 1971.

When Earth & Space Sciences Chair Jerry Schubert asked why he would enter UCLA's program in geology at that point in his career, the answer made perfect sense—he was about to become the leader of the radar remote sensing team at JPL, and he wanted to have enough knowledge about geology to be able to interpret the images they would receive. Elachi served as principal investigator on numerous NASA research and development studies and flight projects. He is currently the team leader of the Cassini Titan Radar experiment and a co-investigator on the Rosetta Comet Nucleus Sounder experiment. He is the author of more than 200 publications on space and planetary exploration, Earth observation from space, active microwave remote sensing, wave propagation and scattering, electromagnetic theory, lasers, and integrated optics, holding several patents in those fields. He has authored three textbooks on remote sensing and has taught "The Physics of Remote Sensing" at Caltech since 1982. He is perhaps best known for his role in the development of a series of imaging radar systems for the Space Shuttle, which allowed scientists to see through clouds that blanket the Earth. These systems even penetrate the



Charles Elachi was presented a certificate of appreciation by ESS Chair, Jerry Schubert

top layer of soil in arid regions, revealing hints of what lies below the surface.

Elachi's lecture, "*Space and Earth Exploration, 2010: Opportunities and Challenges*," proved to be very stimulating, as prom-

ised. He started with some historical highlights of the last forty years of space exploration done by JPL and NASA—exploration has covered everything from asteroids, comets, the moon, other planetary satellites, terrestrial planets, and giant planets. Some of the highlights included were Army missiles of the 1950s, Explorer I (1958), Mariner 2 (1962), the Surveyors of the 1960s, the Hubble telescope camera, the Mars Pathfinder of 1997, and global topography done as of 2000. Did you know that there are fourteen JPL spacecraft now (as of the lecture in April) operating? They are: two Voyagers on an interstellar mission; Ulysses, Genesis, and ACRIMSAT studying the sun; Galileo and Cassini studying Jupiter and Saturn; Stardust returning comet dust; Mars Global Surveyor and Mars Odyssey in orbit around Mars, and Topex/Poseidon, Quikscat, Jason 1, and GRACE monitoring Earth! Dr. Elachi pointed out that many of our ESS faculty and students are involved in several of the missions, including Galileo, Cassini, Dawn, and the Mars missions.

A highlight of the presentation was an animated video that Dr. Elachi narrated showing how the next Mars lander might be sent to Mars, land there safely, and then travel over the terrain and explore the area. He spoke of many developments in technology, and discussed the ways in which space program technology infuses industry with new opportunities. He also included a warning about the next El Niño, which we have recently experienced. Many thanks to Dr. Charles Elachi for a lecture that proved to be highly entertaining and enlightening, delivered in an energetic and dynamic style. □

Flowers bloom in the seemingly barren volcanic fields of Sabalaan volcano (4800 m) in northwest Iran



Self portrait after two weeks in the field, high valley north of Kuh-e-Kabar (4100 m)

Castle Dogtar (Daughter) overlooking east Taleghan Valley, and just to the northeast of Kuh-e-Kabar (4100 m)



Bernard and his field guide Mohsen Mashayeki with the clouds of the Caspian Marine layer filling Dalir Valley in the background



Student Profile— **Bernard Guest**

Bernard Guest, a structural geology PhD student, took these photos in the Alborz Mountains of northern Iran, while doing field work there. Bernard was introduced to the area by his advisor, Gary Axen, then continued on his own for a total of about nine months. Bernard has lots of stories to tell about his adventures, including the following:

We were off to the bustling mountain deh (“deh” means “village”) of Kowchireh, but the only flat spot in the village was in the grave yard! So we pitched our camp under an ancient gnarled walnut tree over some rather primitive graves. I was in the process of digging out Mohsen’s tent site when I pried up a large flat stone . . . large flat stones are used to build the graves! Needless to say, I decided to leave this stone in place . . . Mohsen said that he would deal with the lump!



Heading out of their high camp, north of Kuh-e-Kabar via mule (mules carry the gear, not the humans)



Class of 2002— Bottom row: Prof. Ray Ingersoll, Hannah Gabriel, Jennifer Zamora, Michelle Wickers, Lynette Burnside, Kristen Madsen, Erin Hayes, Nadia Yglecias, Bridget Walsh, Roopl Chauhan, Yufang Rong. Row 2: Prof. Emily Brodsky, Kane Hayashi, Matt Affolter, Andy Nguyen, Mason Chuang, Tiffany Blackwell, Kristin Ebert, Sheila Morrissey, Chris Dueñas, Dianne Taylor, Prof. Heidi Houston. Row 3: Bryan Murray, Student Affairs Officer Lauri Holbrook, Kelly Shiozaki, Mary Kairouz, Lorraine Leon, Eric Mittelstaedt, Teresa Lassak, Rebecca Perbroth, Reinis Berzins, Pat Lam, Fei Xu. Row 4: Michael Fleishman, Prof. John Wasson, Prof. Bruce Rummegar, Prof. Jerry Schubert, Prof. Mark Moldwin, Prof. John Vidale, Prof. Wayne Dollase, Prof. Kevin McKeegan, Prof. Peter Bird, Zhen Liu, Prof. John Rosenfeld.

