Department News

The 2011/2012 academic year is off to a good start with record enrollment in the Geology junior year core courses (Processes in the Surface Environment in the fall term and Mineralogy in winter). These classes have been growing steadily for the last few years and have now reached capacity. We are pleased to see this growth in the program and will be thinking carefully about how to maintain a high quality experience for students as we move forward.

Our undergraduate degree options expanded in 2010 to include a BS/BA in Earth Science. The program is designed with the flexibility to include courses in biology and environmental science and parallels the Integrated Science program for students preparing for careers in secondary teaching in public schools.

The progress of time also sometimes brings sad tidings, and it is with a mixture of pride in their accomplishments and sorrow at our loss that we share news of the passing of two Emeriti, Gene Pierson and Tom Benson.

Gene Pierson (1937 to 2010)

Gene Pierson, Emeritus Staff Geologist, passed away November 16th, 2010. Gene became Staff Geologist in 1966 and was an essential part of our growth through the 1970s and 80s. He will be remembered fondly for his concern about student success and his enthusiastic participation in department field trips. Rafting with Tom Benson, field camps, the San Andreas Fault trip with Tom and Ansel Johnson, many trips to Hawaii, the list is long and includes many of you.

In honor of Gene’s contributions to PSU Geology, the Gene Pierson Memorial Field Trip Fund has been created in the PSU Foundation. Recognizing both Gene’s enthusiasm for field experiences in the Geology curriculum and the financial challenge field trips pose for some of our students, the new Fund will be used to facilitate participation in field trips associated with courses in the geology curriculum.

Tom Benson (1929 to 2011)

Dr. Tom Benson, Professor Emeritus, passed away January 24th, 2011. Tom earned his undergraduate degree at Stanford and from there went to work as a geologist for Texaco. Earning his PhD in Geology at Yale, Tom began his teaching career in 1962 at the University of Oregon. Arriving at Portland State in 1968, he quickly became an active participant in the life of the department, leading field trips and founding the undergraduate honors program. Tom mentored generations of students as they worked their way from intro geology, through structure and air photo interpretation, and finally integrating it all in field camp. PSU Geology hit prime time thanks to Tom’s efforts to get out the geology news during the 1980 eruption of Mt. St. Helens. Tom retired in 1991. We look back with fond memories at Tom’s many contributions to Geology at Portland State.

Welcome

We are pleased to welcome a number of new colleagues with various affiliations to the Department of Geology.

Dr. Herman Zimmerman, former Director of the Division of Earth Sciences at NSF, retired to Portland and we are happy to offer him an office and appointment as Adjunct Research Faculty. He is already helping us plan for the upcoming Scientific Committee on Antarctic
Research meetings and we look forward to other projects in the future.

Jon Fink joined the PSU administration in 2010 as Vice President for Research and Strategic Partnerships and we are pleased to add him to the roster here in Geology. With research interests in volcanology and planetary geology, Jon fits right in.

We also welcomed Rob McCaffrey to our research faculty ranks in 2010. Rob was a member of the Rensselaer Polytechnic Institute (RPI) faculty for 22 years before taking early retirement from teaching and moving to Hood River with his family. He continues with geophysical research, focussing on the active tectonics of the Pacific Northwest, specifically rates of crustal faulting and the potential of the Cascadia subduction zone for producing large, damaging earthquakes. He is part of the collaborative effort to make comprehensive field measurements of crustal deformation in Oregon, Washington and Idaho using GPS. Rob is already engaging PSU Geology students in his research program.

This year we made room for one more, Marc Kramer of the US Forest Service. Marc’s research addresses interactions among Earth’s climate, biosphere and pedosphere, in particular, mechanisms of carbon stabilization in soil and the biogeochemical effects of winds on the Earth’s surface. Marc’s arrival, Scott Burns’ ongoing research, and student lab needs are together inspiring us to think carefully about how to expand our soils lab space in the next few years. If you’ve visited the sub-basement in Cramer Hall lately you know this will require some very creative thinking.

Well-deserved Accolades

Scott Burns is the recipient of two prestigious awards, both richly deserved. He was named the 2011-2012 AEG and GSA Richard Jahns Distinguished Lecturer in Engineering Geology and is already regaling us with stories from the campuses he’s visited on tour. Scott was also given the 2011 GSA Public Service Award. Scott is in illustrious company in both cases. A sentence from Scott’s acceptance speech at the GSA Annual Meeting in Minneapolis sums up his attitude and makes it clear why he won these awards: “Mother Nature is shouting out to all of us all of the time – get out and talk to her!”

