Letter from the Chair:

WOW – yes, it is really us – the PSU Geology Department – with a Newsletter! To start where we left off with our last newsletter (2012) is too challenging, so let me rather report briefly on now and the recent past.

We had an amazing turn over of faculty over a period of two years. As exciting as it is to welcome new faculty, it is sad to see our long-time colleagues leave. With beginning of Fall term 2014, we welcomed Dr. Nancy Price and Dr. John Bershaw who replaced our retiring colleagues Michael Cummings and Curt Peterson. During the previous year, our new faculty Dr. Adam Booth and Dr. Max Rudolph stepped into positions vacated before by our colleagues Sherry Cady and Christina Hulbe. And wait, we are not done yet with updating our faculty profile. Dr. Ashley Streig will join the faculty in fall of 2015, she will replace Scott Burns who retired in December of 2013. You may wonder what all of our former departmental icons are doing, well, in this Newsletter we devote a specific section to that – what they are all up to and whether or not you may run into them when visiting Cramer Hall. I refer you to this section below but can tell you already that retirement for some is mostly a piece of paper – you probably guess whom I mean …. Also, our new faculty are introducing themselves, so please see below.

You may already have noticed, the Chairmanship has fallen into my hands. I started my new function beginning of September 2014.

Needless to say these are very exciting times in the department but CONSOLIDATION is a word I have used quite often over that last few weeks as new faculty settle in and some of us function in new, unfamiliar roles.

All of our academic programs are doing very well. We have currently on the order of 160 majors between our BS Geology and BS Earth Sciences programs, and the trend has been upward for the last few years. This has put pressure on our 300-series major classes, and we have now gone to three lab sections for Surface Processes, Mineralogy, and Petrology as enrollment has climbed to between 40-60 students! We can also note an increased interest into our Masters program with an average of 30 students who apply for our program each year. The actual number of students admitted however has only slightly increased over the years as students typically are less likely to come when there is no chance for financial support through teaching or research assistantships and the number of teaching assistantships has been flat for a number of years. We also continue to attract PhD students who apply regularly through the School of the Environment (SOE) – the administrative structure hosting the PhD program for us, Geography and Environmental Science & Management.

Talking about student support, we continue to make very good use of your foundation donations. In fact, your donations give us the important means to support unfunded research
efforts at all levels. This is particularly evident on the Masters level where MS projects require significant data to be meaningful and where the increased number of Masters students put extra pressure on faculty to provide the necessary funds.

Funding is typically granted to offset analytical costs and costs associated with fieldwork. Thus, funds support the student’s research project directly that otherwise would have been much more difficult to do or could only be done on a much reduced scale. Sometimes funds are also used to defray some costs of attending a scientific conference. Attending a scientific conference is important but costly, but has changed the professional outlook of a student more than once. So please, keep replenishing our foundation accounts that support research of students or any other fund.

You are important to us so please keep us informed on changes in postal and email addresses. We like to hear about your whereabouts and stories.

With warm wishes for the Holidays!

Martin Streck

FACULTY

John Bershaw:

As a Portland native and a graduate of Jesuit High, I am excited to have recently joined the Geology Department at Portland State University where I am currently teaching Sed/Strat and planning Basin Analysis for Winter term. Previously, I was working at Chevron in Houston, Texas where I was an Exploration Geologist, using 3D seismic datasets and well log information to characterize hydrocarbon potential in both frontier and mature basins including the deepwater Gulf of Mexico, Iraqi Kurdistan, and west Greenland among others. Previous to my experience in industry, I obtained my PhD from the University of Rochester where my research was focused on the tectonic evolution of high plateaux (Tibet, Pamir, and Altiplano) and effects on regional climate using Sed/Strat fundamentals and geochemistry. My bachelor’s degree was obtained from Pomona College in Los Angeles, CA.

I am married with two kids, Sage (6) and Juno (3). Though our family is still getting settled, we’re already enjoying the natural abundance in the Pacific Northwest through trips to the Columbia River Gorge and Oregon Coast. I look forward to exploring our environment with students, colleagues, and friends alike!

Adam Booth

Adam Booth joined the faculty in the fall of 2013. His research program focuses on the role landslides play in landscape evolution using quantitative tools such as numerical modeling, lidar data analysis, and increasingly, physical modeling and fieldwork. He teaches classes from the intro to graduate level in processes in the surface environment.
Prior to landing a job at PSU, Adam earned a bachelor's degree in physics from Grinnell College, PhD in geology from the University of Oregon, and was a postdoc at Caltech. When not working, he mostly wrangles his two children and tries to spend some time with his wife, but can occasionally be found running trails near campus.

**Ken Cruikshank**

Ken is in his 20th year of teaching at PSU and is on sabbatical this year. He continues to do teaching and research in the areas of geomechanics, structural geology, data analysis, computer applications and instrumentation. He had two MS students complete their degrees this past spring: Matt Lancaster and Josh Brockaway. (editor)

**Andrew Fountain**

Andrew Fountain. My new remit in the department has been teaching G201, introduction to geology, and I find that I enjoy teaching entry level large classes. And I appreciate tackling the broad sweep of geology rather than drilling in to the details. Its also a bit frustrating because the great stuff is in the details.

