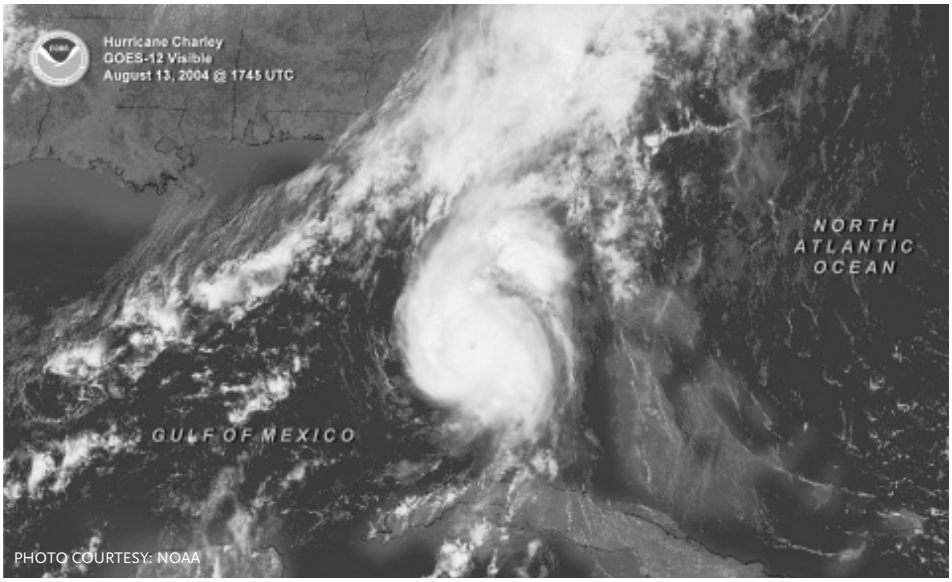
THE
SNRE SOURCE
UNIVERSITY OF FLORIDA SCHOOL OF NATURAL RESOURCES AND ENVIRONMENT

Vol.1 Issue 1 *Fall 2005*



Hurricane Charley makes landfall August 13, 2004 at Charlotte Harbor in southwest Florida as a Category 4 hurricane with maximum sustained winds of 150 MPH.

Stormy Weather Ahead

Jim Cato

Katrina, Jeanne, Frances, Charley, and Ivan are familiar names to all of us. Unfortunately, they are not the names of our children or grandchildren coming for a summer visit. But based on historical records, Florida can expect them and their friends to visit more often over the coming years, and yes, decades.

Much about hurricanes and tropical storms has been spoken and written regarding their impacts during the last few years. Certainly, the human and economic impacts of these natural events have become more devastating as our coastal populations have increased dramatically. If history repeats itself, the state will have more storms and be in more frequent recovery mode for the next few decades.

Analyses of storm records from more than 100 years show

Stormy Weather *on page 2*

Thoughts from the Dean and Directors

We are pleased to introduce the first issue of *The SNRE Source* created to share news with you—our alumni, friends, and supporters of the School of Natural Resources and Environment. This is a time of exciting change for the school.

Ten years ago we opened our doors as the College of Natural Resources and Environment, a "virtual" college with all faculty residing in existing University of Florida academic units. In 2002, the UF Strategic Plan recommended strengthening environmental programs and relocated us into the College of Agricultural and Life Sciences as a school.

This change brought many advantages. As the newly formed School of Natural Resources and Environment (SNRE), we added a research and outreach/extension component by incorporating the former Center for Natural Resources, which originally was

Dean and Directors *on page 2*

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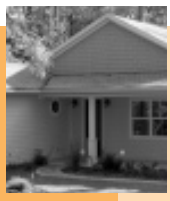

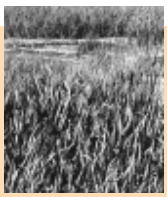

Stormy Weather

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that multi-decadal cycles exist in the frequency of hurricanes and tropical storms. The cycle of Florida storms based on historical records is approximately 60-70 years from peak to peak. The cycle is also geographic in nature.