Honors and Awards—2002

John & Frances Handin Scholarship

Presented to undergraduates for scholastic excellence, this scholarship was endowed by Department alumnus John W. Handin (BA '42, MA '48, PhD '49) and his wife, Frances.

Dianne Taylor

Eugene Waggoner Scholarship

Awarded to undergraduates for academic excellence, this scholarship honors the memory of Department alumnus Eugene B. Waggoner (BA '38, MA '39).

Lynette Burnside

Bryan Murray

Walter Harris Summer Field Award

Conferred for scholastic excellence to summer field students, this award honors the memory of Department alumnus Walter Stephan Harris (MA '58).

Keiichiro Hayashi

Sheila Morrissey

Clem Nelson Summer Field Award

Conferred for scholastic excellence to summer field students, this award is supported by Professor Emeritus Clem Nelson's former field students and associates.

Kristen Madsen

Roopl Chauhan

2001-2002 Earth & Space Sciences Degrees

Doctor of Philosophy

- Janet Carole Green *Testing Relativistic Electron Acceleration Mechanisms* (Professor Kivelson)
Geophysics & Space Physics
- George Mitchell Hathaway *Geology of the Inconolable Range, East-Central Sierra Nevada, Kings Canyon National Park and John Muir Wilderness, California: Magmatic Emplacement and the Dynamic Evolution of Composite Intrusions* (Professor Reed) *Geology*
- Garrett B. Hazelton *Evolution of Detachment-Related Fault Rocks in the Footwalls of the Whipple and Chemehuevi Mountains, Southeastern California* (Professor Axen) *Geology*
- Tamitha Lynne Mulligan *Interplanetary Coronal Mass Ejections and their Solar Origins* (Professor Russell)
Geophysics & Space Physics
- Asmin Vijay Pathare *The Morphological Evolution of the Martian Polar Layered Deposits* (Professor Paige)
Geophysics & Space Physics
- Steve Persh *Seismic Investigation of Core-mantle Boundary Structure and Source Properties of Deep-focus Earthquakes* (Professor Houston) *Geophysics & Space Physics*
- Yufang Rong *Evaluation of Earthquake Potential in China* (Professor Jackson) *Geophysics & Space Physics*

Master of Science

- Reinis Berzins *The Stratigraphic and Volcano-Sedimentary Record of Damavand Volcano, Northern Iran*
(Professor Davidson) *Geology*
- James Galen Fowler (By Comprehensive Examination) *Geophysics & Space Physics*
- Dana Nicole Kovaric *Landforms of Noctis Labyrinthus, Mars* (Professor Paige) *Geology*
- Patrick Sheung Lam *Geology, Geochronology, and Thermochronology of the Alam Kuh Area, Central Alborz Mountains, Northern Iran* (Professor Axen) *Geology*
- Michael Andrew Mischna (By Comprehensive Examination) *Geophysics & Space Physics*
- Rebecca L. Perlroth *An Investigation of Crystal Transfer between Melts* (Professor Davidson) *Geology*
- Matthew Sean Spurlin *Structural Evolution of the Nangqian-Yushu Fold-Thrust Belt, East-Central Tibet: Implications for Paleocene-Eocene Continental Shortening during Indo-Asian Collision* (Professor Yin) *Geology*
- Robert Troy (By Comprehensive Examination) *Geophysics & Space Physics*
- Jean-Pierre Williams (By Comprehensive Examination) *Geophysics & Space Physics*
- Zhenjiang Yu (By Comprehensive Examination) *Geophysics & Space Physics*

Bachelor of Arts

- Tiffany Ann Blackwell *Earth Sciences*
- Mason Chuang *Earth Sciences*
- Nicole Lynn Stull *Earth Sciences*