As for my research, my days with the Long Term Ecological Project in Antarctica (McMurdo Dry Valleys) are coming to a close. Time to let younger scientists to take over. I have one more year with the project then I'm off. That doesn't mean I won't be returning to Antarctica, however. I may have other individual projects in the future. But certainly my participation in Antarctic science will diminish. While that chapter closes, I plan on focusing my efforts on our glaciers back home, their change and ultimate future. This has been particularly rewarding with local presentations to the general public in addition to interactions with federal agencies and other universities.

Next year is sabbatical, and I hope to catch up on my many research efforts which are now half (or less) completed.

**Rick Hugo**

My research has been focused on using Transmission and Scanning Electron Microscopies to study the deformation, recovery and annealing of meteorites that have experienced impacts during or after their formation. In particular, I've been developing a correlative microscopy approach that allows me to track deformation features from the nanoscale all the way to the thin-section scale. I'm also continuing to do geoscience education outreach, working with Mike Cummings and local non-profits to work with K-12 students and teachers. I'm teaching Scanning Electron Microscopy, Global Environmental Change, my Capstone course Science Inquiry in the Outdoor Classroom, and this year I'm excited to teach Computer Apps while Ken Cruikshank is on sabbatical.
David Percy

It's always great for me to run into our alums at conferences and other places, and great to hear that many of you use some GIS skills that you learned here in your current work. I was elected to another 4 year term as a representative of the US to the IUGS' Commision on Data Management and Dissemination; this keeps me traveling all over the world for our annual meeting. I am working on the thesis for an MS in Data Science and should be finishing soon. Mentoring in the Google Summer of Code has taken more time, but produced great results such as managing many zoom levels of EM data, or visualizing subsurface data in a spinny globe similar to Google Earth. Our Christmas band just finished our 12th year of playing shows at nursing homes and bars. This year our 10 year old daughter, Opal, was a full member of the band, playing glockenspiel on all of the songs! Our rock band, the Lazy Champions still plays a few gigs every year, usually at a kid friendly pizza place. Send emails; it's always great to hear from you!

Ben Perkins

I am still teaching Groundwater and Chemical Hydrogeology classes. This fall, I also picked up Environmental Geology, formerly taught by Scott Burns. I am currently working with some wonderful graduate students on a variety of projects. Megan Masterson is studying the groundwater chemistry of the Piceance Basin in NW Colorado, using a published USGS database. Gabriella Ferreira is investigating mechanisms that control the release of arsenic from tuffaceous rocks collected in Lane County, an area long known to have elevated groundwater arsenic levels. Michelle Sanders, with no small help from Curt Peterson (even though retired!) is using ground-penetrating radar and electrical resistivity techniques to map out aquifer boundaries and groundwater levels in a pumice aquifer northeast of Crater Lake. And, most recently, I have been working with Donnel Malkemus testing out a newly developed geothermometry method, comparing results with past assessments at Brietenbush Hot Springs. The Trace Element Analytical Lab (TEAL) is still supporting student and faculty research. This last year we added a handheld XRF-unit, thanks largely to the efforts of Michael Cummings and Martin Streck.

Nancy Price

I wear two “hats” in the Geology department: geoscience education and geology research. As a hard rock geologist, I work on deformed rocks, asking questions about the mechanisms of fabric development, the mineral-scale accommodation of strain, and the rheological evolution and PTD histories of deformed rocks. My research has taken me to New Mexico to study Precambrian quartzites, to Maine to study Paleozoic fault rocks, and to various locations along the Appalachian orogen to study fabric development and tectonic histories. Many
of these projects were started as part of my graduate work or as side projects done at the University of Massachusetts-Amherst (MS) and the University of Maine (Ph.D.), and represent work I have been continuing here at PSU. This summer, I will be out looking to find some great west coast field areas to which I might expand my research.

My teaching experience spans from serving as a teaching assistant at The Richard Stockton College of NJ (BS) to serving as a primary instructor for geology classes at the undergrad (Maine) and community college levels (Maryland). Prior to moving to Portland this past summer, I was working in Washington, DC for an education non-profit on projects related to the new K-12 science standards (the NGSS). Now at PSU, I am getting away from national- and state-level science policy and focusing on studying and supporting the implementation of the new standards at the classroom level. I am also involved with advising for the GTEP program, teaching the earth science courses for educators, working with the teaching assistants to build their skills, and taking over the instruction of mineralogy.

On the personal side, I am an east coast Yankee who suddenly finds herself in the middle of a west coast city. Although I will always have ties to the world back east (Go NJ Devils!), I am hoping to take some time in the off hours to explore the city and surrounding areas to find my favorite places and to make Portland my new home.

**Max Rudolph**

I have been on the faculty at PSU since February of 2014. Before coming to PSU, I completed my PhD at UC Berkeley in the Department of Earth and Planetary Science and spent time as a postdoc in the Physics Department at the University of Colorado, Boulder. I am interested in thermal evolution and tectonic processes of Earth and other planetary bodies, particularly the icy satellites of Saturn and Jupiter. I also work on some problems related to the mechanics of erupting systems including mud volcanoes, geysers, and magmatic volcanoes. My teaching responsibilities at PSU include G326 (Numerical Modeling of Earth Systems) as well as undergraduate and graduate courses related to my research interests.

