

Earth Science Newsletter

JULY 2010

Inside This Issue

Emeritus Profiles1
 Letter From the Chair.....2
 Distinguished Alumni3
 Tales From the Trails.....3
 2009/10 Fund Drive4
 What Are The Alumni Doing?.....5
 Royal Geological Society of Goleta6
 Recently Retired.....7
 In Memoriam.....7
 1978 Department Photos.....8
 MS/PhD Dissertations.....9
 2009-2010 Field Trips.....9
 2009 Earth Science Awards10
 2010 Earth Science Awards11
 Field Trip Photos 12

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Emeritus Profile: Arthur Sylvester



Art Sylvester was born and raised in southern California, and received his A.B. degree in liberal arts from Pomona College in 1959. He was a Fulbright Scholar at the University of Oslo, Norway, where he matriculated in 1961. Art earned his M.A. and Ph.D. in geology at UCLA in 1963 and 1966, respectively. Early in his career he was a research geologist for the Shell Development Company, but UCSB made Art an offer he couldn't refuse, and he became a Professor in our Department in 1967. Sylvester was a member of the geological faculty of the University of California, Santa Barbara for some 35 years before retiring in 2003.

During Art's career, he taught courses in field geology at the introductory, intermediate, and advanced levels, structural geology, and neotectonics. He served as Chairman of the Department for five years and was Director of the University of

California's Scandinavian Study Center at the University of Bergen, Norway from 1972 to 74. He also was a Distinguished Lecturer for the American Association of Petroleum Geologists in 1984, served as director of that association's Structural Geology School for three years, and was an associate editor for AAPG Bulletin for four years. With Tor Nilsen, he led AAPG's field seminar in Exploration of Strike-slip and Rift Basins from 1989 to 2005. In 1994 he received Coast Geological Society's Distinguished Teaching Award in Education. He was the Science Editor of the Bulletin of the Geological Society of America for six years from 1989 to 1995 and received the Society's Distinguished Service Award for that work.

In 1995, Sylvester was a Fulbright Research Scholar at the University of Oslo, Norway, where again he studied the emplacement and evolution of granitic plutons in southern Norway. He continued and broadened that work as a Norwegian Research Council Fellow in 1996. While in Norway, Sylvester presented a V. M. Goldschmidt Lecture to the Norwegian Geological Survey, a lecture series named in honor of one of the foremost geochemists of this century. Also in 1995 he received the University of California's Presidents Award for Excellence in Undergraduate Research Mentoring, and in 1997 the UCSB Academic Senate's Award for Distinguished Teaching in the Mathematical, Physical, and Life Sciences. The UCSB graduate students in geology honored him with their Faculty Member of the Year award in 1999, and the undergraduate students did so, too, in 2000. Sylvester is a Fellow of the Geological Society of America, and a member of the American Association of Petroleum Geologists, the Coast Geological Society, the Seismological Society of America, and the Society of Sigma Xi. He was a Registered Geologist in the State of California until 2010.

Most Alums will especially remember Art for his Geology 104A course. The course introduced geology majors to making critical observations and collecting data in the field, making interpretations, then writing a brief report. Typically, day or weekend long field trips visited localities

OH CAPTAIN, OUR CAPTAIN: LETTER FROM THE CHAIR...

Ralph Archuleta



Dear Friends,

In our hearts we have always known that the Department of Earth Science is outstanding. Each year there are success stories that verify our intuition. Within the past year, three independent surveys have come to light. The first was The Times (London) Higher Education study showing that the Department was tied for 10th in the world (!) in the number of citations per paper in geosciences for the period 1999-2009. If one eliminates the national laboratories, UCSB is 5th in the ranking. In another survey by Science Watch, using publications related to earthquakes in the period 2000-2010, UCSB was ranked 9th in citations per paper with Professor Chen Ji being the 7th most cited author. Less scientific, but important, was the ranking of graduate schools by the US News and World Report: the Department was the 24th ranked Geoscience department in the US.

