

Cedar continued from page 1

providing wildlife habitat while preserving a historic working ranch," said Forest Legacy Program Coordinator for Arizona Al Hendricks.

A Stewardship Plan will guide the conservation of forest resources on the property. While the natural resources will continue to be managed by Babbitt Ranches, the conservation easement will be monitored by Coconino County.

"Coconino County is honored to have been asked by the Babbitts to hold these easements," said Coconino County Community Development Director Bill Towler. "We're thrilled with the level of protection being provided by the visionary Babbitt Ranches community. Cedar Springs is rich

in ecological, cultural and historical values. It's the source of water for virtually all of the CO Bar Ranch; it supports a diverse plant community; it has archaeological significance; and it's the site of one of the Grand Canyon Stage Coach stops. It's a pleasure to work with such fine stewards of the land."

The Trust for Public Land helped facilitate the easement project. "Arizona is blessed with incredible natural resources," said

Arizona State Director for The Trust for Public Land Paul Audley. "At Cedar Springs, we've been able to halt the march of time. In 100 years, it should look much the same as it does today—a working ranch and a healthy forest."

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Article IX Priceless Values Section 2. Ecology

Across the high desert landscape of northern Arizona, Babbitt Ranches promotes and respects regional continuity, wildlife habitat, diverse vegetation, watersheds, historic sites, cultural resources and access for recreationists and scientists. Ethics are the standards we employ to determine our actions.

Geophysicists continued from page 5

create a cross-section of subsurface geological formations based on the strength of the reflections.

"The seismic exploration will produce a picture of the subsurface that may indicate potential source rocks," said Tara. "Depending on what the information reveals, a test well may be drilled to confirm these seismic interpretations and find out whether gas is present."

If the companies find natural gas, as few as one well per 360 acres could be drilled.

"Because many of our leases are through the State Lands Department, we are governed by the state, which requires environmental surveys of the plants, low impact on the land and a consciousness for conservation and the natural and archaeological resources," said Tara. "This is consistent with the way we want to conduct business, as well."

A previous natural gas exploration effort found water below the CO Bar.

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Rivers continued from page 1

In the five years since Babbitt Ranches offered the gift of EMA and 24 acres of land to NAU, the program has had an enormous impact by facilitating hands-on learning projects for students, providing environmental research findings to land managers and solving environmental problems in parks.

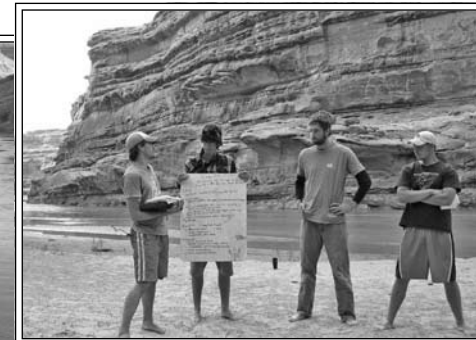
Through EMA and the Bureau of Land Management, the San Juan River corridor has become an accessible outdoor classroom complete with a biologically diverse riparian ecosystem, exceptional geologic formations and innumerable paleontological, archaeological and natural history sites. The Native American River Guide Training Course is one project that has evolved in the corridor. It teaches the basics of guiding commercial river trips along with the importance of the human history of the area.

At the Grand Canyon, students are working on 10 different projects including designing a sustainable bathroom facility; submitting research on a historic midair collision recorded on the Historic Registry; and conducting vegetation studies. "We want students to understand that everything they do relates to the environment," said EMA Director Karan English.

EMA's influence also is evident in Oak Creek Canyon where NAU's Master's of Liberal Studies program is capturing and preserving the history of the Pendley Homestead. Frank Pendley filed a claim in 1910 and planted an apple orchard in 1912 at the area known as Slide Rock.

"He drew water out of the creek, and carried the water in five-gallon buckets with a yoke on his neck—he carried water, 10 gallons at a time, up to each individual tree...planted probably 75 trees, maybe 100," said Tom Pendley, Frank's son.

Today, EMA and the NAU Center for Sustainable Environments



Students enrolled in an environmental sciences class present their findings during a week-long trip on the San Juan River.

Water quality testing is just one of the many student monitoring and research opportunities available on the San Juan River.

are working with Slide Rock State Park to ensure that these heirloom apple tree varieties can continue to thrive at the historic homestead. Cuttings have been taken from the trees and grafted to new rootstock that have been re-planted in the orchard.

In addition, construction management students in the College of Engineering are recommending methods for restoring historic cabins at Slide Rock.

In the Verde Valley, efforts are under way to identify and share the social, cultural, economic and scientific importance of the Verde River watershed.

"The Verde River is a river at risk from development, water use demands and climate change," said English. "There are two research projects regarding the whole Verde Valley as it relates to the river. One is a water flow study and the other is a values study to identify what's important to residents. This information will help inform policy makers on what people think is important."

EMA also has created a green guide to NAU's environmental resources. *Navigating the Green Road*, the second edition, is a comprehensive catalogue of many of the university's environmental services, organizations and programs. It will be available this fall. Another EMA publication,

Student Connections, is a newsletter that describes internships, jobs and funding opportunities.

"Babbitt Ranches gave NAU a visionary framework to make all this happen and that set the tone for what the program has become today," said English. "They gave us a stand-alone program, an established foundation, 24 acres to build an eco-center and research rights to all their lands. The university has the opportunity to do research and have a laboratory beyond belief! What an extraordinary lab this is! The location is amazing! And, Babbitt Ranches is helping to develop the experiments—involving wind energy and oil and gas research, for example—and activities that go on in that great lab."

"The Babbitt Ranches community considers EMA to be a wonderful environmental resource," said Babbitt Ranches President Bill Cordasco. "Karan and her staff have an understanding of the urgency of solving environmental problems and have been able to attract more than half-a-million dollars in funding to projects.

Their commitment to integrating diverse research and various disciplines from the university provides for outstanding decision-making information. Federal, state and private landowners will greatly benefit from these efforts."

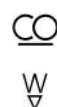
A name change is being planned for EMA. The proposed new name, *The Landward Center*, and logo are expected to be introduced this fall.

Article I Philosophy and Multiple Bottom Line Section 1.

Through our efforts of learning and understanding, we are better able to join, share and be a part of the Babbitt Ranches' organizational, ecological, economical and community decisions.



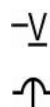
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