This fall I have been working on a project to identify the fluid sources that sustain the Lusi mud eruption in East Java, Indonesia, an ongoing mud eruption that began in 2006 and has buried thousands of structures, displaced tens of thousands of people, and cost more than $4 billion USD in economic losses. At the AGU Fall Meeting this year, I presented a new study of Earth’s mantle viscosity structure using transdimensional Bayesian inference. I am currently working with three PSU undergraduate honors and research students on problems related to dynamics of mantle plumes, mantle thermal history during supercontinent assembly and breakup, and tectonic processes on Europa.
Alex Ruzicka

Besides the usual teaching and solo wilderness hikes (including as a highlight a backpacking trip in the Canadian Rockies), the last two years have featured student, research, publication, and service milestones. One big milestone was the completion earlier in 2014 of a huge and already-much-cited Invited Review for Chemie der Erde—check out the copy in the Geology Lounge, if it’s still there). Student milestones have included graduations (Ryan Brown, B.S. 2013; Karla Farley, B.S. with Honors 2014; Kristy Schepker, M.S. 2014; Kat Armstrong, M.S. 2014). Kristy is now joining us in the Ph.D. program and Kat will be starting a Ph.D. in Bayreuth, Germany.

My research has been on 3 main tracks: 1) finishing work on an externally funded project concerning shock deformation of olivine in chondritic meteorites (with faculty Rick Hugo), 2) work on a different externally funded project to study the origin of large igneous inclusions in chondrites (with students Katherine Armstrong and now Kristy Schepker, and with out-of-state and international collaborators), and 3) ongoing classification work of newly-recognized meteorites in PSU’s collection (with students Karla Farley, Ryan Brown, Kristy Schepker, Kat Armstrong, T.J. Schepker and faculty Melinda Hutson). The shock deformation project was enlarged part way through by a successful grant to acquire a state-of-the-art EBSD (electron backscatter diffraction) detector for PSU’s “Geology” SEM. Research milestones this year included two additional papers submitted for peer-review, by myself and Rick Hugo, Ryan Brown, Melinda Hutson, and Fordham University collaborator Jon Friedrich.

On the service front, one milestone has been reached as I finish my duties as Chair of the Membership Committee of the Meteoritical Society. I continue to be active as an Associate Editor of Meteoritics & Planetary Science and on the Meteoritical Society’s ever-busy Nomenclature Committee, the group that decides on meteorite names and officially approves new meteorites for the whole world.

No newsletter blurb would be complete without mention of the Cascadia Meteorite Laboratory (CML). We gratefully appreciate public donations to the CML, which funds student projects and outreach activities by Dick Pugh, and which allow us to enhance and grow PSU’s meteorite collection and make scientific discoveries along the way. The collection started with one meteorite in 2003 and now numbers over 800 different meteorites, grown through grassroots support. Thanks to all for making this experiment a success.

Ashley Streig

Hello PSU Geology Community! I am really excited to join the PSU Geology Department Fall of 2015. I work on Neotectonics and earthquake geology and specialize in paleoseismology. I look forward to teaching courses on The Geology of Earthquakes, Natural Hazards, and Geology for Engineers. I am currently interested in whether recurrence intervals for forearc faults in the Pacific Northwest are intrinsically linked with the long recurrence of Cascadia subduction zone events. I was awarded and NSF Earth Sciences Postdoctoral Fellowship to research this problem. I am presently working at Oregon State University and University of Oregon as an NSF Postdoctoral Fellow. I completed my PhD spring 2014 at University of Oregon with Ray Weldon. My dissertation investigated earthquake recurrence and style of deformation on the
Northern and Southern San Andreas Fault. I was invited to present my research on the Southern San Andreas Fault last April at the Annual Seismological Society of America (SSA) meeting and was awarded an SSA Student Presentation Award for my work (http://www.seismosoc.org/awards/student-awards/). My work on the Northern San Andreas Fault was published in the Bulletin of the Seismological of America in February (http://www.bssaonline.org/content/104/1/285.abstract). This is an exciting study for the SF Bay Area, we present the first geologic evidence of rupture on the San Andreas fault in 1838, 1890 and the well documented 1906 earthquake. These findings have changed how we look at earthquake recurrence in the last 200 years on the Santa Cruz Mountains section of the San Andreas Fault. This article gained attention from media in the SF Bay Area, the publication was reviewed by NPR affiliate KQED Science (http://blogs.kqed.org/science/2014/03/20/digging-up-new-information-on-old-earthquakes/) and is highlighted in the June edition of EARTH magazine.

In my spare time I enjoy bike touring, backpacking, swimming, kayaking and fly fishing. I am not very good at the last two and hope to find opportunity to improve my skills kayaking and fishing while living in the Portland area. See you next fall!