Of course, when one considers the stature of the faculty and students over the years, these rankings should not be surprising. This spring, Professor Doug Burbank was elected to the National Academy of Sciences for his work in geomorphological processes in relation to tectonics and climate. In this singular honor Doug joins Emeritus Professors, Jim Kennett, Tanya Atwater, George Tilton and John Crowell, as the other Earth Science faculty who have been elected to NAS. Professor Bradley Hacker was elected a Fellow of the American Geophysical Union, an honor bestowed on only 0.1% of the membership. Emeritus Professor Atwater has been awarded the Leopold von Buch Medal of the German Geosciences Society. Professor David Lea will be a Department of State Jefferson Fellow in 2010-2011 providing expertise on climate issues during his tenure in Washington, DC.

The graduate students have had their own share of prestigious awards. Rebecca Streit received a 3-year NSF graduate student fellowship; Ben Martin the NERSC Initiative for Scientific Exploration (NISE) 2010 Award, and Dan Luna a Fulbright scholarship.

During the last few years we have undergone considerable changes in faculty; the past year was no exception. Professor James Mattinson retired. Jim is the only member of the faculty who is "home grown" having earned both his BA and PhD in the Department. Jim was a recipient of the Woodhouse Award and produced a career that validated the faculty's choice. After a three-year stint at Carnegie Institution of Washington, Jim returned to the Department in 1973 as a lecturer and researcher; in 1977 he became an assistant professor. Jim has focused his research on zircon

U-Pb geochronology applied to problems in igneous and metamorphic petrology. He is a Fellow of the Geological Society of America. With his 2005 paper "Zircon U-Pb Chemical Abrasion ("CA-TIMS") method: combined annealing and multi-step dissolution analysis for improved precision and accuracy of zircon ages," in *Chemical Geology* he redefined the precision in dating that could be attained with U-Pb isotopes. Twice he has served as Chair of the Department—1991-1994 and 2003-2007 (Take it from me: that is a serious commitment to the Department bordering on lunacy). Jim's career has been truly extraordinary. At the 2010 national GSA meeting, Jim will be honored in a special session for his landmark contributions in geochronology. His contributions to the Department's dual missions of teaching and research will be missed. We are certainly hoping that he will continue his strong presence in the Department as one of our esteemed emeriti.

One note: while composing this letter, Professors Bruce Luyendyk and Rachel Haymon, informed me of their intention to retire, effective July 1, 2010. More on these distinguished professors in the fall letter.

Last year I reported that we had begun the recruitment of a new faculty member whose research was in coastal processes. We are ecstatic to have Professor Alex Simms joining us this July. Alex received his PhD from Rice in 2005 and became an assistant professor at Oklahoma State that same year. Alex is a sedimentologist who works primarily on Quaternary depositional systems. He is particularly interested in examining coastal responses to sea-level and climate changes. He has ongoing work on the coastlines of the Gulf of Mexico and Antarctica and areas of Texas and Oklahoma.

Another major change was finding a new Business Officer (basically chief of staff) to replace Leslie Edgerton who had retired last year. We are fortunate that Giulia Brofferio, former MSO of the Institute for Crustal Studies (ICS), accepted the position. Giulia has 14 years of service at UCSB starting in the College of Engineering with 9 years as MSO at ICS.

Within this newsletter there is more information about the Department's 2010 Distinguished Alumna, President Lori Bettinson-Varga of Scripps College. Having graduated with a BA in 1982, President Bettinson-Varga has gone onto a highly distinguished career both as a professor and as an administrator. During the Department Awards ceremony and afterwards she completely captivated everyone with her thoughtful and relaxed discussions on the role of higher education and its influence on our society. We are always delighted when one of our alumni can be so successful—it allows others to see what is possible.

The Annual Awards Ceremony is always one of the highlights of the year. It gives us a chance

to recognize the undergraduate and graduate students as well as our Distinguished Alumni, staff and faculty. The students though are the real center of attention. Each year the faculty has a difficult time trying to parse the awards among all those who are so deserving. It is a challenge that the faculty gladly accepts. Read on to see who received the awards. So what about the future? (Anyone have a Ouija board?) The past two years we have seen permanent cuts of ~8% to the budget. Those cuts have fallen hard, particularly on the staff. Next year we are optimistic so long as the Governor's budget for the University of California is not reduced. If the UC budget (as proposed by the Governor) remains untouched, we have been told that additional permanent cuts are unlikely. In addition, the current freeze on the hiring of faculty members would be lifted (Alex barely slid under the imposed freeze). The Executive Vice Chancellor has often stated that any new growth would likely not occur before 2013. In some ways, keeping one's head above water is a success, but this is not what we want. We have a dynamic department, and we need to build on the enthusiasm and energy that has been infused by appointments over the past decade and the continued influx of dedicated students.