A 1992 article in the *Bulletin of the American Meteorological Society* by William Gray and Christopher Landsea indicates that seasonal and multi-decadal variations of intense hurricane activity on the U.S. East Coast are closely associated with above average seasonal and multi-decadal summer rainfall amounts in certain regions of Western Africa. Periods of higher rainfall there cause a larger number of U.S. East Coast storms. Gulf of Mexico storms are highly dependent upon meteorological conditions in the Western Caribbean and the Gulf of Mexico.

A 2001 article authored by a team of researchers led by Stanley Goldenberg in *Science* attributed the recent increase in hurricane activity in the Atlantic Basin to simultaneous increases in North Atlantic sea-surface temperatures and changes in the speed of winds at different altitudes.

Almost 80 percent of Florida's population lives in coastal counties.

From 1960 to 1990, the time of the lowest frequency of hurricanes and tropical storms in Florida on record, Florida's population grew from 4.6 million to 12.9 million. This means that about two-thirds of Florida's population became residents during the least active hurricane period on record. Perhaps they have been lulled into a false sense of security about the potential impacts of hurricanes and tropical storms.

By most indications, however, Floridians can anticipate more severe weather and increasing devastation. The current population of Florida is about 17.5 million. By 2025, the population is predicted to be about 23 million. Today, almost 80 percent of Florida's population lives in the 35 coastal counties, and almost 80 percent of the state's economic activity occurs in these counties.

Since there will be huge numbers of new residents in the state, most of them on the coast, the impact of an increased number of storms will be much more dramatic, from both a personal safety and an economic perspective.

The 2004 series of major storms affected 15 states and cost billions of dollars in damages. The economic damage caused by Katrina may equal about 25 percent of the cost of all storms to date and substantially add to the total number of deaths.

If the frequency of storms returns to historical levels, then the loss in human lives and economic value has the potential to be staggering.

For more on this and other stories, visit *The SNRE Source* online at http://snre.ufl.edu/news/source.htm.

Dean and Directors

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Left to Right: James C. Cato, Senior Associate Dean and Director; Stephen S. Mulkey, Director of Research and Outreach/Extension Programs; Stephen R. Humphrey, Director of Academic Programs

established in 1973 to promote research and extension. We now have a new constitution and governing structure, including an advisory board, faculty advisory council, and external advisory council.

The School of Natural Resources and Environment offers campus-wide, interdisciplinary degree programs at both the undergraduate and graduate levels. Eleven colleges/units and 300 affiliated faculty participate in SNRE, contributing to the university's interdisciplinary initiative in ecology and environment. Work is under way to advance our school to the next level. The university is providing us with additional money to fund research and outreach, support graduate students, and hire teachers and researchers. We are excited about our progress and wish to convey the enthusiasm and energy that make the School of Natural Resources and Environment so special.

'Green' Building Program Offers Solutions for Development

PATRICIA CASEY

As the boom in residential construction alters Florida's environment and boost the demand for energy and water, a new program at the University of Florida promotes managing natural resources in a more efficient way while maintaining the economic benefits of growth.

The Program for Resource Efficient Communities encourages resource-efficient development practices by working with builders, architects, and other professionals involved in the many phases of residential community development.

"Many new residential developments are master-planned communities with thousands of homes consuming large amounts of energy and raw materials," said Pierce Jones, director of the program. "These communities represent a major change in land use from agricultural and natural areas to urban or suburban. Developers buy large tracts of land, and their decisions can affect entire ecological systems."

Jones said the program matches the knowledge of UF faculty with the needs of developers. Participating faculty have expertise in areas such as environmental engineering, energy, water, wildlife, forestry, landscape architecture, and building construction. The program works within the School of Natural Resources and Environment, which has the mission of leading initiatives to resolve environmental issues by supporting collaborations among UF faculty and external stakeholders.

"The Program for Resource Efficient Communities aligns well within our mission," said Stephen Mulkey, SNRE director of Research and Outreach/extension. "We provide a way for the program to access county extension offices and UF faculty campus-wide to address the issue of growth in our state," he said.