Adjunct Faculty

Matt Brunengo

Guess I’m one of the "utility infielder" adjuncts, filling in at a variety of positions. This quarter I am teaching G 201; next quarter, it will be G 301 (intro geology for engineers) for the third time (just love those 8 am classes in January). Last spring I pinch-hit for Andrew Fountain in glacial geomorphology (G 465/565), partly as an excuse to lead a three-day field trip back to see glacial deposits and landforms in central and western Washington. I also enjoy tagging along on the G 200 trips to Eliot Glacier and the Willamette Valley, and a similar new Anthro Department trip for Portland-area archeology. Next year I have to work on my Scott Burns impressions in order to take over in engineering geology (G 470/570) and (G571/671)

In addition, I serve as co-director of communications for the Association of Environmental & Engineering Geologists, and attended AEG’s national meeting in Seattle last year, as well as the international (IAEG) congress in Turin in September (great excuse for a 5-week junket in Europe). I still do some consulting around the Northwest; in particular, I was recruited with a group of geologists and engineers to advise (and defend in court) the Washington Department of Natural Resources on issues surrounding the Oso landslide: during my old job at DNR I had visited the area many times, and my fingerprints are all over the procedures and rules regarding forest practices on unstable slopes. Whether this is reward or punishment ....

Frank Granshaw

Though recently "retired" from 25 years at Portland Community College I continue to teach geology and environmental science at both PSU and PCC. With an academic background in glacial geology and geoscience education (PhD / MS from PSU and MAT from Lewis and Clark College) I research and develop on-line and classroom learning tools related to glaciers, climate, local field sites, and national parks and monuments . As a university and a community college educator I am involved in programs that bridge 2 year and 4 year institutions. ( e.g. Geo2YC and SAGE2YC (programs through Nation Association of Geoscience Teachers) and IDES (an undergraduate research program for
community college students at OSU)). As a geoscientist with a strong interest in environmental sustainability. I am frequently engaged in several programs seeking to create field-based opportunities that help K-16 students understand, appreciate, and hopefully preserve natural systems within the urban environment they live in. In addition to all of this career stuff I'm a "charter member" of SNOB (Society of Native Oregon Born), happily married to another avid outdoor person, and a proud grandpa twice over.

Michelle Stoklosa

I have been teaching in the Geology Department at Portland State since the fall of 2010. At that time I had recently moved to Portland from Boise, Idaho, where I had been teaching full time in the Geology Department at Boise State University. I found that Portland was quite a different city from Boise!

Before living in Boise, I was a graduate student at the University of Wisconsin-Madison, from which I earned my M.S. and Ph.D. degrees. My research had been primarily in carbonate sedimentology, which of course involves lots of invertebrate fossils. When I first started at PSU, I only taught the classes that involved fossils (Life of the Past, then Historical Geology) because the rest of the department was apparently afraid of the clams and trilobites! 😊

The last two years have been even more fruitful for me at PSU, as I have been teaching more courses, such as the Geology 201 and 202 courses, an online lab for Geology 205, and the University Studies course Global Environmental Change. More recently I have also enjoyed working with more of the geology majors, and have even gotten some students interested in doing some independent research about fossils and carbonate rocks! I was also quite surprised and honored to receive the John Eliot Allen Outstanding Teacher Award for the Geology Department in 2014.

I look forward to what 2015 brings!

Retirees and New Zealand Deans

Scott Burns

I retired on December 31, 2013 after 44 years of teaching. I still am in contact with students I had in my first year as a professor in 1970 at the American College of Switzerland. We had a wild retirement party at PSU organized by Andrew Fountain and 8 other past PSU students and friends that included videos, bagpipes, goofy awards, medals, and free throw shooting. We had 405 attendees, and we raised $105,000 for two scholarships to be awarded each year in geology. The first two winners were Dougal Hansen and Selicity Icefire last June. I still have 10 graduate students writing theses and dissertations so life is kept busy reading chapters! One of them will be my 50th graduate student when they defend. I should have 5 defenses this winter quarter. They are turning out super! This past year I won a big honor, receiving the Outstanding Scientist of the Year for the State of Oregon by the Oregon Academy of Sciences. In its 73 years of awarding this award, I was only the third PSU professor to win it. I also won the Distinguished Practice Award in Engineering Geology for the GSA in 2012. My 24 straight years of teaching for Stanford University in the summer came to an end this summer, but the Smithsonian
picked me up, and I will be leading a trip to Iceland in July of 2015.

Glenda and I spent a month in my old chalet in Switzerland last January to celebrate retirement – we got in 10 days of perfect skiing while we were there, and our kids all visited for a week. We took them onto the slopes to see where I ran over their mom 41 years before and started the whole thing. Retirement will be filled with travel, skiing, writing, golf and full court basketball (I was 2 for 5 today!). I will continue to give geology talks and work with the media on geological current events. I have a four year commitment at the new president of IAEG and that will be fun. I am the first American president of the organization in its 50 years history. I already have keynotes set up for Rio de Janeiro, New Delhi, Beijing and Glasgow for next year. I also am the new member of the Oregon State Board of Geology Examiners and that has four meetings a year. I also hope to complete my book on the natural history of the Swiss Alps and some additional papers on some of my favorite research for the past 25 years in the areas of landslides, Missoula Floods, terroir, radon, alpine soils, and geological hazards. Life has been good, and I enjoyed my 24 years in the department. I hope to continue teaching Geology of the National Parks for as long as the department allows me to teach it.