With recent retirements, there is a pressing need to bolster certain areas in the Department. Without new appointments we will have to curtail our curriculum and limit our research directions. This comes at a time when we have increased our undergraduate majors to near maximum (for our resources) and have seen increased number of applications in the graduate program. **The study of the Earth never grows old.** Their educational experience has not been diminished. We have tried to maintain the same level of support—and we have been able to do that because of your contributions. You will find with this letter a list of worthy funds that you can support. I also want to point out that it will be possible to use the Internet to send a contribution. Even if you cannot afford a contribution at this time, please look at our web pages. We maintain our web pages on a shoestring, <http://www.geol.ucsb.edu/index.html> so they can be a little out of date at times, but the web pages are a resource to find out about latest developments in the Department.

Each year brings new challenges. The budget has kept us off balance, but we have not fallen. We have kept our focus on our programs in research and education. You can see from the continued honors received by our faculty and students that we have the foundation for continuing the tradition of excellence all of you helped to establish. Wishing each of you the best for the rest of the year and every year. Cheers from the Chair

Distinguished Alumni

Every year, the department honors one of its alumni, celebrates their accomplishments while providing our current students with exemplary role models.

Lori Bettison Varga



Lori graduated from UCSB with a B.A. in Geology in 1983. Memorable courses taught by Professors Macdonald, Sylvester (104A!), Sibson, Mattinson, Hopson, Atwater and Awramik inspired Lori to pursue an M.S. (1986) and a Ph.D. (1991) in geology from UCD. For both her master's and doctorate, Lori worked on low temperature hydrothermal metamorphism of ocean crust, focusing on the plumbing system of black smokers and, ultimately, the ore deposits of the Troodos ophiolite for her Ph.D.

Lori began her career in higher education as a visiting assistant professor at Pomona College from 1990-92. In 1992, she moved to Wooster, Ohio, with her husband Bob Varga, and both took positions in the Department of Geology at The College of Wooster. While at Wooster, Lori served as Chair of the department and as Associate Dean for Research and Grants. She received a NSF Young Investigator Award (1994-1999), as well as other NSF grants to support her research. Lori served as President of the Council on Undergraduate Research and was Director of the 18-college Keck Geology Consortium, which provides undergraduate geoscience summer research experiences.

In 2007, the call to higher education administration took her to Whitman College, in Walla Walla, Washington, where she served as Provost and Dean of the Faculty for two years. Lori is just completing her first year as President of Scripps College and was honored to have Professors Sylvester and Atwater serve as delegates for UCSB at her March inauguration.

Lori is married to fellow geologist Robert Varga, and they have three children: Matt (19), Will (16) and Lexie (12). Lori and Bob are thrilled to be back in California after being away since 1992.

Tails from the Trails

In August 2009 Cliff Hopson (professor emeritus, UCSB) and Jim Moore (geologist emeritus, USGS) revisited the site of a field camp in the High Sierra where they last worked in the summer of 1957. They traveled two days on horseback to reach the site at Woods Lake, 10,700 ft elevation. The trail was rocky, long, and hard but worth the stunning glacial landscape of almost continuous outcrop where the dominant white granite is cut by hundreds of dark mafic dikes. Jim and Cliff mapped this region 52 years ago as part of the geologic mapping of the Mt. Pinchot 15-minute quadrangle. Arguments around the campfire raged long into the night about the geology. The dikes provided the key to separating a bunch of older granitic intrusions (plutons) cut by the dikes from similar-looking younger plutons that truncate the dikes and contain no dikes. Continued work expanded the mapped extent of the dike swarm through the entire quadrangle, across Owens Valley and into the Inyo Mountains. They traced the dikes for 140 km and named them the Independence Dike Swarm in a 1961 publication. Subsequent radiometric dating placed the dike age at 148 m.y. (late Jurassic).