The Program for Resource Efficient Communities participated in the design and development of Madera, a "green" community adjacent to the UF campus. Dr. Pierce Jones (left) and Dr. Stephen Mulkey show an insulated concrete form, a technology that promotes energy efficiency and produces strengthened wall systems capable of withstanding high winds.

"The program has shown that we can meet the needs of development and do it in a sustainable way."

The Program for Resource Efficient Communities recently worked with developers of the Harmony, Fla. community. All 7,200 homes in Harmony will be built to meet or exceed the U.S. Environmental Protection Agency's ENERGY STAR® standards. This means lower electric bills for each homeowner. The overall result is a reduction in the demand for power generation and the need to burn fossil fuels.

Jones said in addition to a savings on the electric bill, water-efficient fixtures and appliances conserve water. Durable and recyclable construction materials reduce the amount of waste going to the landfill. Landscaping with native and drought-tolerant plants further reduces water consumption and the amount of turf, pesticides, and fertilizers needed.

More than 7,000 acres of Harmony's total 11,000 acres exist as open space devoted to woods, wetlands, and recreation available to residents. The golf course wraps around existing wetlands and was designed to preserve the diverse plant and animal life found there.

"Developers are beginning to realize they can offer open space as an amenity and build other amenities like golf courses to enhance the natural environment rather than degrade it," Jones said.

Some cities in Florida are providing incentives for builders to use "green" building methods. The city of Gainesville recently began a green building program to promote the voluntary use of

'Green' Building Solutions

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sustainable practices in design and construction. The city uses standards developed by the Florida Green Building Coalition and the U.S. Green Building Council. The Program for Resource Efficient Communities evaluates these certification standards for best design and management practices. Builders who follow the standards receive fast-track permitting and a 50 percent reduction in permitting fees.

The Program for Resource Efficient Communities evaluates and promotes several other "green" certification programs, including Audubon International's Signature Programs, a series of nonprofit education and assistance programs to help landowners, managers, and developers follow sustainable practices. In addition to reviewing certification standards, the program teaches continuing education courses that satisfy state of Florida licensure and professional association requirements.

"We want to show everyone from developers and homeowners to realtors and mortgage bankers that energy efficiency adds value to a home while helping to conserve our natural resources," Jones said. "In the face of Florida's rapid growth, green building methods can help to preserve and even enhance our quality of life."

Web Resource

http://www.energy.ufl.edu

Contact

Dr. Pierce Jones
ez@energy.ufl.edu

RESEARCH


MILT PUTNAM UF/IFAS

Everglades National Park

Science Fellowship Program Studies Effects of Everglades Restoration

The School of Natural Resources and Environment has partnered with the National Park Service through a South Florida/Caribbean-Cooperative Ecosystems Studies Unit agreement on a two-year, $575,000 grant, "Science Fellowships in Everglades Restoration Ecology."

The goal of the postdoctoral fellowship program is to develop and apply methods for evaluating the effects of the Comprehensive Everglades Restoration Plan (CERP) on wildlife and fishery resources, vegetation dynamics, water quality, and key ecological processes in the Everglades ecosystem. Fellows are part of a multidisciplinary group of specialists at the South Florida Natural Resources Center in Everglades National Park, Homestead, Fla. Tonya Howington oversees the program and Stephen Humphrey, director of SNRE Academic Programs, is the principal investigator.

Current postdoctoral fellows are Douglas Donalson and Cristina Ugarte. Faculty advisers include Donald DeAngelis, U.S. Geological Survey/University of Miami and Frank Mazzotti, Fort Lauderdale Research and Education Center. National Park Service advisers include Quan Dong and Oron L. Bass, Jr.

Tae-Woong Kim was a former postdoctoral fellow with University of Miami faculty adviser David Chin and National Park Service adviser Hosung Ahn.

Contact

Dr. Stephen R. Humphrey
humphrey@ufl.edu

Territorial displays of Hippopotamus amphibious involve tusklike 60-centimeter canines weighing almost 3 kilos in a mouth that can open to 120 centimeters. Valued for superior ivory, meat, and hide, hippos face threats across Africa; the Gamba Complex is an important refuge for hippos in Gabon.