**Sherry Cady**

Sherry completed 16 years of teaching at PSU and retired this past year to work in a research institute in the Tri-Cities of eastern Washington. Her research areas were the detection of microbial signatures (their formation and looking for them on rocky planets), biofilms, biomineralization, extraterrestrial analog deposits, and extreme ecosystem ecology. She taught classes in astrobiology, geomicrobiology, global biogeochemical cycles, biosedimentology, and Yellowstone field classes. She was the founder of the Astrobiology journal, and she has been the editor of it since its inception 15 years ago.

(editor)

**Mike Cummings**

I retired on August 31, 2014 after 35 years at Portland State. It was a fun ride filled with extremely interesting students and challenges. However, I’m glad to be retired and am excited to have played a role in hiring five outstanding new faculty. The department is in good hands! The great thing about retirement is doing what I want to do - sort of being a two year old again. I have two graduate students completing by spring 2015, Jon Weatherford and Al Mowbray. Jon is working on the Round Meadow system in the Walker Rim area and Al is working on Mickey Springs in the northern Alvord Valley. Al and I published a paper in the Geothermal Resource Council Proceedings on this work for the annual meeting of the GRC in Portland last September. Jon, Al, and I are waiting for a paper on the fens in the Walker Rim area to be published in the December Journal of Water Resources and Protection. I’m working on the geologic maps of the Walker Rim area where so many students gave pints of blood to keep the mosquitos happy (and away from me). I’m enjoying having time to dig through piles of field notes and to think about how all those volcanic rocks are arranged beneath the pile of pumice. My plan is to continue this research. Rick Hugo and I received another grant to work with rural school districts in eastern Oregon. I really missed visiting the districts during the gap in funding in 2013-
2014 academic year. We are now funded until the end of September, 2015. We're starting to look at the next proposal which will probably be due at the end of April. I'm singing again. This time in the PSU Community Chorus which meets for an hour on Tuesday and Thursday at noon. For now this chorus meets my time and interests, but I may do some exploring next fall. Do I miss being in the Department? That is a difficult question. I don't miss grading papers and going to meetings, but I miss the students. Doing academic advising took a lot of time, but I enjoyed working with students as careers began to bloom. For those experiences, I'm very grateful. I hope this finds you all healthy and happy.

Christina Hulbe

Tena koe from 46 S, 170 E!

Nearly two years ago, my family moved to Aoteaora, New Zealand so that I could take up a new job at the University of Otago and so that we all could have some new adventures and opportunities.

We live in Dunedin, a small city with a large university, at the end of a long harbour, with the wide Pacific to the east and farms and forests nearly everywhere else. We hear both native birds singing and sheep bleating from our porch. The subtropical front curves right up around the southeast part of Te Waipounamu, the south island, so the ocean is rich and exciting and we get just a hint of what the mighty Southern Ocean can throw at you. We’re enjoying the small city life, adjusting to the fact that shops close and people go home at the end of the day, and learning to participate in all the strange local customs (lawn bowls, cricket, the fact that tea might be either actual tea or dinner). The first European settlers in Dunedin were, as the name reveals, Scots, so we also enjoy an abundance of highly skilled pipe bands—most excellent.

I came here to join the faculty of the National School of Surveying as Professor and Dean of the School. Our programmes embrace land and cadastral surveying, planning and development, and GIS/geospatial science. I fit in with the geospatial crowd and teach a large introductory geospatial and survey maths class, as well as modules in other Surveying classes (geospatial) and in Marine Science (southern ocean and Antarctica). I must admit that I miss teaching with differential equations—it’s all vectors now. This turns out to be a more fundamentally different point of view than you might expect. I miss PSU students too—they are a remarkably tuned in and motivated group—but I’m learning how to work with a more traditional student cohort here and I love them too. All in all, I’m adjusting.

I’ve started two new Antarctic research projects, including an interdisciplinary field programme that will start in 2015. Both involve undergraduate students in the research. I’m working with a PhD student whose interest is in the relationship between surveying education and the surveying profession. He’s conducted a number of interviews at other universities and my experience on a PSU School of Education PhD committee has been very helpful in this aspect of the project. Also in the “and now for something completely different” category, I have been collaborating on a “digital humanities” project involving the representation of geography in cartoons from the first World War with a colleague whose interests are in geovisualisation and cartography.

It’s been a good two years. I am finding the new challenges I wanted and have been able to use my varied skills to work constructively with others in the university community. Otago has a distinctly interdisciplinary, multicultural, and collegial culture, which folks here value and work to promote. Scott, Samuel, and Timothy enjoy living in a great small city, though of course we miss friends and places around Portland. We tell everybody, “if you must live in the U.S., Portland is the place to choose.”
Curt Peterson

Curt retired in June, 2014 after 25 years of teaching at PSU. He left his mark in Oregon by being a leader in research in the areas of sediment transport along the coasts, coastal dune dating and dynamics, paleotsunamis, late Holocene shorelines, marine placers, liquefaction, sedimentation in the estuaries, and sedimentation in the Lower Columbia Estuary. He and his graduate student, Mark Darienzo, are the ones who discovered and published the record of megathrust quakes along the Oregon coast and the associated co-seismic uplift and subsidence. He became a wizard with the use of GPR along the coastal dunes of Oregon. He was a co-leader of two Friends of the Pleistocene trips in Oregon along the coast. During his time at PSU, 21 MS and PhD students got a chance to complete their work under his guidance. Students loved his field trips to the coast – he really excelled teaching in the field. Curt and his wife, Carolyn, have moved back to Corvallis where they were both in graduate school in the 1980’s (editor)

Nancy

New Year Greetings to Geology Alums and Friends of the Department. The last couple of years brought many changes for Geology folks. Challenges? Bring ‘em on! Honestly, our future looks bright and I remain a proud member of Team Geology.