Bachelor of Science

- | | | | |
|--------------------------|---------------------------------------|---------------------------|--|
| Matthew Dale Affolter | <i>Geology</i> | Kristen Elise Madsen | <i>Geology</i> |
| Lynette Marie Burnside | <i>Geology</i> | Eric Lee Mittelstaedt | <i>Astrophysics/Geophysics & Space Physics</i> |
| Jacqueline Cote | <i>Geology</i> | Sheila Kathleen Morrissey | <i>Geology</i> |
| Christopher Danny Dueñas | <i>Geology</i> | An Wong Nguyen | <i>Engineering Geology</i> |
| Kristin Ann Ebert | <i>Geology</i> | Jerry Morgan Pflueger | <i>Engineering Geology</i> |
| Michael Ross Fleishman | <i>Geophysics & Space Physics</i> | Bruce Anthony Piscitello | <i>Geography/Geology</i> |
| Hannah Vera Gabriel | <i>Engineering Geology</i> | Kelly Michi Shiozaki | <i>Geology</i> |
| Keiichiro "Kane" Hayashi | <i>Geology</i> | Jocelyn Puatu Szymanski | <i>Geology</i> |
| Erin Marie Hayes | <i>Biology/Geology</i> | Bridget June Walsh | <i>Anthropology/Geology</i> |
| Mary Elizabeth Kairouz | <i>Geology</i> | Michelle Allison Wickers | <i>Engineering Geology</i> |
| Teresa Mae Lassak | <i>Geology</i> | Jennifer Marie Zamora | <i>Engineering Geology</i> |
| Lorraine Annette Leon | <i>Geology</i> | | |

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at 310-794-9005.*

Alumni News

1938

Robert H. Paschall, BA, took some time out from working on his Owens Valley fault manuscript to go on a scenic cruise to Norway on the MS Narvik, “a combination Freightliner tractor-trailer; Greyhound bus, and passenger ship.” It went up the coast around North Cape, making port at 34 towns—he saw about 20 of them, as he couldn’t stay awake 24 hours a day! He also enjoyed Oslo and Bergen; he visited the University in Oslo, where he was given a personal tour of the rocks and minerals in the university’s museum by geology professor Jørn Burum—a nice experience that turned out to be the geologic highlight of his trip.

Wayne Wisehart, BA, is retired—he celebrated his 88th birthday on August 17th.

1939

Joseph W. Kean, Jr., BA, is retired and “still a survivor,” at age 86, with 5 sons, 4 daughters, and 14 grandchildren.

Harold Sullwold, BA (MA ‘40, PhD ‘59), is retired from a career in oil and gas exploration, and now works on his stance and backswing—also putts and sand wedge! Harold recently wrote a letter to the Santa Barbara Press News commending them on publishing a nice beach erosion article by **Bob Norris** (BA ‘43, MA ‘49, PhD ‘51), who is a professor emeritus from UC Santa Barbara.

1941

Robert D. Johnston, BA (MA, meteorology), is a retired Colonel in the US Air Force, having served as a meteorologi-

cal officer. He lost his dear wife Bonnee (Willits) Johnston on April 7, 2001—she graduated as an English major from UCLA in 1941.

1942

Donald H. Kupfer, MA, (PhD, Yale University), is now retired. He and his wife celebrated their fiftieth wedding anniversary on June 7, 2002.

1947

Martha Gallagher Zabel, BA, worked for oil companies in Los Angeles until 1961, when she married Patrick Zabel and changed to the career of wife and mother. They moved their four daughters first to Arizona and then to south Texas, where Pat took a job with Southwest Research Institute in San Antonio. They settled

on a homesite of 89 acres near the city of Devine (then population 3,000) and learned a lot about living in the country; 4 daughters = 4 horses. The daughters grew up and left home, but the first two horses are still there. Martha notes that in an old issue of the alumni newsletter, there was an item about **Holly Wagner** (BA ‘41, MA ‘47) receiving his PhD in England. The article referred to Holly throughout as “she” or “her,” which Martha noticed particularly, because she was somewhat of an oddity then for being the only female geology major during the years 1945 to her graduation in 1947, at which time she was the fifth female to graduate in geology from UCLA. In spite of the gender ambiguity of his name, Holly was definitely not a “she”

or “her.” Martha suggests that a look at department records will probably show a complete absence of male graduates after 1940 until 1946 or 1947, because nearly all men were in military service during World War II. She’s noticed that each year’s class of graduates is now largely women, and employment opportunities are almost unlimited. Two of her



Martha and Patrick Zabel

daughters are military officers (Majors), one is a manager at a computer-chip company, and another worked for years tending racehorses, before deciding to return home to care for the old folks (Martha and Pat, shown here), and become a science teacher.

1950

Ed Kiessling, BA (MA ‘58), is retired from the California Geologic Survey. He so much enjoyed having an Italian exchange student stay last summer, that he repeated the experience this summer.

Arthur Mirsky, BA (MS, University of Arizona; PhD, Ohio State University), is a professor emeritus of geology at Indiana University-Purdue University Indianapolis. He

was awarded the Professional Geologists of Indiana 2002 Lifetime Achievement Award. The citation says in part: “Beginning in 1967 . . . you initiated the teaching of Geology at a then very small regional campus of Indiana University. Using a vision of what could be, and with many hurdles to overcome, you constructed a full-fledged Department of

Geology, which . . . has now educated tens of thousands of students, and graduated hundreds of geology majors. Of the geology majors, some have gone on to obtain advanced degrees in geology and pursued college-level teaching and research, while many others have successfully entered the ranks of industry, government, or consulting. And at the same time, you continued your research.