Graduate Student Photographs Africa's Diversity

PATRICIA CASEY

School of Natural Resources and Environment interdisciplinary ecology graduate student Carlton Ward, Jr. has combined his interest in ecology with his talent for photography.

Ward spent more than seven months in the field photographing the unique landscapes and biological diversity of Gabon in central Africa. The result of his efforts and those of the Smithsonian Institution's Monitoring and Assessment of Biodiversity Program have been published in a 320-page book titled *The Edge of Africa* (Hylas Press). Ward's mission in Gabon was to raise awareness about environmental issues through photography.

"Carlton's extraordinary book shows the power of an interdisciplinary approach," said Stephen Humphrey, director of SNRE Academic Programs. "He's combined the intellectual rigor of environmental science with the effectiveness of a professional communicator, and he's juxtaposed the interaction of biological and human communities, both depending on the natural world."

Ward chose the School of Natural Resources and Environment because of the interdisciplinary structure of its master's program. Ward completed his course work in science and his thesis through the College of Journalism and Communications, where he became the first UF graduate student to combine the interdisciplinary ecology curriculum with photojournalism.

Ward recently founded the Legacy Institute for Nature and Culture. The institute's mission is to raise awareness for natural environments and cultural lega-

Carlton Ward

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(L-R) Carlton Ward, Jr. with Gabon's president Omar Bongo and ecologist Michelle Lee at a UN reception.

cies, educate about important connections between human societies and natural ecosystems, and promote conservation of natural heritage for the betterment of present and future generations.

Web Resources

http://www.carltonward.com

UF's *Explore* magazine

http://www.rgp.ufl.edu/publications/explore/v08n2/feature_01.html

Legacy Institute for Nature and Culture

http://www.linc.us

DID YOU KNOW?

The graduate degree program in Interdisciplinary Ecology has grown steadily from 21 students at its inception in 1999 to 118 today.

PROGRAMS

Professionals Learn to Resolve Environmental Conflicts

The Florida Natural Resources Leadership Institute trains professionals from Florida's agencies, industries, and organizations to deal with controversial environmental issues related to their jobs.

Participants in the program learn the skills needed to build consensus around contentious issues and move beyond conflict to find solutions. Training includes tours of key natural resource sites around the state. Institute graduates go on to help citizens, policymakers, and other stakeholders reach mutually acceptable solutions to the often conflicting goals of protecting the environment while fostering economic development.

The School of Natural Resources and Environment hosts the program in collaboration with the Florida Conflict Resolution Consortium and the UF Institute of Food and Agricultural Sciences. Other sponsors include Progress Energy, Florida Sea Grant, Florida Farm Bureau Federation, and the South Florida Water Management District.

The 2006 program will emphasize growth management issues to prepare graduates to deal constructively with Florida's explosive growth. For more information, please contact Bruce Delaney.

Web Resource

http://nrli.ifas.ufl.edu

Contact

Bruce Delaney
bldelaney@ifas.ufl.edu

PHOTO COURTESY: FNRLI

Florida Natural Resources Leadership Institute class members board a dragline bucket at the IMC Global, Inc. four corners mine (where four county borders meet—Hillsborough, Manatee, Hardee, and Polk). This class session focused on the reclamation of mined lands and the controversy created as mining companies seek to open new excavation sites near eco-conscious communities.

The Nature Conservancy and SNRE Offer Training Program to Help Land Managers

To help meet the growing need for professionals who manage, protect, and restore important natural areas in Florida, The Nature Conservancy is offering a training program in cooperation with the School of Natural Resources and Environment and the UF Institute of Food and Agricultural Sciences.

Natural Areas Training Academy participants conduct a field exercise during the Managing for Diversity across Florida's Unique Landscapes workshop.

The Natural Areas Training Academy is designed for public and private resource managers. Participants who complete a series of five workshops earn a Certificate in Natural Areas Management. This certification has been adopted by five Florida counties as a basic qualification for land management work. The workshops have been endorsed by the Natural Areas Association and used as a template to establish nationwide standards for conservation land management training.