Graduates

**BS Geology 2012**
Thomas Denney
Molly Hermann
Emilly Hess
Niina Jamsja
Jessica Smith
Charles Davidshofer
Ashley Gardner
Hollie Heesacker
Kendall McFadden
Mollie Pontifex
Harold Shields
Brian Slaughter
Eric Stata
Christine Strand
Jonathan Weatherford

Corey Friedman
Matthew Lancaster
Adam Large
Cameron Tompkins
Leslie Mowbray
Justin Sunnarborg

**BS Geology 2013**
Steven Bernsen
Tami Christianson
Justin Crow
Sean Gallagher
Muciri Gatimu
Justin Hiester
Michael Jaggers
Robert Janzen
Paulina Kho
Rose Lavelle
Megan Masterson
James Melton
Eric Niskanen
Ann Stansbeary
Katherine Breen
Melissa Carley
Nicholas Gordon
Erik Shafer
Teresa Hanna
Kent Stallings
Brian Webb

**BS Geology 2014**
Brittany Justus
Jamee Buhr
Lori Davis
David Eibert
Karla Farley
Christopher French
Eric Head
Kit Johnson
Justin McCarley
Emily Neeson
Hillarie Sales
Andrew Sneddon
Deborah Theisen
Davita Weiss
Leah Young
Max Bordal
Matthew Gibson

**MS Geology 2012**
Kendra Williams
Mackenzie Keith
Ashley Van Hoose
Sarah Doliber
Joshua Heard
Advanced degrees in progress:

Katelin Alldritt – University of California – Davis (MS)
Steve Bernsen – New Mexico Tech - MS
Tim Blazina – Dartmouth – MS
Cindy Broderick, University of Geneva, Switzerland, Ph.D.
Christopher French – MS Applied Geology, University of Washington
Eric Head – MS, Northern Arizona University
Kevin Hughes: Illinois State U, MS hydrogeology
Patrick Hughes: University of Wyoming: M.S. (may have graduated)
Amie Lamb: University of Nevada – Reno - MS
Torrey Nyborg: Loma Linda University, Ph.D.
Zach Ostreicher: Ohio State University: Ph.D.
Sheryle Quinn: Portland State University: MS Civil Eng
Robin Smith, ETH University, Zurich, Switzerland, Ph.D.
Melinda Woods: Iowa State University, Ph.D.

Post-Doctoral Fellowships:

Jennifer Edmunson – NASA, Huntsville, Alabama
Matt Hoffman: Los Alamos National Labs, Los Alamos, New Mexico
Katie Leonard – CRES, University of Colorado, Boulder
Joshua Theule – (PhD, University of Grenoble):
Post-doc at Universityof Bolzano, Italy
(married with a daughter)

Consulting Firms and Other Geological Businesses (Portland unless mentioned):

Abbe Earth Science Consulting (Seattle): Tim Abbe
AMEC Salt Lake City: Charles Payton
AMEC Portland: Michelle Peterson, Robin Johnston, Joe Fazio, Joey Hammer, Larry Robinson, Stephen Barnett; Tracy Ricker
AMEC (Oklahoma): Lorraine Woxell
AMEC (Reno): John Wood
Anchor QEA, LLC: Jessica Goin
ARCADIS: Angela Timmons; Kendra Williams
ARL Technologies (WA): Dale Timmons (President)
Ash Creek Associates: Chris Sheridan, Sunny Simpkins

Teaching:

Diana Baker: Southridge High School
Dirk Baron – California State University – Bakersfield
Jen Berry – Cascade Academies Eastham High School (Oregon City) and ITT Tech
Keith Brunstad – SUNY – Oneota
Karen Carroll – Umpqua Community College, Roseburg
Dave Cordero: Lower Columbia Community College

PSU Geology Alumni – Where are they now?
2014 edition – 240 Alums!

2012

Matt Brunengo

2013

Ryan Cole
Tracey Ricker (Geology)
Anthony Bartruff
Chris Beard
Mason Fried
Justin Hiester
Courtney Savoie
Derrick Wagner
Phillip Marcy

2014

Jenna Erskine
Tamara Linde
Erin Dunbar
Matthew Lancaster
Kristy Scheper
Joshua Brokaway
Esther Pischel

Erica Medley
Tracey Ricker (Engineering Geology)
Fiona Seifert
Keith Olsen
James Randall

BS Earth Science 2012
Bradley Johnson
Candice Armijo
Thomas Eslinger

Advanced degrees in progress:

Carl Ebeling – (PhD at Northwestern): IRIS-IDA at Scripps Institute of Oceanography, UC San Diego
Frank Granshaw: Portland Community College, Portland State Geology Dept.
Jim Jackson: PSU Geology Dept
Bernice Lira: Portland Public Schools
Sean Marcott – University of Wisconsin, Madison
Mary Meek: Lower Columbia Community College
Beth Norman - Bellevue Community College
Thomas Nylen - Portland State University
Keith Olsen – Oregon State University
David Percy: PSU Geology Dept.
Ben Perkins: PSU Geology Dept.
Christian Poppeliers – Augustana State University (GA)
Thom Powell: Robert Gray Middle School
Chad Pritchard – Eastern Washington University
Sam Rigby: Georgetown University
Kay Savage – Wofford University
Robert Schlichting: Cleveland High School
Ashley Van Hoose – University of Auckland
Tim Youngberg: Tualatin High School
Sheryl Zinsli: Tesoro High School, Capistrano, CA

Post-Doctoral Fellowships:

Jennifer Edmunson – NASA, Huntsville, Alabama
Matt Hoffman: Los Alamos National Labs, Los Alamos, New Mexico
Katie Leonard – CRES, University of Colorado, Boulder
Joshua Theule – (PhD, University of Grenoble):
Post-doc at Universityof Bolzano, Italy
(married with a daughter)

Consulting Firms and Other Geological Businesses (Portland unless mentioned):

Abbe Earth Science Consulting (Seattle): Tim Abbe
AMEC Salt Lake City: Charles Payton
AMEC Portland: Michelle Peterson, Robin Johnston, Joe Fazio, Joey Hammer, Larry Robinson, Stephen Barnett; Tracy Ricker
AMEC (Oklahoma): Lorraine Woxell
AMEC (Reno): John Wood
Anchor QEA, LLC: Jessica Goin
ARCADIS: Angela Timmons; Kendra Williams
ARL Technologies (WA): Dale Timmons (President)
Ash Creek Associates: Chris Sheridan, Sunny Simpkins
Aspect Consulting (Bainbridge Island): Gus Leger
Avista (Spokane): Meg Lunney
Ballard Diving and Salvage: Brian Haug
Bridgewater Environmental: Anna St. John
Brown and Caldwell – Sarah Doliber
Canrig Technologies (LA): Harry Bley
C&C Technologies (Houston): Anna Pilette
Cascade Radon – Tamara Linde, Deborah Theisen
Columbia Geoscience: Al Waibel
Conoco-Phillips (Anchorage): Catherine Rosos
Cornforth Consultants: Darren Beckstrand
Dawood Engineering (Harrisburg, PA): Jason Taylor
Del Sol Group Environmental (Los Angeles): Christy Lee Confar
Destiny Resources (Denver): Randy Thompson
Earth Dynamics Inc: Michael Feves
ERM West Inc: Jennifer Baptist, Christy Confar (Irvine office)
EVREN Northwest Inc.: Lynn Green
Exxon-Mobil: Joann Welton
Foundation Engineering (Corvallis): Brooke Fiederowicz Running
FSR Engineering: Rex Whistler
G2 Associates: John Gray
Geocon Northwest: Kevin Schleه
Geoengineers (Seattle): Chip Barnett
Geodesign: Charlie Clough, Paul Trone
Geopacific: Beth Rapp
Geoenvironmental and Geologic Services: Richard Kent
Geotechnical Support Services (Newport Beach) – Alexander “Sandy” Jack (1977)
GIS Jobs LLC (Idaho): Jacob Mundt
GSI Water Solutions, Inc: Dennis Nelson
Golder Associates: Aaron Fox; Kenny Jansen
Groundwater Solutions: Jason Melady
Hahn Associates: Charlotte Berghoffer
Halliburton (NV): Troy Blackledge
Hart Crowser: Connie Taylor, Leon Lahiere, Tim Blackwood
Lawes; Jeff Wilson
Hart Crowser (Seattle): Audra Inglish, Phil Cordell, Jon Eben
HCTasca (Denver): Braden Hanna
Henderson Land Services: Shawn Contreras
Herb Schlicker and Associates: Doug Gless,
HGL Inc (Herndon, VA): Brett Broderson
ICD High Performance Coatings (Vancouver): Kristi Vockler, CEO
Infinera (Sunnyvale, CA): Scott Craig (’93)
Integral Consulting: Erin Dodak
Intera (Tri-Cities): Terry Tolan (Senior Hydrogeologist)
JBA: (Maryland): Bill Burris – chief environmental compliance coordinator
Jacobs Associates: Sue Bednarz
Johnson Land Surveying: Karen Boelling
Kadri Consulting: Moin Kadri (Seattle)
Kleinfelder (Beaverton): Rafiq Khandoker
Ken Neal Consulting (Olympia): Ken Neal
Landau Associates: Heather Easterly Nielsen, Erin Temple
Larrett Consulting: Richard Larrett
Malcolm Pirnie (Tuscon, AZ): Mark Groseclose
Major Drilling: Terry Jacques
Marsha Simon – Veterinarian (class of 1994)
Maul Foster and Alongi: Brian Johnston, Emily Jenkins Hess, Courtney Savoie
Mobile Concrete (Casper, WY): Paul Beeson
Mt. St. Helens Institute: William Cheeks
Neil Shaw Consulting: Neil Shaw,
Newmont Mining (NV): Ben Hinkle, Zeitel Gray, Aspen Gillam
Northwest Natural: Todd Thomas
Of Hops and Men: Brian Haug
Onyx Environmental: Sam Fetters
PBS Environmental: Dulci Berry, Scott Braunsten
Doann Hamilton
PBSJ (Montana): Robin Smith
Pike Energy Solutions, Inc.: Dave Rankin
PNL Technologies (Tri-Cities): Evan Arenson
PSI: Tima Carlson , Jennifer Lind
Pacific Agricultural Lab: Jennifer Sloan Cimparman
Pacific Habitat Services: Shawn Eisner
PacificCorps: Eric Nielsens,
Parametric: Mike Marshall, Adam Romy
Quantum Spatial: Justin Ohslager, Josh Brockaway,
Adan Large, Heather Hurtado, Brian Snook
Raytheon Polar Corporation: Nicolle Alhedef
Ray Reese Volkswagen: Steve Simmons
Reclaiming Futures: Annie Donehey
Redfern Consulting: Roger Redfern
Senergy Energy (Houston): Marina Drazba
SETI Institute – Niki Parenteau
Shannon and Wilson: Kim Elliott, Rachel Pirot
Shannon and Wilson (Tacoma): Annie Watkins
Engineering Geology Firm in New York: Lynn Viescas
Snyder & Wilson (Van Nys, CA): Sean Wilson
StrategIQ Commerce (Chicago): Bob Janzen
TJW John – Amy Staples
Terra-Min Exploration (Tuscon): Stuart Ashbaugh
URS: Ivan Wong
Vista Engineering (WA): Eileen Webb
Voelcker Environmental (England): Corey Rasphone
Weyerhauser – Jason Hinkle
World Wide Realty: Kathy Duhon