. . . You have left an indelible mark on Indiana Geology.”

Hy Seiden, BA (MS ‘72), is “ninety-nine percent retired” as a private consulting petroleum geologist.

1951

Frank Dickson, BA (BS, UCLA chemistry ‘54), PhD ‘56, made Phi Beta Kappa at UCLA, and earned the first geochemical PhD from the Department. He’s had a distinguished academic career, having been chair of Geology departments at both UC Riverside and Stanford, and won Fulbright and Guggenheim awards. Frank is now a professor emeritus at the University of Nevada-Reno Mackey School of Mines. Though retired, he is still going strong, having recently fin-

ished a manuscript on Papoose Flat for the GSA Bulletin, joint with **Clem Nelson**. Frank sent us this photo, taken in August of 2002, when he and fellow alumni **Max Carman** (AB '48, PhD '54), **Ken Hsü** (PhD '54), and **Jerry Winterer** (PhD '54) got together, along with their wives, at Central Camp in the Sierra Nevadas.

1955

Marlene Shuford, BA, is retired as a petroleum/research geologist for the Richfield Oil Company. She took a cruise to Alaska this summer.

Eugene M. Wescott, BA, did a 2½-year stint working with the AEC in Denver and a semester at the Colorado School of Mines, after graduating UCLA. He then moved to the Geophysical Institute of the University of Alaska, where he earned his masters and PhD. After the PhD, Gene spent three years at NASA Goddard Space Flight Center in Greenbelt, Maryland doing barium release sounding rocket experiments to investigate the electrodynamics of auroras. He is now a professor emeritus of geophysics at the Geophysical Institute of the University of Alaska.

1958

Xen Colazas, BA, is a retired petroleum geologist. He now teaches and consults — and travels frequently to Greece.

1960

Roland Von Huene, PhD, received the Gustav Steinmann Medal for Achievement and Distinction in Earth Sciences at the Christian Albrechts University, Kiel, Germany in October of 2001. Roland spearheaded the investigation of subduction erosion and sediment subduction, starting during



Max Carman, Frank Dickson, Ken Hsü, and Jerry Winterer at Central Camp

his PhD study at UCLA, and continuing as the director of Geomar's Marine Geodynamics Division, where he had access to a research vessel, a super-computer, and a cadre of motivated and able colleagues and students.

1961

Jon Champeny, MA, retired from Exxon Exploration as VP Africa Middle East in 1993, and has been playing golf and working in local community organizations. He says he has done some good work, but the golf is still a challenge!

Allen W. Hatheway, AB (PhD, University of Arizona), has been awarded the Distinguished Practice Award in Engineering Geology by The Geological Society of America. He tells us that fellow alumnus, **Robert Larsen** (AB '74) received the Distinguished Service Award. Allen is a Fellow of the Society and has been a member for 39 years. He retired in 2000 as professor of geological engineering at the School of Mines & Metallurgy, University of Missouri-Rolla. He was also

named Honorary Member of the Association of Engineering Geologists, of which he was President in 1985, and is a Fellow of the American Society of Civil Engineers (Life Member). Allen and his wife Dina (MS, San Jose State University) split their time between Rolla, Missouri and Big Arm, Montana. Allen remains entirely active on the litigation circuit over former manufactured gas (coal tar) plants and various acts of God in the geologic realm. His gas works web site is at www.hatheway.net.

1963

Mary McNeil, MS, owns the Flamingo Press, and publishes updated editions of Earth sciences references.

1964

Edward Jestes, BA, performed at the age of 71 with a group of Taiko drummers on stage at the 12th Anniversary concert of the Sacramento Taiko Day. [If you've seen the Japanese art of Taiko drumming, you know this is a very demanding physical activity, requiring both strength and grace.]

1965

Carl J. Bowser, PhD, is an emeritus professor of geology and geophysics at the University of Wisconsin, Madison. He specializes in low temperature geochemistry, with studies on the geochemical evolution of natural waters in shallow groundwater and lake systems. Since retirement, he's done more photography, and is very active in the local photographic community (for example, see www.photofestmadison.org). Two daughters and six grand children occupy his spare "quality time."

James C. Dawson, BA (MS '67), still teaches geology and environmental science undergraduate courses after 32 years at the State University of New York (SUNY), Plattsburgh, and also still serves on the New York State Board of Regents.

Maynard Nichols, PhD, retired from the faculty of the College of William and Mary, Virginia Institute of Marine Science in 1992. Besides being a professor emeritus, he is now an artist!