The academy training program is also supported by the Florida Fish and Wildlife Conservation Commission and the Florida Park Service, which may make the training a basic requirement for managers in the state park system.

Web Resource

http://nata.snre.ufl.edu

Contact

Dr. Doug Shaw
shaw@tnc.org

New Web Site Launched for Land Managers

In collaboration with The Nature Conservancy, EarthBalance, Inc., and the Florida Park Service, SNRE has launched the new Conservation Notes Web site. This Web site allows land managers to share information quickly and easily so that lessons learned can rapidly percolate throughout the land management community.

Web Resource

http://conservationnotes.ifas.ufl.edu

SNRE Mini-grant Program Supports Interdisciplinary Projects

The environmental challenges of the 21st century are complex and require an interdisciplinary approach to finding solutions. Responding to the need for science-based, integrative research, SNRE offers a Mini-grant Program for UF faculty.

The program is highly successful at leveraging additional research dollars and encouraging collaboration. Figures for 2003-04 show that approximately $25 in additional funding was generated for every $1 allocated through the program. Project collaborators represented 19 departments within five colleges, 11 county extension offices, and Florida Sea Grant. Several projects also involved governmental agencies and the private sector.

During 2004-05 and 2005-06, the Mini-grant Program allocated a total of $340,000. Additional figures for the 2004-05 Mini-grant Program will be available next year.

In addition to SNRE funds, financial support for this program is provided by the deans for the colleges of Agricultural and Life Sciences, Engineering, Liberal Arts and Sciences, and Veterinary Medicine; the IFAS Dean for Research; and the Vice President for Research.

Web Resource

http://snre.ufl.edu/funding/minigrants.htm

PARTNERSHIPS

SNRE Partners with The Conservancy of Southwest Florida

The School of Natural Resources and Environment has signed a memorandum of understanding with The Conservancy of Southwest Florida to raise funds in support of UF faculty, students, and the conservancy for joint research and education projects of importance to southwest Florida.

Web Resource
http://www.conservancy.org

SNRE and New College Plan Joint Degree Program

The School of Natural Resources and Environment and New College of Florida are currently designing a program that will allow select upper-division students in Environmental Studies at New College to finish their last year at UF and complete two more years of a master's degree in Interdisciplinary Ecology at UF.

Web Resource
http://www.ncf.edu

DID YOU KNOW?

SNRE won a Golden Web Award in recognition of creativity, integrity, and excellence on the Web.
http://snre.ufl.edu

FACULTY

Peter Hildebrand draws on a lifetime of experiences to help students find ways to reduce poverty and increase food security in developing countries by improving small-scale farming systems.

"This research is critical because a large part of the world's population of farmers operate small-scale, family farms," Hildebrand said.

Hildebrand's international background encompasses work in more than 30 countries over 40 years.

Many of his American students are former Peace Corps volunteers who, along with his foreign students, are now conducting research in developing countries. Some of the research includes evaluating farms in the peripheries of protected areas, studying the impact of market potential on biodiversity in home gardens, and researching the potential for connecting fragments of a biosphere reserve via small-farm biodiversity.

"These areas of study require people with broad knowledge rather than highly specialized training. The School of Natural Resources and Environment provides students with the multidisciplinary background they will need."

— Peter Hildebrand

STUDENTS

School of Natural Resources and Environment undergraduate Nichole Lynch-Cruz has received a BS in environmental science with a minor in agricultural law.

During her years in SNRE, she served as undergraduate president of the SNRE student council.

"SNRE has truly fostered my leadership development during my time at the University of Florida," she said. "Without the personalized experience and academic support I received from SNRE, I don't think I could have made it at such a large university as UF."

Lynch-Cruz plans to pursue a master's degree in public administration and environmental science and policy from Columbia University and then apply to law school. She hopes to become a politician at the federal level and advocate environmental causes.

"I owe all of my accomplishments to SNRE. I hope that someday I can give back as much as they have given me."