Agencies:
Alaska Dept. of Env. Conservation: Charley Palmer
Alaska DOT: Hiram Henry
BPA: Eve James
BLM: Tim Barnes, Brent Cunderla (Wenatchee), Greta Burles (Coos Bay)
California Geological Survey (Redding): Don Lindsay
California Water Resources ((Sacramento): Adam Jones
City of Portland BES: Taryn Meyer, Aaron Wieting, Erica Koss
City of Lake Havasu: Doyle Wilson, Director of Public Utilities
City of Vancouver: Dorie Sutton
   (Water Quality Monitoring and Assessment)
DEQ Portland: Ken Cameron, David Cole, Don Pettit
Department of Ecology (Olympia, WA): Jennifer Lind
DOGAMI: Bill Burns, Kate Mickelson
Federal Highway Administration: (FHWA):
   Dave Lofgren, Doug Anderson
Mine Safety and Health Administration (Seattle):
   Josh Mathiesen
Hanford Nuclear Reservation: Mark Byrnes
Multnomah County Planning: Adam Barber
National Geodedic Survey: Jake Griffiths
National Park Service: Peggy Bohan
Natural Resource Conservation Service
   (Snow Surveys): Jonathan White
Oklahoma Water Resources Board – Derrick Wagner
Oregon Dept. of Health: Dennis Nelson
Oregon Dept. Human Resources: St. Helens: Ann Stansberry
Oregon Dept. of State Lands: Gloria Holthaus Kiryuta
Oregon Dept. Water Resources: Ken Lite, Ned Gates,
   Josh Hackett, Darrick Boschman
ODOT: Dave Taylor, Tom Braibish, Doug Marsh,
   Fred Gullixson, Sue D’Agnese,
   Bernie Kleutsch, Curran Molney, Stephen Hay
Pacific County GIS (WA): Mark Scott
City of Salem: Stephanie Eisner
Umatilla Basin Watershed Council: Debra Doyle
US Army Corps of Engineers: David Scofield,
   Mike Moran, Chris Humphrey, Adam Jones (Chicago)
   (married to Kristin with son Neil); Amy Ebnet
   (Seattle); Erica Medley (West Virginia)
US Bureau of Reclamation: Tess Harden
US Fish and Wildlife Service – Madison, WI: Rusty Griffin
   (Hydric Soils Specialist)
US Forest Service: Rodney Lentz, Steve Kenitz
   (Pinchot NF), Ryan Cole
USGS CVO: Julie Griswold, Ed Brown, Adam Mosbrucker
USGS Colorado: Tristan Welman
USGS Oregon Water Resources: Marshall Gannett,
   Steve Sobiesczyk, Heather Bragg; Mackenzie Keith,
   Charlie Cannon
USGS (Anchorage): Jeff Conaway,
USGS (AZ): Margot Truini, Nora Berggren Herrera
Vancouver (Clark County): Ian Wigger
Washington DOT: Doug Anderson
Washington DNR: David Norman (State Geologist), Tom Boyd
Washington County Roads: John Kuppler
Retired:
   Daniel Aiken (PSU 1971: 30 years in exploration mining,
       Tucson, Arizona)
   Jon Bounds
   Ardy Callender
   John Doerr
   Larry Growney
   Nancy Ketrenos
   Tom Koler – now spends time as Garbanzo the Clown
       (wife is Beanie the Clown)
   Carol Stack (3 grandchildren!)
   Kerry Stephany
   Jack Pigg West
Deceased:
   Dave Brown (class of ’77; was groundwater specialist in Vancouver)
   Walt Barker (class of ’82)
   Larry Chitwood
   Gene Pierson