Since then subsequent workers found the swarm extends 600 km, and is perhaps the largest dike swarm in the west. It nicely separates abundant Cretaceous granitic plutons from the older Jurassic ones. The Garlock Fault cuts the swarm delimiting the amount of offset of that major structure, and the extent of offset across the Owens Valley right-slip structure constrains post-Jurassic movement along that feature.

For four days on this trip the geologists inspected the rock, and the cliffs rang with the sound of their hammers. The discussions and debates of a half-century ago raged again in camp between the two octogenarians. This time they had to consider plate tectonic theory, which had not yet been proposed at the time of their last visit. Both scientists thanked the gods of the mountains for the opportunity to visit once again this magical, inspiring place.



Owens Valley



Inyo Mountains

Emeritus Profile - Art Sylvester (cont. from page 1)

of volcanic, plutonic, metamorphic, or sedimentary rocks, giving students a broad overview of various types of geological problems. But most will remember the course most vividly as a "bootcamp" for developing the discipline and work ethic necessary to thrive not only as an upper division major, but also as professional geologists after their student years. Art let his students know from day one, that their admission to UCSB signified that they had the ability to handle the assignments he gave them, and that he expected no less than their best effort. Art demanded their best, and they delivered. At Art's retirement bash, large numbers of alums returned to Santa Barbara to honor Art, and tell us of the profound impact he had on their personal and professional lives.

Since he "retired", Art has remained very active in both research and teaching, returning to teach Structural Geology and Summer Field Geology and other courses over the past several years – alums will be please to know that the legend continues!



2009/2010 Earth Science Fund Drive

We had a great response to our funding appeals last year. It is gratifying to see our alumni taking a lasting and consistent interest in their department. When I explain to potential donors that we have substantial commitment of support from our alumni, it makes us believable about our needs and we are taken seriously. The department has benefited in particular from employer matching gift programs. Be certain to check with your company when you make your gift this year!

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<http://www.timeshighereducation.co.uk/story.asp?sectioncode=26&storycode=409181&c=1>
Science Watch:
<http://sciencewatch.com/ana/st/earthquakes2/>

WHAT ARE THE ALUMNI DOING?

Ashley Hall graduated in 2009 with a B.S. in Geophysics. She has since started a MS project in CSU East Bay.

Carolyn Gorny, obtained a BS with an emphasis in Earth Systems in Spring 2008. She is currently enrolled in a PhD volcanology program at the University of Otago in New Zealand.

Karine Hochstatter, graduated last summer 2009. She works as a laboratory technician for PTS Laboratories, a geotechnical core analysis lab, in the Los Angeles area.

Brandon Swan has started a post doc at the Bigelow Laboratory for Oceanic Sciences working on single cell genomes.

Belinda Roder, Spring 2009 graduate, will be getting her masters at UCLA in the Fall 2010 under the advising of Ed Rhodes. She will be studying geomorphology and neotectonics.

Marina Foster, current graduate, Spring 2010, is going to start a PhD program with Kelin Whipple in the Fall 2010 at Arizona State University.

Douglas "Gus" Tolley, a Fall 2009 graduate, is a Staff Scientist at Daniel B. Stephens & Associates, a hydrogeology consulting firm in Goleta, CA.

Mekhin Saetan received his B.S. in 2008 and just started a new job as a Field Geologist at Applied Environmental Technologies.

Molly Redmond will be starting a post doc at the Marine Science Institute here at UCSB.

Dylan Rood will be starting an NSF-post doc working on precariously balanced boulders in Southern California and their implications for seismic hazards. He'll be splitting time between Lawrence Livermore where he is based in the Center for Accelerator Mass Spectrometry and at UC Irvine where he will work with Lisa Grant Ludwig on this research project.

Brian Clarke has a post doc position with Manfred Strecker at the University of Potsdam, just outside of Berlin. He is working in Argentina with a focus on the timing of glacial advances as well as on variations in rates of erosion through time..