Cascadia Meteorite Laboratory

The lab’s outreach program led to two formal public press releases in 2010, reporting on the discovery of Oregon’s fifth and sixth meteorites, Morrow County and Fitzwater Pass. These were reported nationally and on the first page of the Oregonian.

Dick Pugh, who leads the lab’s outreach effort, has been receiving accolades for his informal education activities. Dick received the 2011 Service Award of the Meteoritical Society this past summer in Greenwich, England; he also received the 2010 service award from the Oregon Science Teachers Association, and an award in 2011 from Sigma Xi for lifetime achievements. Those who are familiar with Dick’s passion for informal education and outreach know that he richly deserves the recognition.

Dick Pugh (left) with Meteoritical Society president Ed Scott, at the MetSoc meeting in New York, 2010.

Finally, lab personnel have been successful in getting papers published. Melinda Hutson broke out on her own from the lab and joined with three others to publish a paper on the physical and chemical properties of enstatite chondrites (Macke et al., 2010). Melinda and lab director Alex Ruzicka reported early last year on silicate-bearing iron meteorites (Ruzicka and Hutson, 2010) and have an additional two papers in press on  
protochondrules in ordinary chondrites and amoeboid olivine aggregates in carbonaceous chondrites (Ruzicka, Floss and Hutson, 2011a, b), and Alex and student Niina Jamsja published a report on an unusual meteorite first studied at PSU (Jamsja and Ruzicka, 2010).

Trace Element Analytical Lab

We are pleased to announce the acquisition of a new ICP-OES (inductively coupled plasma optical emission spectrometry: elemental analysis to part-per-billion levels) for the Trace Element Analytical Laboratory in June. We’ve had four users from Geology and Environmental Science doing thesis work including groundwater analysis, soil, and rock leachates, since the machine was installed.

Antarctic Scientists in Portland

July 2012

Portland State University and PSU Geology will host the 2012 biennial meetings of the Scientific Committee on Antarctic Research (SCAR) in July of 2012. SCAR is an inter-disciplinary committee of the International Council for Science charged with initiating, developing and coordinating international scientific research in
the Antarctic region. SCAR also provides independent scientific advice to the Antarctic Treaty Consultative Meetings and other organizations on issues of science and conservation affecting the management of Antarctica and the Southern Ocean. The meeting will bring deleagations from the 41 treaty nations and an international cast of scientists and logistics planners to Portland for two weeks of presentations and discussions.

Andrew Fountain and Christina Hulbe co-chair the Local Organizing Committee, with the help of faculty, staff, and students from accross campus. More information is available at the meeting website http://scar2012.geol.pdx.edu/

Faculty News

Dr. Scott Burns The past two years have been busy but very rewarding! I just finished my 41st year teaching at the university level, and it still continues to be exciting! I still remember well my first year as a young assistant professor in Switzerland in 1970! On the home front, my wife Glenda graduated from PSU with a BA in International Studies with minors in Canadian Studies and teaching English as a second language. Graduation was a big event! I also had 5 wonderful MS students finish up – Rachel Pirot, Steve Sobiesczyk, Kate Mickelson, Serin Duplantis, and Kendra Williams – very proud of all of them! They won many national awards, wrote super theses, and are all employed in geology! I still have 8 students in my research group and hope to get most of them completed this year: Jim Randall (Red Bluff Landslide), Keith Olson (Mt. St. Helens debris flows), Erica Medley (Ancient Cataclysmic Floods), Tracy Ricker (Arsenic in soils), Ryan Cole (slope stability in the West Hills), Kat Barnard (Terroir), Nate Smith (Cascadia), and Mike Marshall (landslide creep on two Panther Creek landslides). I am also helping with Josh Heard’s glacial geology thesis in the Goat Rocks Wilderness area.

I have been working for 12 years to get a bill through the legislature: Oregon State Soil, the Jory Series. I finally succeeded in May, and we now have a state soil! I revised the book, Cataclysms on the Columbia: The Great Missoula Floods, it has sold well, and is already into its second printing. My co-author is Marjorie Burns, a retired English Professor at PSU and a great friend (no relation though). I continue to be involved in different organizations and held the following positions: president of downtown Rotary in Portland (one of largest clubs in the world and we just turned 100), treasurer of the QGG division of GSA, AEG Foundation board, vice president of IAE and board of Oregon Association of Environmental Professionals. I was recently elected president of the International Landslide Research Group and will put on a 10 day landslide field conference in Oregon and Washington in 2014 for the group. I continue to be an associate editor for Earth Magazine and have an article coming out next month on the Christchurch earthquake. I continue to consult on landslides and have been an expert witness in 5 law cases the past year. I got a chance to attend many conferences this past two years and presented 18 talks. I continue to teach for Stanford University each summer and have taught summer short courses in Switzerland, Italian Dolomites, and British Columbia. I was very lucky at the GSA meeting this year because I won two awards: the GSA Public Service Award and the Richard Jahns Distinguished Lecture Award. I will spend the rest my sabbatical year this year traveling around the country talking giving Jahns lectures about applied geology to different university departments and professional groups.