1966

Liang Chi “Lee” Hsu, PhD, has become a professor of geology, emeritus, at the Mackay School of Mines, University of Nevada.

1969

James Barker, BS, is an associate director for the New Mexico Bureau of Geology and Mineral Resources. He and his wife Gretchen recently completed a major remodel of their home in Socorro, New Mexico, where they plan to retire.

Bobby Presley, PhD, is in his 31st year in the Oceanography Department at Texas A&M University. He will probably retire this year—although he’s been saying that for at least five years! His son David, who was born while Bob was a student at UCLA, returned to LA and has been working for movie production companies—look for his name in the credits! Daughter Rebecca works in Newcastle, England, where her husband is a chemistry professor. Bob and his wife Teri love to travel; they’ll go just about anywhere to get away from Texas in the summer.

1970

David “Andy” Link is keeping busy teaching continuing education courses to fellows in the petroleum industry.

1971

Ed Warner, MS, has been very busy since retiring from natural gas exploration in late 2000. He volunteer teaches from third grade through grad school at Colorado State University, Denver Public Schools, and the Denver Museum of Nature and Science. He’s a board member of the Sand County Foundation working on community based conservation projects in the US and Africa,

and has been to Africa four times in the last three years, including South Africa, Botswana, Zambia, Zimbabwe, and Mozambique. He planned to return this fall to visit projects in Tanzania and Mozambique, working with very poor tribes promoting wildlife conservation as an economic commodity using adaptive management techniques. And he’s been invited to give a Goldschmidt Lecture at the Norwegian University of Science & Technology in October on his way to Africa! He also runs a volunteer program for Philmont Scout Ranch in Cimarron, New Mexico, teaching geology to backpackers in the high country. The rest of Ed’s life is also devoted to fun—he and wife Jackie travel extensively, with museum hopping and scuba diving being favorite activities.

1973

Ken Smith, BS, is in plumbing and real estate. He and his wife Jenny have a four-year-old son.

1974

Jim Norman, BS, is Vice President of GeoTrans, Incorporated—they do work in environmental sciences, water supply, and GIS/Data-base.

1975

Thomas R. Fairchild, PhD, helped organize the first modern Brazilian geology text (in Portuguese) in the past 30 years. Published in November of 2000, this 24-chapter, full-color volume is already in its 2nd printing, with more than 8,500 copies sold.

1976

Karen Hochstrasser Shulman, BS, is currently a practicing attorney in personal injury defense representing both public and private entities. She’d like to hear from anyone from the class of ‘76—her email address is kshulman@dblegal.com.

1978

Stephen N. Ehrenberg, PhD, has been working mostly in Iran lately, describing cores (Oligocene-Miocene carbonates) and doing fieldwork in the Zagros Mountains.

1979

Warren Thomas, PhD, has moved up from managing the UCLA Chemistry Department to being the Assistant Dean of Physical Sciences in the UCLA College of Letters and Science.

1980

Joseph S. Polovina, MS, is a consulting geologist doing exploration for platinum, gold, copper, and other metals and industrial minerals in both the

US and internationally—most recently, in Argentina.

1981

Bruce Bilodeau, MS, survived the second merger of Chevron-Texaco, and its seventh reorganization—“Retirement is looking better and better!”

1982

John Hoobs, BS, is Vice President and an associate geologist for a geologic consulting company in San Diego. He and his wife Linda recently celebrated their 20th wedding anniversary. They have two boys—12-year-old Eric and 10-year-old Brian.

1983

Doug Armstrong, BS, teaches high school science, math, and Spanish for the Yupit School District. He is taking the next school year off to kayak and hike in Mongolia and travel and scuba dive in Central America.

1986

Karen McBride, BS, pictured here with a couple of her NASA colleagues, says that it rarely snows in Washington DC, but when it does, the whole city shuts down. On December 5th, it had snowed all night, and a few diehards decided to ski to work. You see them here on their “coffee break!”

1989

Eric Smart, BS, does reclamation of abandoned mines and restoration of damaged river systems for MCS Environmental. He and his wife Nicole have a one-year-old daughter, Gabrielle.



Karen McBride and friends skied Capitol Hill

1990

Denise Battles, PhD, is an associate professor of geology and associate dean at the Allen E. Paulson College of Science and Technology at Georgia Southern University.

1992

John Holodnik, BS, and **Vivian Woo**, BS '93, are married and living in Pasadena. They've been together ever since their days at UCLA. After receiving her bachelor's in geology and English from UCLA, Vivian finished a master's in English from the University of Washington, and worked in the publishing and computer industries. John worked for a number of years in engineering geology consulting up in Washington during that time. For the past six years they've both worked and have vested interests in a leading manufacturing firm in Los Angeles. Vivian is in charge of sales and marketing, and John runs the production department. Their website is www.bivans.com.