Hannah McKay, class of Spring 2009, is at California State University Northridge working on her masters with advisor, Richard Heermance (UCSB, c/o W07).

Colin Amos received his Ph.D. in 2007 and has decided to get back into academia. He recently started a post doc at UC Berkeley working on seismic hazards of the Eastern California Shear Zone.

Dick Heermance is now an assistant professor at CSU Northridge.

Sara Gallagher, received her BS in Summer 2009 and has been working as a Staff Geologist for ARCADIS, an environmental consulting company.

Brendon Walker, who just graduated this Spring 2010, will be attending San Diego State University in the Fall 2010 to obtain a masters degree in Geophysics.

Janette Hagan is working as a geoscientist for Exxon in Houston, Texas.

Jan Schmedes is working as a geoscientist for Exxon in Houston, Texas.

J

DEPARTMENT HIGHLIGHTS

ROYAL GEOLOGICAL SOCIETY OF GOLETA

2009-2010 was quite the eventful year for the Royal Geological Society of Goleta. A new Earth Sciences house, the self-proclaimed "Continental", has provided a refuge for the graduate students and shelter for several visiting prospective students. Some highlights of grad student activities to follow:

Our students demonstrated the caliber of their research at AGU, GSA, and other meetings this year. While some reported a more mellow AGU experience, fun was still had by all at the local watering holes. Our students presented their work through posters and oral presentations. Congratulations goes out to several graduate students this year for their achievements. Joseph Goode received a Coast Geological Society Graduate Student Award. G. Ben Martin received a NERSC Initiative for Scientific Exploration (NISE) Award. Jiana ten Brink and Jennifer Bradham were nominated for GSA teaching assistant awards. Congratulations goes out to those other graduates who I am sure received awards but were too modest to report their winnings to me.

Other notable actions RGSG members have taken part in is their continued support of outreach programs throughout the county, helping out with judging science fairs, teaching young children about dinosaurs, and general community outreach goodness. Stephanie Diaz, Katherine Spencer, Becky Streit, and Sarah Medley participated in FUSE (Family Ultimate Science Exploration).

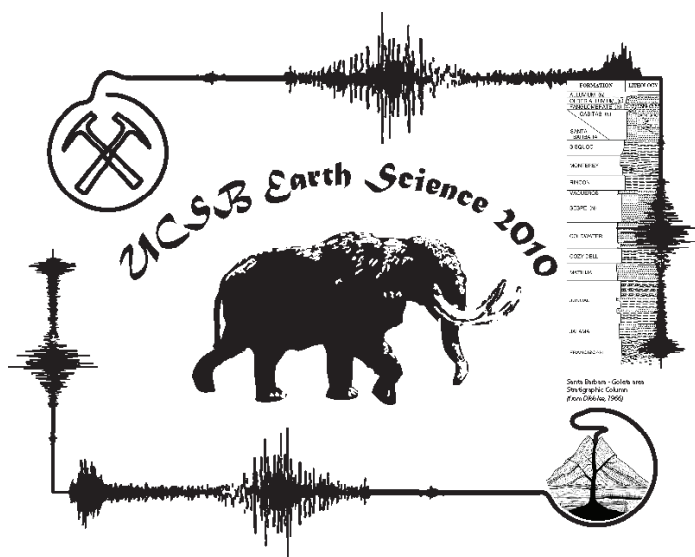
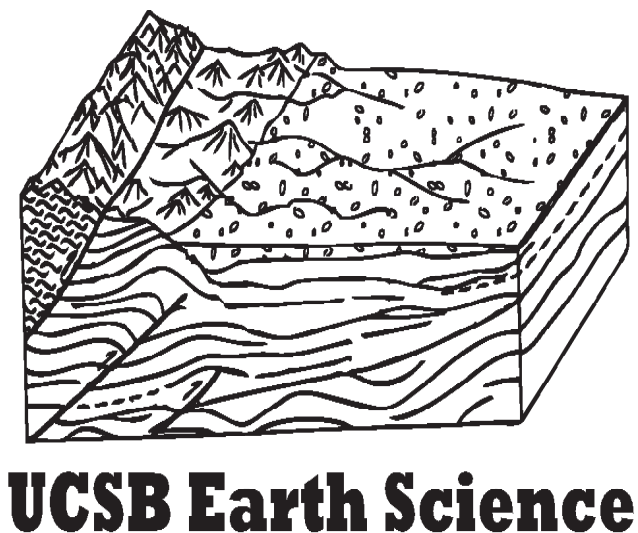
This year the RGSG has developed a fantastic t-shirt. Get yours while supplies last, buy them for your kids, grandkids, and neighbors!