Drop by the department and say hi!

Dr. Sherry Cady As usual, a very busy summer that was also highly productive thanks to the talents and persistence of my co-authors. Papers published this year include “Potential Fossil Endoliths in Vesicular Pillow Basalt, Coral Patch Seamount, Eastern North Atlantic Ocean” by Cavallazzi et al.; The Role of Extracellular Polymeric Substances in the Silicification of Calothrix: Evidence from Microrgan Mat Communities in Hot Springs at Yellowstone National Park, USA by Hugo et al.; and “A Historical Overview of the Pavilion Lake Research Project – Analog Science and Exploration in an Underwater Environment” by Lim et al.. In addition to my duties as Editor-in-Chief of the scientific peer-reviewed journal Astrobiology, I also co-organized a special collection of papers this year for the journal on the topic of “Volcanic Environments and Astrobiology,” based on talks given at a session of the 2010 Astrobiology Science Conference meeting. I’m still heavily involved in teaching two summer STEM (Science, Technology, Engineering, and Mathematics) middle and high school teacher professional development courses – one taught in Yellowstone National Park called “Mars Analogs in Yellowstone” and one at Beaverton School Districts Health and Science middle/high school called Project Nano (Nanoscience and Nanotechnology Outreach). I enjoy teaching my fall courses, which include the university studies course “Life in the Universe” and a new course “Biosedimentology,” which I’m offering for the first time. The lab is filling out again after a brief closure this summer, during which time our space was modified to bring a part of Alex Ruzicka’s lab back to Cramer Hall and to open up some space to accommodate future optical microscopy-based classes in the lab. Current members of the GEM Laboratory include...
Dr. Ken Cruikshank  I’ve been back in the role of Graduate Coordinator (also known as Chair of the Graduate Committee) for a year now. The online thesis database ([http://geomechanics.geology.pdx.edu/geolinq/](http://geomechanics.geology.pdx.edu/geolinq/)) seems to be a success. On average we get 2 to 3 unique visitors per day and it seems to be a great way to show the world what we are doing at PSU. I hope to get more datasets on the site as time permits.

Dr. Michael Cummings  Geologic mapping and hydrogeologic studies continue in the Klamath basin. We are now at the northern edge of the basin and working with the Forest Service and The Nature Conservancy on groundwater/surface water interactions in the thick pumice deposits. Ground water dependent ecosystems are the focus of attention. Alumnus Roger Congdon, Forest Service Centralized National Operations, is providing ground water models for these very interesting systems.


Advising undergraduate students is an important task that I do. The number of advisees has been steadily growing particularly during the last three years. In addition to the geology and earth science majors I advise for our four minor programs (geology, environmental geology, space and planetary science, and computer applications). I also advise students preparing for careers in teaching at the secondary level. Helping students develop programs of study that minimize the cost is my greatest joy. In graduate advising, Tony Bartruff is working on tufa mounds at the north end of Lake Abert for his MS degree. As more mounds are discovered, more questions keep coming up.

My partnership with thirty-two school districts in eastern Oregon continues for the 10th year. The 2011 summer workshop was located on the east flank of the Cascades between Newberry volcano and Maupin. We spent a wild morning rafting the Deschutes River – great time!

Dr. Andrew G. Fountain  As of September 1, 2011, I am no longer department chair. While it is an august and honored position, it was tough, particularly in these times of dwindling resources and increasing stress among us all at PSU. While I am pleased with some of our accomplishments and disappointed that other goals remain, frankly, its great being out of the hot seat. My teaching and research suffered and my student advising was languishing.

Ok, so for the past summer, I had a brief visit to Edinburgh, Scotland for a symposium on Antarctic Earth Science. Although I was there only a few days, it was a great meeting, met with good colleagues, and had a chance to walk around town a bit. On the return, I spent several days in the Finger Lakes region touring the glacially-carved terrain. Interesting place. I was fortunate to have a personal guide for the region around Ithaca, NY – Art Bloom, retired from Cornell Geology Department and author of a textbook entitled, ‘Geomorphology’.

