Department faculty have continued their string of teaching awards this past year with Dr. Jon Nyquist winning the first annual award for Innovative Teaching in General Education and Dr. Allison Tumarkin-Deratzian winning one of the college’s Distinguished Teaching awards.

There were 5 faculty and students presenting at the National GSA in Portland this year and 7 at the Regional GSA in Baltimore. Additional presentations were given at the Cordilleran and North-Central Regional GSA as well as the Water-Rock International conference.

Last fall, the Department of Earth and Environmental Science welcomed a new faculty member, Dr. Ilya Buynevich. Dr. Buynevich's specialties include coastal geomorphology, event sedimentology, and marine geology. He comes to Temple from the Woods Hole Oceanographic Institution where he has been conducting research on coastal evolution, aeolian landscape dynamics, and geological records of extreme events. He teaches physical geology and coastal geomorphology.

The Department of Biology also added two new faculty who will be involved in the Environmental Science program. Dr. Brent Sewall’s research focuses on behavioral and community ecology, conservation assessment, conservation planning, protected area design, and endangered species management. He has been working on fruit bats, primates, birds, and forest communities in sub-Saharan Africa (especially Madagascar, Comoros Islands, and Benin).

Dr. Amy Freestone's research explores the ecology and conservation of species diversity. Using terrestrial plant and coastal marine invertebrate systems, she examines ecological processes, including species interactions, dispersal, and response to environmental heterogeneity, that shape patterns of species diversity at different spatial scales and across biogeographic gradients, particularly latitude. Her interests also include invasion ecology and the biogeographic distribution of non-native species.
Recent Geology MS Theses Completed

<table>
<thead>
<tr>
<th>Student</th>
<th>Title</th>
<th>Advisor</th>
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<tbody>
<tr>
<td>Nwachukwu Anyamele</td>
<td>Characterizing mechanisms of clay gouge formation and implications for permeability, Moab fault Utah</td>
<td>Nick Davatzes</td>
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<tr>
<td>Paul Oliver</td>
<td>Sequence stratigraphic correlation of mid to late Devonian fluvial deposits using paleopedological analysis, Catskills, NY</td>
<td>Dennis Terry</td>
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<tr>
<td>Melanie Johnson</td>
<td>Mapping roadsalt discharge from groundwater using hydrogeophysics at Mirror Lake, New Hampshire</td>
<td>Laura Toran</td>
</tr>
<tr>
<td>Michael Gagliano</td>
<td>Characterization of lake seepage using 3d electrical resistivity, Mirror Lake, NH</td>
<td>Jon Nyquist</td>
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Recent EES Faculty Publications


Bill Lukens (BS Geology, 09) was involved in an undergraduate research project with Drs. Dennis Terry and David Grandstaff investigating the rare earth element geochemistry of fossil bones. Bill’s research, which was supported by the U.S. Forest Service and an Undergraduate Research Incentive Fund grant from Temple University, resulted in a first place award in the College of Science and Technology undergraduate research competition last Spring, a presentation at the 8th Federal Conference on Fossil Resources in St. Georges, UT last May, and coauthored abstracts at the 6th Bone Diagenesis meeting in Bonn, Germany and Society of Vertebrate Paleontology meeting in Bristol, England last Fall, and this April at the Rocky Mountain Section of GSA this April. Bill won the outstanding geology student award.

Alex Gibbs (Geology BS 09) won the Otto Kurschner Award for highest GPA in the sciences and 2nd place in the CST Undergraduate Research Symposium for his research on stormwater management. Working with Dr. Laura Toran, Alex measured stormwater entering and leaving a retention basin, and found that the basin wasn’t working to infiltrate water. Unfortunately, this is a common design problem in retention basins. Thanks to the Geology Field Camp Fund, Alex went to Western Michigan University Hydogeology Field Camp this summer where he learned more about groundwater monitoring techniques.

The undergraduate field camp fund has been turned into an endowed fund, thanks to the efforts of Gene Ulmer. He recycled metal from old equipment and sold it to create the fund. If you would like to add to the endowment and help undergraduates pay to attend field camp, mention the Gene C. Ulmer Undergraduate Fund when you donate to Temple.