1993

Laura Webb, BS, worked at American Geotechnical in Anaheim, California on projects related to the 1994 Northridge earthquake. She did her graduate studies at Stanford University—her PhD thesis was on the exhumation of ultrahigh-pressure (UHP) rocks in the Qinling-Dabie orogen; she spent three field seasons in China. She also did collaborative work on a core complex and associated rift basins in southern Mongolia. When not in the field, Laura worked as a research assistant in the argon lab. She graduated in the Spring of 1999, then had a post-doctoral position at the University of Geneva, Switzerland, where she was the argon



James Duncan (front right), with his students and Charles Elachi and Jerry Schubert

geochronology laboratory manager. In September, 2000, Laura moved to Syracuse University in New York, where she is the laboratory manager for SUNGIRL (Syracuse University Noble Gas Isotopic Research Laboratory), which houses new facilities for argon and (U-Th)/He thermochronology. She participated in field work this summer in the UHP rocks of the Shandong (or Sulu) area in China. Laura was back at UCLA this August doing *in-situ* zircon analyses on eclogites from Papua New Guinea in the WM Keck National Center for Isotope Geochemistry.

1994

James Duncan, BS, teaches advanced placement physics classes for the WS Hart School District in Canyon Country, California. He brought several of his students to the E&SS 2002 Distinguished Alumni Lecture (see photo above).

1996

Matt Saltzman, PhD, started his third year as an assistant professor in the Department of Geological Sciences at Ohio State University.

1999

Nicole Lautze, BS, is now a PhD candidate at the University of Hawaii. She went to Italy on a Fullbright Scholarship in 2000-2001, and was an NSF Graduate Fellowship recipient in 2002.

Shirley Baher, MS (PhD '01), is a research associate at the University of Wisconsin, Madison. She had to adjust to the winter weather there—her first encounter with black ice was not pleasant! She likes Madison, though—the pace there is a lot slower than in Los Angeles. She is finding her research to be interesting; one of her projects is to work on data from an array in Parkfield, California—and they get real time data there in Madison via satellite from California!

2000

Lysa Chizmadia, MS, is continuing her graduate studies at the University of New Mexico, working on aqueous alteration of CM carbonaceous chondrites.

Atoka (Kumagai) Eguchi, BS, moved to a small village in Saitama, Japan, to learn organic

farming—something that she and her husband had been interested in learning to do for a long time. They became one-year trainees on an organic farm in the village of Ogawa, which is famous for organic farming. Atoka enjoys the beautiful mountains and rivers there.

2001

Nyssa Roeth, BA, teaches high school physical science in East LA. She loves teaching, and has become somewhat of an activist, in an effort to keep geosciences in the high school curriculum in California.

2002

Eric L. Mittelstaedt, BS (astrophysics with a geophysics minor), sends his regards from Honolulu, where he has already started attending classes and doing research in the PhD program in geophysics at the University of Hawaii.

Jennifer Zamora, BS, is now working at Earth Tech in Long Beach, California. She tells us that classmate **Christopher Dueñas** (BS '02) also works there, where they do groundwater contamination work at Edwards Air Force Base.

Faculty

Gary Lane is an “alumnus” of the ESS faculty, teaching here from 1958 to 1973. He team-taught the undergraduate paleontology class with **Clarence Hall** and **Bill Schopf**. Gary keeps in touch with his former UCLA students, especially **Gary Webster** (PhD ‘67), **Al**

Larson (PhD ‘66), **John Grimmer** (BS ‘71), and **Bruce Haugh** (PhD ‘73). Gary transferred to Indiana University in 1973; he was chair of the department from 1984 to 1987; president of the Paleontological Society in 1987-88; and was awarded the Raymond C. Moore medal of the SEPM

for excellence in paleontological research in 1995. He retired from Indiana University at the end of 1995. He and his wife Mary continue to live in Bloomington, Indiana, and he’s still active in research. Since 1991, he has made five field excursions with two of his former Indiana University

students, Chris Maples and Johnny Waters, to the Xinjiang-Uygur Autonomous Region of China, where they collect a very large late Devonian fauna. Gary recently had a history of the Indiana University Geology Department published, titled *Geology at Indiana University: 1840-2000*.