Unfortunately, I had to bail out of Cycle Oregon this year, but partially made up for it with a 3-day trip to Collier Glacier on Middle Sister with a few USGS folks, including Jim O’Connor, a few graduate students from University of Oregon, and a few of my own students. In addition, we had a film crew from OPB’s Oregon Field Guide. The weather was terrific and we all had a good time. Two weeks later, I was down to the Sierra visiting the Dana Glacier, just off Tioga Pass. Great country down there. I had never seen the glacier before but had seen lots of photos, so it was nice to get there. Finally, I took a one-day class trip up to Elliot Glacier on Mt. Hood. Although the forecast was for rain and the sky didn’t look good, we kept driving and in the end it all worked out. Cloud level was above much of the glacier, no rain, and fairly warm temperatures. It completed the trifecta of good glacier trips.

Dr. Rick Hugo  This past year has been a busy one, with the installation of a new Scanning Electron Microscope. This was funded by an NSF-Major Instrumentation grant I received last year. The new instrument is fabulous! We can now do analytical work that approaches the quality of a microprobe while still being able to take high resolution images of hand samples and Geomicrobiological specimens, even ones...
that aren't covered with the usual conductive coating. I'm currently training graduate and undergraduate students from the labs of Martin Streck, Sherry Cady, Alex Ruzicka, and Ben Perkins. In another major project, I'm doing Transmission Electron Microscopy on meteorite specimens with Alex Ruzicka. We're looking at deformation microstructures (dislocations) to understand the peak shock temperatures and pressures these specimens were subjected to during the formation of the solar system. As part of this grant, Alex and I have written a grant proposal to acquire a major SEM accessory, an Electron Backscatter Diffraction detector, which will allow us to do crystallography with an SEM. In addition to this pending grant I've got smaller unfunded projects going with Martin, Ben and Sherry which could lead to future grants, so I've got most of my fingers crossed most of the time. As for courses, this year I'm teaching the SEM course, 200-level Global Environmental Change, and my Senior Capstone course Science Inquiry in the Outdoor Classroom.

Dr. Christina Hulbe (chair) Andrew is out of the hot seat and I am in. I am looking forward to working more closely with my colleagues, our students, and alumni to support Geology at PSU. These are interesting times on campus, with changes in leadership and management strategies set in a context of enrollment growth and profound economic challenges. It's a good time to speak up for the importance of disciplinary expertise and the role of the geosciences in meeting the challenges of the 21st century, from managing finite resources to preparing for the consequences of global warming. It's a good time to be proud to be a part of PSU Geology: our undergraduate program is growing, our new BS/BA in Earth Science is taking off, and our graduate students are engaged in interesting and important research.

The past year has been productive, though not always in ways I would have expected. Scott Waibel defended his MS thesis, a study of changes to runoff and groundwater recharge in the Deschutes basin under different global warming scenarios. The project was a collaboration with Marshall Gannett (MS 1982) at the USGS Oregon Water Science Center. I will go to my grave swearing that I know nothing about groundwater (and that will be largely true) but this is the third thesis I've advised that in some way involved aquifers. More novel than groundwater, I published a history paper last year, titled Women in glaciology, a historical perspective. The research for this invited contribution to the 200th issue of the Journal of Glaciology was work of a new kind and I enjoyed it very much.

My family spent a month on the road this summer, camping our way from Oregon Caves to Glacier National Park, via the Grand Canyon. We talked a lot about water, agriculture, the history of people on the landscape, and the geologic evolution of the landscape as we made our way through the west. We returned to Portland in time for the Brewer's Festival and then headed up to Tilly Jane the next weekend, for our annual walk up Cooper Spur. Our tent pitching skills are finely honed and the boys (almost 8 now) can hike a long, long way.

Robin Johnston (MS 2004) volunteered to help organize more frequent alumni social events and we'll let you know what we come up with. I imagine it will involve a pub.

Dr. Ben Perkins This summer saw the graduation of two of my graduate advisees, Josh Hackett and Gus Leger. On the research end of things, I am currently working with MS student Derrick Wagner and the NRCs on a groundwater study in southeastern Columbia County and another student, Cullen Jones and Ken Late with the OWRD on a continuing groundwater study near Mosier. This year, I'll also be working with Esther Duggan and Marshall Gannett with the USGS on a study in the Klamath Basin. Courtney Savoie, who joined our graduate student ranks in January, began her investigation of the release of arsenic from tuffs (with some help from Martin), likely an important contributor to elevated groundwater arsenic levels in many parts of the world, including here in Oregon. I am still working with the Idaho National Laboratory and colleagues in Kentucky on mineralogical changes and water quality issues related to oil shale processing. And I continue to dabble in paleoceanography, most recently with a colleague at the USGS in Menlo Park exploring the potential of phosphate nodule chemistry as a proxy for ancient ocean conditions.