— Nichole Lynch-Cruz

2004 and 2005 Student Awards

Graduate Alumni Fellowships

Danny Coenen
Jean-Gael Emptaz-Collomb
Amy Daniels
Matthew Kopka
Kristen Marshall Mattson
David Wilsey

Presidential Fellowships

Smriti Bhotika
Douglas Fraiser

Grinter Fellowships

Melina Farve
Jenny Haddle
Heather Loring
Kari MacLauchlin

William Bartram Scholarships

Jennifer Hall
Vanessa Lochner

College of Agricultural and Life Sciences Undergraduate Scholarships

Thomas Fouke, Jr.
Sara Leitman
Sally Riewe
Claire Sunquist

Florida Rural Rehabilitation Corporation Award

Timia Thompson
Timer Powers

School of Natural Resources and Environment graduate Hal Knowles is using his interdisciplinary training as part of a diverse team of professionals working to implement resource-efficient practices in Florida's new residential developments.

In 2004, Knowles received an MS in interdisciplinary ecology and has since become coordinator for the Program for Resource Efficient Communities, a new program within the School of Natural Resources and Environment (see story page 3).

"The School of Natural Resources and Environment provided an excellent educational opportunity that has benefited me both on a professional and personal level," Knowles said.

"The unparalleled scope and flexibility of the interdisciplinary ecology curriculum, not only met my desire for a broad exposure to sustainability, but also opened my eyes to new ways of thinking about the world."

— Hal Knowles

Graduate News

Victor Cabrera (PhD '04) is a research scientist for the Southeast Climate Consortium.

Teal Chiabotti (BS '01 and MS '04) also completed a master's in business management at UF and works as a consultant for W&M Environmental Group, Inc. in Plano, TX.

Julie (Pennington) Clark (MS '01) is a greenway planner in Charlotte, N.C.

Jamie Duberstein (MS '04) works with the Florida Cooperative Fish and Wildlife Research Unit as a wildlife biologist and plans to begin a doctoral program.

Maria Cecilia Ferreyra (MS '01) entered the doctoral program at the University of Guelph, Canada.

William T. (Bil) Grauel (PhD '04) is the fire use specialist for the San Carlos Apache Reservation in eastern Arizona.

Amy Miller Jenkins (MS '02) is senior botanist with the Florida Natural Areas Inventory in Tallahassee.

Nicole Kibert (MS '00) received a law degree from UF and is an attorney at Carlton Fields, P.A. in Tampa.

Jennifer Lechuga (MS '01) works for the U.S. Fish and Wildlife Service as a wildlife biologist in southern Calif.

Brian Pearson (MS '04) works for Handex Group, Inc. on petroleum contamination monitoring and remediation.

Paula Posas (MS '01) is staffing coordinator at CHF International. She will begin a PhD program at the University of Liverpool, UK.

Christopher Yates (MS '01) is marine mammal branch chief for the Pacific Islands Regional Office, NOAA Fisheries in Hawaii.

Undergraduate News

James Argento (BA '04) attends law school at Florida State University.

Erika Barraza (BS '04) is an environmental specialist for Collier County, Fla.

Sanjeev Bissessar (BS '97) is a materials manager for General Electric in Chicago.

Christopher Blair (BA '99) works with Risk Management Partners, LLC in Atlanta.

Lisa Brooker (BS '99) is a project manager with Curtis & Tompkins, Ltd. in Berkeley, Calif.

Robin Burgess (BA '01) is an environmental analyst for the South Florida Water Management District.

Janice Chang (BA '03) is working on a master's in museum studies at UF.

Sarah Chinault (BS '04) is working on a master's in the UF Department of Soil and Water Science.

Ryan Colker (BA '98) graduated from George Washington University Law School and is program director for the Renewable Natural Resources Foundation.

Amy Fardy (BA '02) entered the graduate program at Indiana University's School of Public and Environmental Affairs.

Travis Ford (BA '04) works at the Florida Museum of Natural History in Gainesville as a shark researcher.

Graciela Garcia (BA '01) graduated with a law degree from Georgetown University and works for the EPA in Washington, DC.