Signing off in the final days of my regality,

Queen Jen

RGSG T-Shirt (Front)

RGSG T-Shirt (Back)



DEPARTMENT HIGHLIGHTS

Recently Retired

Professor Jim Mattinson

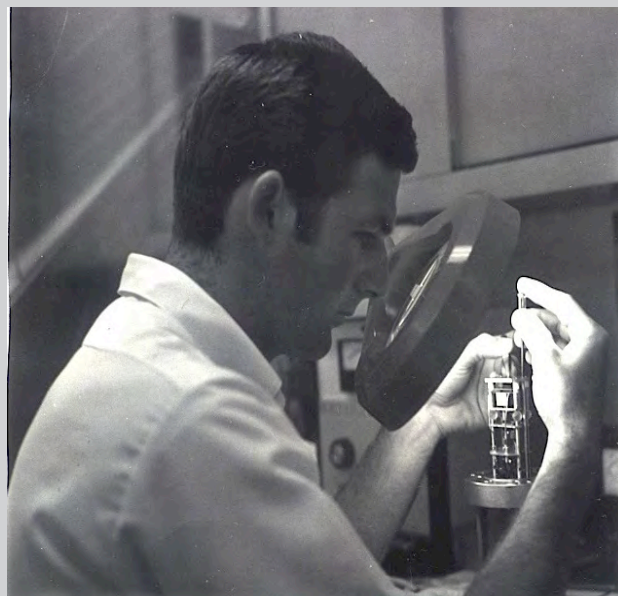
Professor Jim Mattinson officially retired at the end of Fall quarter 2009 after 36 years of service to the Department. Jim received his BS and PhD degrees from UCSB in 1966 and 1970, respectively. After several years as post-doctoral fellow at the Carnegie Institute in Washington, D.C., Jim joined the faculty in Geological Sciences as a lecturer followed by tenure



track appointments leading to Full Professor. Jim taught numerous courses in the Department but undergraduates will best remember his excellent mineralogy and petrology classes including optical mineralogy and isotope geology.

Professor Mattinson was Department Chair from 1991-1994 and again in 2003-2006. He kept the Department on an even keel during difficult times of declining budgets. Jim has published nearly 80 papers, most of these relate to solving geologic problems using U/Pb dating of zircons. Recently, he developed a new method of obtaining ultra precise dates by first chemically removing damaged layers of the zircon. His new method is now widely used in zircon dating.

The department will miss Jim's even temperament and fair and balanced approach as a colleague and department leader, and significant contributions to our core undergraduate curriculum. Fortunately he plans to maintain research in his lab joining the active emeriti group in the Department.



Jim Mattinson the PhD. grad student - circa late 60's

IN MEMORIAM

James Patrick Vanyo

Dr. James Patrick Vanyo, an affiliated professor with the Earth Science Department, passed away this Spring at the age of 82. Dr. Vanyo spent most of his academic career in the Mechanical Engineering Department at UCSB and collaborated on work with Professors Awramik and Spera.

Jim was born January 29th, 1928 in Wheeling, West Virginia and graduated from West Virginia University before moving to Columbus, Ohio. He obtained a law degree from Chase Law College and then went into the defense industry. In 1962 he survived a private plane crash over the Southern California deserts and subsequently survived a two day, 25 mile hike without water. He credited this event with being the impetus to reanalyze his life and he went on to enroll at UCLA, obtaining a Masters degree in astronomy and a Doctorate in engineering. He then joined the Department of Mechanical Engineering at UCSB in 1970.