Dr. Alex Ruzicka As usual the passage of another year brings memories of what seems like a very full period of research, mentoring, teaching, and raising twins. This year, I am finishing one major funded research project (olivine aggregates) which is keeping me busy writing papers. I am happy to report success in obtaining NASA funding for another project, this one concerning the shock histories of chondrites. A major part of the shock study involves use of the HR-TEM on campus, and Rick Hugo is leading that aspect of the project. For the last couple of years I have been advising graduate students Kristy Hauver and T.J. Schepker and undergraduate student Niina Jansja. Niina was the lead author of a peer-reviewed article, and she has received additional accolades in the form of a S5K Space Grant Research Scholarship and an Honorable Mention for the prestigious Nininger Meteorite Award. I am happy to welcome three new students, including graduate student Katherine Armstrong and undergraduate students Ryan Brown and Ann Stansbeary. Ryan took the lead in creating a nice display on meteorites in our central hallway.

I am completing my second year of service on the
Nomenclature Committee of the Meteoritical Society, which is regarded by some to be the most important committee of the Society, as it is charged with the formal approval of new meteorites from across the world. I am completing my third year of service on the Membership Committee of the Society and will be its new chair starting in January 2012. Additionally, I am finishing my third year as an Associate Editor for *Meteoritics and Planetary Science*. Finally, my twins (Catherine and Christopher, 4 ½ years old) have joined daddy on a few hikes and I have discovered that the stubbornness that can cause grief under most circumstances comes in real handy here, as they won’t quit a hike until they’ve gone to the end and back. I’ve been making the hikes more challenging, and on the last one, those small legs were able to propel the twins up and down 500 feet over 3 miles.

**Student News**

**Department Award Winners**
At the beginning of spring term, academic excellence scholarships are awarded to students with sophomore and junior standing in our core curriculum. At the end of the academic year we have the pleasure of announcing more awards, for scholarly and service activities. Funds for these awards are from the Beeson, Howell, McKee, Rockie, and van Atta Endowments.

**Undergraduate Academic Excellence**

- **2010**
  - Patrick Baker
  - Esther Duggan
  - Brooke Jones
  - Courtney Savoie
  - Jonathan Weatherford
  - Kathy Breen
  - Niina Jamsja
  - Stacy Peltier
  - Erin Temple
  - Liz Westby

- **2011**
  - Kathy Breen
  - Tami Christianson
  - Sean Gallagher
  - Emily Jenkins
  - Matt Lancaster
  - Adam Mosbrucker
  - Harold Shields
  - Eric Strata
  - Liz Westby
  - Katharyn Woods

**Edith R. and William A. Rockie outstanding graduate award**

- Josh Brockway (2010)
- Erin Dunbar (2010)
- Adam Mosbrucker (2011)

**John E. Allen Award**

- Erin Dunbar (2010)
- Erin Temple (2011)

**National Award Winners**

Serin Duplantis won the Shlemon Scholarship in engineering geology (GSA) and the Howard Award in Quaternary Geology and Geomorphology (GSA) in 2010. Rachel Pirot won the highest AEG award for graduate students, the Marliave Award, in 2010. Mazama Research Grants were won by Josh Heard, Kendra Williams, Serin Duplantis, and Rachel Pirot.

**Congratulations Graduates!**
We missed sending you a newsletter last fall so this year’s list of new graduates spans two years.

**Geology degrees**

- **2009/2010**
  - Joshua Brockway
  - Esther Duggan
  - Erin Dunbar
  - Brooke Jones
  - Shana Kendall
  - Phillip Marcy
  - Stacy Olivier
  - Elizabeth Paulson
  - Jonathan White

- **2010/2011**
  - Kimberly DeGrandpre
  - Brian Johnson
  - Geoffrey Kahl
  - Matthew Poole
  - Amy Staples
  - Christopher Benn
  - Courtney Savoie
  - Rachel Secrest
  - Luke Raymond
  - Kurt Schmidt
  - Erin Temple
  - Jennifer Thurin
  - Russell Tunes
  - Elizabeth Westby

**Earth Science degrees**

- **2010/2011**
  - Adam Mosbrucker
  - Katharyn Woods

**MS degrees**

- **2009/2010**
  - Hollie Oakes-Miller
  - Christopher Sheridan
  - Matthew Brown
  - Jonathan Ebnet
  - Rachel Pirot

- **2010/2011**
  - Serin Duplantis
Thank You

The Department of Geology wouldn’t be the same without alumni involvement. Mentoring students, giving guest lectures in our classes, attending our public lectures and social events, and of course donating to our various PSU Foundation accounts, it all enhances our students’ academic experience and our own professional experience. Thanks to everybody who has donated to the department over the past two years.

