Geosciences

DEPARTMENT OF PHYSICS AND **GEOSCIENCES**

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Seven Geosciences Majors Graduated in December, 2011

It is always tough to say goodbye to graduates. They all play a very-important role in the success and vitality of our program. We are going to miss these Geoscientists as we prepare our new majors. But we look forward to seeing them grow in our professional society. More importantly almost 100 % Geosciences graduates are employed at this risky period. Congratulations to our

precious new alumni members.



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Frank Roberts Involved in an Accident



Dr. Frank Roberts was involved in an accident at his residence on November 3 after helping us on our Central Texas fieldtrips. He will be involved with multiple surgeries to repair his right hand and replace his left hand with prosthesis. Frank is doing well and will be joining us on many fieldtrips to come. We are glad he will be out on the rocks soon.

OEP Mineralogy Fieldtrip to Badu Hill in Central Texas

This was one of the best fieldtrips we had in decades. Frank Roberts, Thomas McGehee, and Dan Jackson supervised 12 geology majors and a TAMUK Civil Engineering major in their study of the historic Badu Hill Pegmatite. We took one of the Universities Total Workstations up to Badu Hill in Central Texas to map the historic REE pegmatite mine. Three teams were assembled to accomplish the work. Alexandra Breeding, Daniel Jurach, Stephanie Resendez and Lisa Maclaughlin completed a photomosaic of the inner workings and mapped the traverses with a brunton compass. Leah Ball, Naomi Pankratz, Juan Cavazos, and Jessica Garcia completed sketches of the working faces and identified the mineralogy around the perimeter of the mine. Paul Laraway, Alexandra Breeding, and Professor Dan Jackson collected quartz samples across the working face for future fluid inclusion work. Adam Pasciak, Michael Hill, Paul Laraway, and Talitha Costley started a total workstation survey of the site. We started a collection of minerals containing REE from this trip.

QEP Fieldtrip to PreCambrian Geology of Central Texas



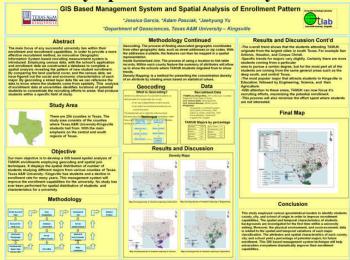
Chude Frank Roberts, Jim (Geologist), Thomas McGehee, Jaehyung Yu, Dan Jackson, and John Buckley led thirty-three students on our second trip to study an ophiolite suite, measure a stratigraphic section of Cretaceous rocks, study the hydrogeology of the Buckley Ranch measured structural and extension in Boudinage under the Llano Bridge in Llano Texas. Chude began the study of the stratigraphic section with an overview of the geologic units. Student teams measured the thickness of each unit and studied the compositional changes in lithology within stratigraphic units.

Students determined that the sedimentary rocks east of the Red Granite Quarry recorded a transgression of the sea during Cretaceous time. Frank Roberts, Tom McGehee, and Dan Jackson led the fieldtrip to the ophiolite on the Smith Ranch. We walked for a mile over amphibolites grade metamorphosed oceanic crust to a large segment of the ophiolite that contained large crystals of hornblende with a cumulate texture. On the opposite end of the ophioplite we studied and sampled rocks and minerals at the serpentine quarry.





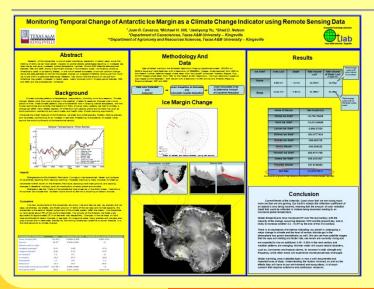
Javelina Symposium and Pathways to the Doctorate



Adam Pasciak and **Jessica Garcia** presented their research at this year's annual Pathways to the Doctorate Research Symposium. They won 3rd place in the Business and Computer Information Systems Division. Using ArcGIS they created a GIS based management system for the spatial analysis of enrollment patterns to help recruitment for the University. This research will be continued in the Spring of 2011.



Paul Laraway and Alexandra Breeding presented their work on delta systems at the Javelina Symposium and the 8th annual A&M System Pathways to the Doctorate Symposium. Their poster detailed the geology and progressive development of the three major delta sub-systems, taken from their research for the Army Corps of Engineers. Their work will provide the Army Corps of Engineers with the framework for a database of three-dimensional interpretations of various geologic environments, useful in many kinds of environmental and industrial applications. This poster won the Dean's award at the Javelina Symposium.



Juan R. Cavazos and **Michael H. Hill** Presented Their research at the Texas A&M student research symposium in Canyon TX, on October 22-23, 2010 as part of the pathways to the doctorate program. The research conducted was focused on monitoring the change in ice margins in Antarctica using Climate as a key indicator, under the supervision of Dr. Jaehyung Yu and Dr Shad D. Nelson. Their research is of great importance in raising awareness of global warming and can be used for future study. Their research will continue in the coming semesters.





Geosciences Open House in April

We are having an open house in April for our Geosciences Alumni followed by a reception. This open house will include a tour of the new University GIS Center housed in our College. We would like all alumni to come because we want you to meet all of your colleagues that are a part of our family.

Geosciences Students Receive Scholarships

Congratulations to **Michael Parker!** Michael was awarded \$2,500 by the 2010 Robert Cross Scholarship by the Board of Directors of Houston Gem & Mineral Society. Also congratulations are extended to **Paul Laraway**, **Leah Ball**, **Daniel Jurach**, **Alexandra Breeding**, **Jessica Garcia**, and **Lisa McLaughlin** for receiving **CCGS scholarships**.















Jessica

Lisa

Geosciences Club News

Club Activity in Fall, 2010

This fall in the year 2010 The Geosciences club had a great semester. We had new members join us from other departments, and developed relationships with the community. During October we participated in Fall Carnival and profited over \$300.00 from the sales of rock and mineral specimens as well as our coveted dirt cups. In order to become strong members of the community we volunteered at the elementary schools to teach the students about geology. We also had a weekly movie night to teach the community about earth science. The Geoscience Club is looking forward to the next semester in order to become a contributing part of the community, learn about the earth, and have a good time.







Photo Gallery (Geosciences Field Trip & Christmas Party)