James Vanyo was interested in many different areas of science and he frequently collaborated with Professor Stan Awramik on using stromatolites as recorders of Earth-Sun-Moon dynamics. They were able to determine the number of days in a Neoproterozoic year from analyses of stromatolite lamination.

He supervised numerous research programs and helped guide many students into research areas that best fit their interests. He concerned himself with helping students achieve career goals that would lead to their future satisfaction and highly valued the idea of being content with one's life work. He was also an outdoor enthusiast and served as the Outings Chairman of the local chapter of the Sierra Club for a number of years. He would often go with friends north into the high Sierra, where he once learned how to handle and look after teams of mule. Many old local trails were reopened under his influence and are now listed among the most popular. He was an early board member of what was then Las Positas Park where he spearheaded the Sierra Club trail on hillside up to what is now called Vanyo Point, which now overlooks a much enlarged Elings Park



Earth Science POINTS OF INTEREST



Can you guess who these faculty and staff are? (Hint: 1978)



Earth Science POINTS OF INTEREST

LIST OF MS/Ph.D. DISSERTATIONS (2009-PRESENT)

Joseph Lalicata - M09 - MS - Lea

Pleistocene Carbonate Dissolution Fluctuations in the Eastern Equatorial Pacific on Glacial Timescales

Brian Clarke - F09 - Ph.D. - Burbank

Hillslope Erosion by Bedrock Landslides and Diffusion of Unconsolidated Sediment

Benjamin Melosh - F09 - MS - Keller

Effects of Active Folding and Reverse Faulting on Stream Channel Evolution: The Santa Barbara Fold Belt, California

Jeanette Hagan - W10 - Ph.D. - Busby

Volcanology, Structure, and Stratigraphy of the Central Sierra Nevada Range Front (California), Carson Pass to Sonora Pass

Jan Schmedes - W10 - Ph.D. - Archuleta

Kinematic and Dynamic Modeling of the Earthquake Source: On Spatial Correlations of Source Parameters, Supershear Transition, and Strong Ground Motion

List of Department Field Trips in 2009-2010

Fall 2009

GS 2 - Principles in Physical Geology (Wyss) - Camino Cielo, Santa Barbara, CA.

GS 18 - Field Studies in Geological Science (Gans) - San Andreas Fault locations along central California

GS 104A - Field Studies in Geological Methods (Burbank) - Devils Punch Bowl, Vasquez Rock, Red Rock Canyon

GS 113 - Engineering Geology - (Keller) Carpinteria, CA.

GS 158/258 - Advanced Structural Geology (Gans) - Piru Creek, Lake Isabella

GS 201A - Graduate Research and Field Seminar (Awramik) - Death Valley, CA

Winter 2010

GS 2 - Principles in Physical Geology (DeVecchio) - Santa Ynez Mountains, CA

GS 103 - Fundamentals of Structural Geology (Gans) - Wheeler Gorge, Arroyo Burro

Spring 2010

GS 2 - Principles in Physical Geology (Gans) - Camino Cielo, Santa Barbara, CA

GS 18 - Field Studies in Geological Science (Gans) - Joshua Tree, Eastern Mojave, CA

GS 19 - Geology of Yosemite Valley (Keller) - Yosemite, CA

GS 102B - Sedimentary Petrology (Busby) - Ojai, Castaic, CA

GS 104B - Field Methods - (Hacker) Barstow, CA

Earth Science POINTS OF INTEREST

2008-2009 Departmental Graduate Awards



G.K. Gilbert Award

Jan Schmedes

Harry Glicken Memorial Award

Alice Koerner

Richard and Eleanor Migues Graduate Field Research Award

Jesse Mosolf

George Tunell Endowed Fellowship

Jeff Creamer

Wendell Woodring Memorial Award

John Moore

Preston Cloud Memorial Award

Jiana ten Brinke, Joseph Lalicata, Ben Melosh

Lloyd and Mary Edwards Field Studies Fellowship

Joseph Goode

RV Fisher Award

Bryan Murray

Geophysics Award

Guangfu Shao

Alumni Graduate Award for Research Excellence

Monica Heintz, Richard Lease

Fugro West Award

Andy Rich

Coast Geological Society Award

Jeff Creamer



Outstanding Academic Achievement Award Recipients 2009: Gus Tolley, Sarah Jones, Monica Erdman, Hannah McKay, Belinda Roder, Sarah Askeland.