An award from the Reka and F. Frank, M.D., Gabor Geological Sciences Research Fund was made this year to Assistant Professor Ben Perkins (PhD 2000) for upgrades to the Trace Element Analysis Lab. Awards to PSU Geology students are reported elsewhere in this newsletter.

Geology Department Foundation Account
Thomas Alexander  Scott Burns
Arden Callender  Frank Caramanica
Stephen Carlson  Kenneth Cruikshank
Marina Drazba  Christianna Elingson
Thomas Fouch  Russell Grate
Sarah Gregory  Philip Grubaugh
Bruce Henderson  Michael Jackson
Bernard Kleutsch  David Lofgren
Eric Nielsen  Janet Rasmussen
Ronald Skinner  Marilyn Sweeny-Hajicek
Todd Thomas  Joanna Welton
Matt Wilkening  Gilbert T. Benson Trust
Eleanor Lloyd Dees Foundation
Exxon Mobil Foundation

John Eliot Allen Endowment Scholarship
Scott Burns
Patricia Kelley
David Cordero
Robert D Miller Consulting
Paul Hammond
Catherine Ellis

Marvin Beeson Undergraduate Research Award Endowment
Dirk Baron  Susan Bednarz
Julie Clark  Roger Congdon
David Cordero  Marshall Gannett
Michael Jackson  Nancy Ketrenos

Leon Lahiere  Richard Marty
Kenneth Neal  Eric Nielsen
Virginia Rohay  Susan Timm
Beverly Vogt  Susan Wacobster
Lorraine Wolf  Kendra Williams
Eleanor Lloyd Dees Foundation
Plateau Geoscience Group LLC

Terry D. Jones Speaker Fund
Sharon Bradenac
Michael Feves
Paul Fowler
James Jackson
Beverly Vogt

John & Miriam McKee Endowment
Marshall Gannett
Kenneth Neal

Gene Pierson Field Trip Fund
Dianne Alves  Marion Barber
Sheila Barton  Debbie Boldrick
Matthew Brunengo  Scott Burns
Margaret DeLacy  Nancy Eriksson
Christina Hulbe  James Jackson
Ansel Johnson  Robin Johnston
Leon Lahture  Holly Marlatt
Robert Perkins  Richard Pugh
Alex Ruzicka  Yvette Saarinen
Lawrence Sawyer  Steven Simmons
Beverly Vogt

Edwin T. Hodge Lectureship
David Cordero

Gwen Burns Endowment for Graduate Fellows in Geology
Gwenn Burns

Robert Van Atta Geology Endowment
Roger Congdon
Clay Kelleher
Leon Lahiure
Plateau Geoscience Group LLC

Field Camp Scholarship
Dulcy Berri  Dorinda Himes
Charles Hoffman  Richard Marty
Kenneth Neal  Wallace Walling
Geological Society of the Oregon Country

Erwin F. Lange Endowment
Bruce Bonnell  Diane Bushell
Heather Campbell  Caroline Distasio
Sue Dyer  Oliver Edes
Norman Eng  Barney Ensigh
Jack Foster  Ruben Gloria
Carolyn Hail  Michael Hendricks
Christine Mackert  E. Matson
Douglas McCarty  Ben Neumayer
David Osgood  Ruth Prickett
Richard Pugh  Barbara Pugh
Billy Stoddard  Barbara Stross
Alumni News
PSU Geology Alumni – where are they now?
2011 edition

Advanced degrees in progress
Katelin Alldritt: University of California, Davis MS
Tim Blazina: Dartmouth MS
Darrick Boschmann: Oregon State University MS
Cindy Broderick: University of Geneva, Switzerland PhD
Adam Campbell: University of Washington PhD
Carl Ebeling: Northwestern University PhD
Kevin Hughes: Illinois State U, MS hydrogeology
Patrick Hughes: University of Wyoming MS
Amie Lamb: University of Nevada, Reno MS
Torrey Nyborg: Loma Linda University PhD
Zach Ostreicher: Ohio State University PhD
Chad Pritchard: Washington State University PhD (recently defended!)
Sheryle Quinn: Portland State University MS
Robin Smith: ETH University, Zurich, Switzerland PhD
Josh Theule: University of Grenoble PhD
Sue Wacaster: Portland State University PhD
Scott Waibel: Portland State University PhD
Melinda Woods: Iowa State University PhD