In Memoriam

Harold Billman (BA ‘41) died in 1998 in Austin, Texas, where he had retired after an unusual and productive career as a paleontologist for the Union Oil Company in California, the Canary Islands, and Southeast Asia. [Robert Paschall]

William Clay Bishop (BA ‘50) died February 10, 1999, where he made his home in Anchorage, Alaska. [Robert Paschall]

Joseph Fantozzi (MA ‘56) passed away at the age of 78 on March 18, 2002 in his home in Costa Mesa, California. He was born in Evanston, Illinois on January 27, 1924, and his family moved to Southern California in 1935. During World War II, he was a pilot, serving as a Lieutenant in the Army Air Corps. After the war, he earned his Masters degree in geology at UCLA. He worked for the Union Oil Company of California for eleven years, and then for the State Lands Commission in Long Beach until his retirement in 1989. He is remembered by family and friends for his great sense of humor, quotable turn of phrase, and steadfast dedication to and love for his family (including his dogs). [Norman Bradley]



W. Wayne Fitkin, Jr.

W. Wayne Fitkin, Jr. (BA ‘53) passed away on July 24, 2002 at his home in Billings, Montana, with his wife Mary Lou present. Wayne was born on September 10, 1929, in Santa Barbara, California. Because his father was in the US Army, he attended schools in Santa Barbara, San Francisco, Salt Lake City, and Washington, DC. He also attended UC Santa Barbara, the University of New Mexico, and UCLA, graduating from UCLA with a degree in geology. In college, he was an active member of ROTC and Sigma Pi fraternity. After a tour of service in Germany, Wayne received an Honorable Discharge as a First Lieutenant in the US Army Corps of Engineers in 1955; he then served several years in the US Army Reserves. Wayne moved to Canada in 1956, where he was the Assistant Chief Geologist for Central Del Rio Oils, Ltd. in the western Canadian oil fields for nine years. Wayne married Ruby Claire Guthrie in 1957, and they had two daughters and a son. While in Canada, he and a partner began Summit Oils, Ltd., which later became Summit Resources, based in Calgary. Wayne left Summit in 1975 to pursue his love of planes and flying, and built a hangar at Springbank Airport in Calgary to house his new

business, Arrowhead Airmotive, Ltd. He returned to the United States in 1981, settling in Billings, Montana. Wayne married the former Mary Lou Duffey in June of 2000. Although semi-retired, he continued to work as a consultant in the oil fields until June of 2001. [Mary Lou Duffey Neumann-Fitkin]

Harold L. Fothergill (BA ‘41) died on December 27, 1999. His career was with Union Oil Company. [Mrs. Harold Fothergill]

Richard “Dick” B. Haines (BA ‘31) passed away at the age of 94 on February 16, 2003. He was born in Kansas City, Missouri September 27, 1908. He started at UCLA in 1927—it was then located at the north end of Vermont Avenue. He actually helped move the Geology Department to the Westwood campus. Upon graduation in 1931, Dick found that jobs in geology were practically nonexistent—so he worked in property departments of various movie studios. He also tried gold mining, bill collecting, and social work. In 1935, Dick worked in the testing laboratory of the US Engineers Office in Los Angeles, then as a surveyor for Rieber Laboratory in Modesto, California. In 1937, Dick began his 36-year career with Continental Oil Company (Conoco) as a field geologist, working his way up to Regional Geologist for the Western Area including California, Nevada, Oregon, Washington, and Alaska. In 1963, Dick was transferred to Ventura as Division Geologist of Continental’s Mountain Region. After he retired from Conoco in 1973, Dick was active with his hobbies of golf, gardening, photography, following the stock market, and trips to Hawaii. He is survived by his wife Aileen, son Robert, and daughter Joan Fill. [Joan Fill]



Richard B. Haines

Charles F. Lechler (BA ‘33) died on April 4, 2001.

Irving R. Neder (PhD ‘73) passed away in 1996. He did all of his undergraduate and graduate work at UCLA. For two field seasons, 1965-66 and 1966-67, he did field work with Larry Frakes (PhD ‘64), and Jim Matthews in the Horlick and Pensacola mountain ranges in Antarctica. Irv was a professor of geology at West Los Angeles College for many years. A mountain summit in Antarctica, Mount Neder, has been named for him—it is at 71°02' S, 167°40' E, and has a summit of 1,010 meters in the Anare mountain range, Victoria Land. [N. Gary Lane]

Please help us find a "lost soul" ... We've lost contact with:

John Adams '52	Pamela Endler '84	Alfred Hopkins '50	Albert Morejohn '51	Robert Shank '73
James Aitken '54	Todd English '85	Doralee Howell '59	Alexander Morelan '85	Ed Sherman '47
Richard E. Anderson '56	Harold Erickson '58	Donald Hughes '59	Earl Morley '56	Alexis Smith '94
Camille Anderson '85	Lars Ericson '59	Steven Ihnen '78	Billy Moser '62	Robert Smith '50
David Anderton '80	Brian Eytcheson '98	Robert Ilchik '90	Barry Mostovoy '58	Susan Smith '83
Jerome Ardavanis '53	Hossein Farmy '53	James Jackson '60	Lynn Muradian '83	Daniel Sokol '49
John Bacheller '78	Samuel Feldman '79	Andrew James '82	Donald Murphy '85	Howard Sonneman '56
William Bailey '31	Walter Foley, Jr. '43	Stuart Johnson '66	Donald Musselwhite '84	Karen Sorensen '87
Dana Barber '83	Lily Fong '85	Anthony Karpinski '63	Willard Nelson '57	David Sotolov '99
Patrick Barosh '59	Declan Ford '48	Arthur Keene '51	Murdock Nicholson '54	Paul Sroka '70
Joseph Bell '44	Ahmed Ali Fouda '73	Ibrahim Khan '71	Arie Nissenbaum '69	Robert Starr '55
Richard Berman '77	Karen Freedman '78	David King '59	Thomas Nylen '94	Ofra Stauber '84
Ronald Bertasi '89	Arthur Freitag '59	P. Kinney '39	Julio Olaechea '60	Robert Stoddard '55
Michael Binder '73	Paul Garton '41	Marti Lynn Klein '78	Norman Olin '61	John Swegle '66
Bobby Blanks '59	Grover Gauntt '42	John Kneemeyer '58	Garnet Oliver '38, '40	Thomas Tahara '66
Susan Block '73	James Gehling '96	Robert Koerner '81	Marie Ong '91	Richard Tanner '79
Marta Block '77	Mary Ginskey '94	Jean Konishi '81	Charles Orvis '57	Barry Temple '82
Richard Brown '59	Donald Gorg '54	David Krohn '56	Eugene Orwig '57	Patricia Teston '96
Dean Bryson '53	John Grady '47	Leif Landberg '60	C. Paver '28	Gary Thompkins '80
Rande Burton '73	Janet Ann Graff '93	Arthur Lander '58	Kenneth Peters '78	Mark Tippetts '72
Rebecca Cave '96	Cliffon Gray '49	John Landry '54	Jerome Petrie '50	John Todhunter '53
Fong Shun Chang '79	Alan Grobecker '68	Jack Leach '53	Nila Petrowski '74	Jack Tompkins '46
Jean Paul Chavez '58	Mabel Grouard '26	Robert Learned '62	Gordon Pine '61	Olai Torkelson '36
Hsueh-Cheng Cheng '71	Richard Gunther '76	Morton Levy '57	Gary Player '67	Roderick Trice '79
Edward Christensen '76	Gerald Hagerman '60	Ernest Lian '49	Jeffrey Rashoff '85	John Truhlar '58
Harold Christler '37	Douglas Hamelin '28	James Lindsay '55	Rudolph Ratliff '71	Stanley Uehara '66
James Clements '65	Donald Hangen '52	Anthony Lloyd-Morris '60	Sandra Redfearn '82	Edward Uren '52
Earl Cooper '39	Bruce Hanson '53	Louis Louis '50	William Renison '70	Mathilda Van Zele '56
Simon Cordova '56	Heather Hanunian '74	William Lumsden '55, '57, '64	Jean Richter '85	Jane Vanderaarst '84
Louis Czel '58	Robert Hart '67	Calum MacDonald '86	Howard Robbins '48	Fred Varney '35, '37
Donald Dailey '60	Lee Harville '69	William MacKersie '48	Charles Roberts '82	Donald Walls '59
Donald Daniels '88	Bruce Haw '51	Lee Madland '70	James Robertson '60	Suzanne Wardenaar '73
Richard Daum '37	Kirk Hayward '81	Kyna Mallery '96	Donald Robinson '58	Dianne White '92
Stephen Dawson '87	George Hazenbush '50	Barbara Mandel '68	Karen Robinson '78	John Williams '71
Richard Delsasso '56	Chester Herbst '71	Ellen McKay '82	James Robison '64	Cindy Windham '86
Howard Dohlen '50	William Hildreth '82	Kelly McSpadden '72	Mark Rogers '79	Clarence Winge '71
Thomas Drescher '52	Harold Hill '42	Roy Mead '34	Donald Rose '59	Henry Wise '39
John Dryden '52	Ron Hill '95	Thomas Meier '76	Richard Sams '64	Vivian Woo '93
Alan Eastwood '70	Terry Hirsh '71	John Meigs-McDonald '95	Deborah Sanders '95	Charles Wright '39
Edwin Edwards '63	Albert Hoblit '53	Charles Miller '27	Mark Sandstrom '77	Yuyao Xu '93
Leslie Ekas '85	Roger Hoeger '42	Holmes Miller '32	John Sargent '58	George Yonkman '57
Rachel Ellisor '92	Russell Hood '53	Kurt Miller '84	John Scott '65	William Young '53
Gregory Ellsworth '75	Robert Hope '66	Stanley Mitchell '33	Melvin Scribner '51	Susan Yudovin '79