Department Field Award: Craig Schaller, Chris Bowie, Geoffrey Olin, Amit Guru, David Arellano, Sarah Jones.



Graduate Award Recipients, 2009.



Students enjoying the Muckers BBQ on roof following the Awards Ceremony.

2008-2009 Departmental Undergraduate Awards



William Bushnell Memorial Scholarship

Eiko Kitao

Robert M. Norris Prize in Field Geology

Alicia Sherrin
Luisa Margiotta

Outstanding Graduating Senior

Monica Erdman

Outstanding Academic Achievement

Monica Erdman, Sarah Askeland,
Douglas Tolley, Hannah McKay, Sarah
Jones, Belinda Roder

Distinction in the Major Award

Monica Erdman, Hannah McKay, Me-
gan Gambs, Belinda Roder, Douglas
Tolley

Charles Douglas Woodhouse Award

Douglas Tolley

Venoco Field Scholarship

Caitlin Curry, Maia Davis, Monica
Erdman, Timothy Gross, Karine
Hochstatter

Department Field Award

David Arellano, Brian Beffa, Chris-
topher Bowie, Sarah Gallagher,
Amit Guru, Nina Haro, Sarah Jones,
Anthony Luna, Geoffrey Olin, Craig
Schaller

Coast Geological Society Award

Alicia Sherrin

Earth Science POINTS OF INTEREST

2009-2010 Departmental Graduate Awards



G.K. Gilbert Award

Richard Lease

Harry Glicken Memorial Award

Jesse Mosolf

Richard and Eleanor Migues Graduate Field Research Award

Monica Heintz

George Tunell Endowed Fellowship

Monica Erdman

Wendell Woodring Memorial Award

Leah Carver

Preston Cloud Memorial Award

Andrew Rich, Monica Erdman

Lloyd and Mary Edwards Field Studies Fellowship

Adam Ginsburg

RV Fisher Award

Jeff Creamer

Geophysics Award

Qiming Liu

Alumni Graduate Award for Research Excellence

Guangfu Shao, John Moore

Fugro West Award

Celso Alvizuri

Coast Geological Society Award

Joseph Goode



Graduate Award Recipients, 2010.



Undergraduate Award Recipients, 2010



Ralph Archuleta and Lori Bettison Varga,
this year's Distinguished Alumnus.



Another succesful Awards Ceremony BBQ
put on by the Muckers.

2009-2010 Departmental Undergraduate Awards



William Bushnell Memorial Scholarship

Joshua Noble

Robert M. Norris Prize in Field Geology

Marina Foster

James Worthington

Outstanding Graduating Senior

Bryan Norman

Alicia Sherrin

Outstanding Academic Achievement

Marina Foster, Robin Gee, Timothy
Gross, Brian Norman, Jake Sahl, Alicia
Sherrin

Distinction in the Major Award

Matthew Zane, Timothy Gross

Charles Douglas Woodhouse Award

Marina Foster

Venoco Field Scholarship

Robin Gee, Helen Thomas, Kyle
White, James Worthington, Katherine
Zeiger

Department Field Award

David Blum, Diane Clow, Kristof Igloi,
Sarah Kaplan, Bryan Norman, Colin
Vranzian, Melissa Zaragoza, Mat-
thew Manni, Jamie Persico, Leopold
Sanchez, Youri Yoon

Coast Geological Society Award

Marina Foster

GEOLOGY 103 TRIP: MOJAVE DESERT & LOWER COLORADO RIVER AREA -



(Right) Kristof Igloi and Bryan Norman.

(Left) Phil Gans and Jesse Mosolf with the entire Geology 103 class.



Geology 103 class learning how to use the Jacob staff.



Joseph Goode, Melissa Zaragoza, Kristof Igloi & Youri Yoon checking out metamorphic rocks.



Phil Gans giving a mid-day lecture.



William Barnes & Molly Zimmerman playing some campfire tunes.