Post-Doctoral Fellowship
Jennifer Edmunson: NASA, Huntsville, Alabama
Matt Hoffman: Los Alamos National Labs, New Mexico
Katie Leonard: CRES, University of Colorado, Boulder
Shaun Marcott: Oregon State University
Niki Parentau: NASA Ames Research Center, California

Teaching
Diana Baker: Southridge High School
Dirk Baron: California State University Bakersfield
Keith Brunstad: SUNY Oneota
Karen Carroll: Portland Community College
Dave Cordero: Lower Columbia Community College
Frank Granshaw: Portland Community College
Jim Jackson: PSU Geology
Bernice Lira: Portland Public Schools
Mary Meek: Lower Columbia Community College
Beth Norman: Bellevue Community College
Thomas Nylen: Portland State University
David Percy: Portland State University

Ben Perkins: PSU Geology
Christian Poppeliers: Augustaina State University (GA)
Thom Powell: Robert Gray Middle School
Sam Rigby: Georgetown University
Robert Schlichting: Cleveland High School
Tim Younberg: Tualatin High School
Sheryl Zinsli: Tesoro High School, Capistrano, CA

Consulting Firms
AMEC Salt Lake City: Charles Payton
AMEC Portland: Michelle Peterson, Robin Johnston, Joe
Fazio, Joey Hammer, Larry Robinson
AMEC (Oklahoma): Lorraine Woxell
AMEC (Reno): John Wood
Anchor QEA, LLC: Jessica Goin
ARCADIS: Angela Timmons
ARL Technologies (WA): Dale Timmons (President)
Ash Creek Associates: Chris Sheridan, Sunny Simpkins
Aspect Consulting (Seattle): Gus Leger
Avista (Spokane): Meg Lunney
Ballard Diving and Salvage: Brian Haug
Bridgewater Environmental: Anna St. John
Budinger Geotechnical (Spokane): Chad Pritchard
Canrig Technologies (LA): Harry Bleys
C&C Technologies (Houston): Anna Pillette
Columbia Geoscience: Al Waibel
Conoco-Phillips (Anchorage): Catherine Rosos
Cornforth Consultants: Darren Beckstrand
Del Sol Group Environmental (Los Angeles): Christy Lee
Confar
Destiny Resources (Denver): Randy Thompson
Earth Dynamics Inc: Michael Feves
ERM West Inc: Jennifer Baptist
EVREN Northwest Inc.: Lynn Green
Exxon-Mobil: Joann Welton
Foundation Engineering (Corvallis): Brooke Fiederowicz
Running
FSR Engineering: Rex Whistler
Fugro (Houston): Marina Drazba
G2 Associates: John Gray
Geocon Northwest: Kevin Schleh
Geoengineers (Seattle): Chip Barnett
Geodesign: Charlie Clough, Paul Trone
Geospace: Beth Rapp
Geoenvironmental and Geologic Services: Richard Kent
GIS Jobs LLC (Idaho): Jacob Mundt
Golder Associates: Aaron Fox, Kenny Jansen
Groundwater Resources (Pennsylvania): Jason Taylor
Groundwater Solutions: Jason Melady
Hahn Associates: Charlotte Berghoffer
Halliburton (NV): Troy Blackledge
Hart Crowser: Connie Taylor, Leon Lahtiere, Tim Blackwood, John Lawes
Hart Crowser (Seattle): Audra Inglis, Phil Cordell, Jon Eubet
HCitusca (Denver): Braden Hanna
Herrara Environmental Consultants: Tim Abbe
Henderson Land Services: Shawn Conterraz
Herb Schlicker and Associates: Doug Gless
HGL Inc (Herndon, VA): Brett Broderson
Integral Consulting: Erin Dokad
JBA: (Maryland): Bill Burris chief env. compliance coordinator
Jacobs Associates: Sue Bednarz
Johnson Land Surveying: Karen Boelling
Kadri Consulting (Seattle): Moin Kadri
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
Maul Foster and Mongi: Brian Johnston
Mobile Concrete (Casper, WY): Paul Beeson
Neil Shaw Consulting: Neil Shaw
Newmont Mining (NV): Ben Hinkle, Zeitel Gray, Matt Brown
Northwest Natural: Todd Thomas
Onyx Environmental: Sam Fetters
PBS Environmental: Dulci Berry, Barry Sanford, Scott Braunsten, Doann Hamilton
PBSJ (Montana): Robin Smith
Pike Energy Solutions, Inc.: Dave Rankin
PNL Technologies (Tri-Cities): Evan Arenson
PSSI: Tina Carlson, Jennifer Lind
Pacific Agricultural Lab: Jennifer Sloan Cimparman
Pacific Habitat Services: Shawn Eisner
Pacific Corps: Eric Nielsen
Parametric: Mike Marshall, Adam Romey
Raytheon Polar Corporation: Nicolle Alhedef
Rayne Volkswagen: Steve Simmons
Redfern Consulting: Roger Redfern
Shannon and Wilson: Kim Elliot, Rachel Pirot
Shannon and Wilson (Tacoma): Annie Watkins
Shannon and Wilson (Seattle): Lynn Viescas
Snyder & Wilson (Van Nys, CA): Sean Wilson
SWCA Consultants: Rusty Griffin
Terracon: Amy Staples
Terra-Min Exploration (Tuscon): Stuart Ashbaugh
URS: Ivan Wong
Vista Engineering (WA): Eileen Webb
Voelker Environmental (England): Corey Raspone
Weyerhauser: Jason Hinkle
World Wide Realty: Kathy Duhon