Anthony Georgi (BA '01) works as assistant land development manager for K. Hovnanian Homes.

Timothy Green (BS '99) is conducting field research at Yuma Proving Ground, Ariz. with the U.S. Army's Sustainable Lands Program.

Kala Gurung (BS '98) is a consultant in sustainable agriculture and development.

James Hart (BS '03) works for the California Condor Recovery Program in central California.

Graham Hayes (BA '00) is an environmental scientist with Coastal Science, Inc. in Jacksonville Beach.

Raymond Hess (BA '99) is a transportation planner for the City of Bloomington, Ind. and is pursuing a master's in environmental science and public administration.

Deno Hicks (BA '98) works as business development manager for England Thims & Miller, Inc. in Jacksonville.

Christopher Shay Hill (BA '97) is a senior associate scientist for Terra-Com Environmental Consulting, Inc. in Jacksonville.

Dahlia Horton (BS '02) works in a medicine and infectious diseases research lab at UF and will attend Naturopathic Medical School.

Ivan Iturrino (BS '00) is an environmental technician for Tierra Consulting Group, Inc. in West Palm Beach, Fla.

Whitney (Kurz) Jenkins (BS '99) received a master's in coastal environmental management from Duke University and works for the North Carolina National Estuarine Research Reserve.

Krithi Karanth (BS and BA'01) received a master's in environmental science from Yale and is a doctoral student at Duke University's Nicholas School of Environment.

Caroline Keicher (BS '04) works for Green Corps on environmental, political, and corporate-accountability campaigns.

Joy (McBane) Kokjohn (BS '99) works for the St. John's River Water Management District and will pursue UF's online master's in soil and water science.

Shani Kruljac (BA '99) is the lakes program coordinator for the City of Lakeland.

Ted Lynch (BA '99) lives in Orlando, where he represents several orthopedic companies selling total joints, sports medicine, and trauma products.

Lauren McDonell (BA '02) received a master's from the UF School of Forest Resources and Conservation.

Steve McElroy (BA '02) is a geographic information systems coordinator for Gainesville Regional Utilities.

Ty McFarland (BS '01) is a staff environmental scientist for GeoTrans, Inc. in Atlanta.

Matthew Mills (BS '01) serves as a Reserve Ensign for the U.S. Coast Guard and works at the Southwest Florida Water Management District.

Kristen Nowicki (BS '98) works for the Alachua County Department of Growth Management while pursuing a master's in urban and regional planning.

Jacob Richardson (BS '98) is a materials inspector in Orlando for the engineering firm BCI.

Stefanie Rochow (BA '01) is an environmental specialist with Volusia County, Fla. She received a BS from the School of Forest Resources and Conservation and is pursuing an MBA.

Mary (Rogers) Ruhter (BS '01) is an environmental scientist for TechLaw Inc. in Chicago.

Ronie Rukab (BS '98) is a project manager at URS Corporation in Jacksonville.

Philip Shad (BS '02) received a master's in urban and regional planning from UF and works for PBS&J in Jacksonville.

Tracy Shirah (BS '96) received a master's in environmental management from Samford University and works for AMEC in Nashville, Tenn.

Natalie (Rodriguez) Showers (BS '03) works at NuCor Steel in Tuscaloosa, Ala.

Linnea Spears (BS '01) is pursuing a master's in biology at San Diego State University.

Benjamin Studt (BS '03) is an environmental analyst at the South Florida Water Management District.

Noah Valenstein (BA '99) is president of The Theodore Roosevelt Society and attends law school at Florida State University.

Holly Valerio (BS '03) is in her third year of medical school at UF.

Samantha Webb (BS '02) works as an environmental scientist for PGC Environmental in Roswell, GA.

Jessica Wickham (BA '03) received a master's of public administration in environmental policy from Columbia University.

Kristi (Rainer) Yanchis (BA '99) lives in St. Sebastian, Fla. where she works for the U.S. Fish and Wildlife Service.

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May we use the information below in our newsletter? ☐ Yes ☐ No

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You may also e-mail updates, news, and a photo to humphrey@ufl.edu.

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