Don Pettit

DOGAMI: Bill Burns, Kate Mickelson, Serin Duplantis, Kendra Williams
Federal Highway Administration: Dave Lofgren
Hanford Nuclear Reservation: Mark Byrnes
Multnomah County Planning: Adam Barber
National Geodeic Survey: Jake Griffiths
National Park Service: Peggy Bohan
Oregon Dept. of Health: Dennis Nelson
Oregon Dept. of State Lands: Gloria Holthaus Kiryuata
Oregon Dept. Water Resources: Ken Lite, Ned Gates, Josh Hackett
Oregon Dept. of Transportation: Dave Taylor, Tom Braibish, Doug Marsh, Fred Gallixson, Sue D’Agnes, Bernie Kleutsch,
Curran Mohney, Stephen Hay
Pacific County GIS: Mark Scott
City of Salem: Stephanie Eisner
Umatilla Basin Watershed Council: Debra Doyle
US Army Corps of Engineers: David Scovel,
Mike Moran, Chris Humphrey, Adam Jones (Chicago), Amy Ebnet (Seattle)
US Bureau of Reclamation: Tess Harden
US Forest Service: Tom Koler, Rodney Lentz, Greta Burles (Placerville), 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
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
Jon Bounds
Nancy Ketrenos
Jack Pigg West

Deceased
Walt Barker
Gene Pierson

short stories

Peggy Bohan (BS 2002) meets the Obamas: Peggy has worked for the National Park Service for many years and was working as a ranger at the Grand Canyon when the Obama family visited. She had the opportunity to lead them around and she was the ranger who swore Malia and Sasha in as Junior Rangers!

Pacific Geotechnical merges with Hart Crowser: Two PSU alums combined their Portland companies this fall. Tim Blackwood merged his well known geotechnical
company with Hart Crowser, where Connie Taylor has been the manager for years. Hart Crowser wanted to expand again into the geotechnical area and it is a great marriage. Congrats to both companies!

Two alumni from the past visit the office: This past April Jack Pigg West, a PSU student from 1952 to 1954, stopped by. Jack went on to University of Oregon where he got his BS and MS degrees in geology (we did not have a geology degree in those days). He was in graduate school with Marv Beeson when they both worked on their MS degrees! Jack lives in Bakersfield now after a long career with Texaco, followed by Occidental, followed by consulting. It was great to meet Jack and talk about the old days. Daniel Aiken (BS 1971) also stopped by this past summer. He lives in Tuscon, Arizona today. He worked for 30 years in oil exploration and now leads nature tours.

### Geology Staff

Scott Burns (Ph.D. 1980 University of Colorado)
Sherry Cady (Ph.D. 1994 University of California)
Ken Cruikshank (Ph.D. 1991 Purdue University)
Michael Cummings (Ph.D. 1978 U. of Wisconsin)
Nancy Eriksson (B.S. 1987 Lewis & Clark College)
Andrew Fountain (Ph.D. 1992 U. of Washington)
Christina Hulbe (Ph.D., 1998 U. of Chicago)
David Percy (B.S. 1999 Portland State University)
Ben Perkins (Ph.D. 2000 Portland State U.)
Curt Peterson (Ph.D. 1983 Oregon State U.)
Alex Ruzicka (Ph.D. 1996 U. of Arizona)
Martin Streck (Ph.D. 1994 Oregon State U.)

### Research Staff

Melinda Hutson (Ph.D. 1996 U. of Arizona)

### Extra Section and Summer Staff

Matt Brunengo
Stephen Carlson
Melinda Hutson
Jim Jackson
Michelle Stoklosa

### Emeriti

Paul Hammond (Ph.D. 1963 U. of Washington)
Ansel Johnson (Ph.D. 1973 Stanford University)
Richard Thoms (Ph.D. 1965 U. C. Berkeley)