

USF

UNIVERSITY of SOUTH FLORIDA *System*

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SPRING 2017



Protecting our **Water**

USF researchers find solutions for healthy water around the world

First Look





Photos: KATY HENNING MA '16

FOSSIL RECORD

TO PRESERVE THE HEALTH OF OUR WATERWAYS for the future, we must understand their past, says Professor Emeritus Albert Hine, PhD.

To unravel the geologic history of Florida and Tampa Bay, Hine dug back over 700 million years. His surprising results have been documented in his book, *The Geological History of Florida – the Major Events that Formed the Sunshine State*, and an award-winning multi-media project, Tampa Bay Water Story, produced by Katy Hennig, MA '16.

“In one of our projects, we discovered buried freshwater lake sediments in Tampa Bay,” Hine says. “From about 20,000 years ago to about 10,000 years ago, Tampa Bay was partly a freshwater lake. The best record of early humans in Florida, what they ate and how they lived, is right there slightly beneath the seafloor of the bay.”

Hine, who specializes in geological oceanography, collects and uses fossils to help tell the story of Florida’s land and water.

“Our appreciation for beauty helps remind us of the importance of protecting our natural environment,” he says.

PHOTOS:

Albert Hine holds a fossilized tooth from a Megalodon, or giant shark, found in the center of the Florida peninsula.

A fossilized Ammonite shell, an ancient geologic relative to the contemporary nautilus mollusc, reveals the beauty and patterns of the mathematical Fibonacci Sequence.

View Tampa Bay Water Story at tampabaywaterstory.com

HANDS-ON SCIENCE

ENGINEERING EXPO, A TWO-DAY STUDENT-RUN event, brings elementary, middle and high school students from across the Tampa Bay region to experience hands-on exhibits that act as examples for all things physics, chemistry and engineering. The experience includes everything from carefully supervised explosions to energy-producing bicycles.

The grounds around USF's College of Engineering were covered with more than 10,000 young students Feb. 17 and 18 for this year's event – its 45th year. Participants found more than 60 exhibits demonstrating engineering principles and featuring the latest technology used by companies such as Lockheed Martin, Raytheon and Tampa Electric Company (TECO). Science, technology, engineering and mathematics (STEM) programs from local schools give presentations that demonstrate their technology interests.

An active student board starts planning early, staying in contact with teachers and chaperones, says Emily Pretorius, schools director for Engineering Expo and a USF senior in computer science. "That way, we make sure we have all of the thousands of students come in and leave safely."

Exhibits and experiments are tailor-made to the students' grade levels and help teachers bridge math and science concepts from the classroom – all while offering a fun learning experience, says Tricia Craig, a science resource teacher at McDonald Elementary School in Seffner.

"I think this event is important for both teachers and students. For teachers, it gives them the opportunity to see how easy it is to do some hands-on (activities) and also gives them the opportunity to expose their students to experiments they couldn't do in their classrooms. For the students, this event makes alive what science really is. It's the spark that leads into that engineering or that science field they might want to go into."

"If you think about the challenges we face in the world today, whether it's water, food, safe and secure transportation, renewable energy, accessible health care – you name it and somewhere there's a role for scientists and engineers to find answers and solutions," says Robert H. Bishop, dean of the USF College of Engineering. "So we need to inspire students from kindergarten on up so they understand that they, too, can be explorers. After all, scientists and engineers are explorers."

– SARAH WORTH '86 | USF Health



First Look



PHOTOS: RYAN NOONE | USF Communications



PHOTOS: More than 10,000 school children from around the Tampa Bay region roamed the grounds of the USF College of Engineering in Tampa at Engineering Expo: Elemental Properties of the Universe 2016-17.

View a video and read more about Engineering Expo at usf.edu/news

SOUTHERN HOSPITALITY *at the Bulls Bistro*

LOOK FOR A SWEET TOUCH AND A GLOBAL APPROACH to cuisine as USF Sarasota-Manatee's Culinary Innovation Lab (CIL) opens its doors for two exciting weekly events, the Bulls Bistro and Global Culinary Connection.

The bistro, which gained popularity last fall when it debuted a mix of appetizers paired with craft beer and wine, returned this spring, but with a twist. Included in the sampling now is a specialty dessert crafted by faculty from USFSM's College of Hospitality & Tourism Leadership.

Chef Joe Askren says that adding the sweet option complements, and completes, what already is a popular evening at the lab, 8130 Main St., in Lakewood Ranch. Additionally, students take turns overseeing "front and back of the house" operations, interacting with patrons and kitchen personnel.

"We're really giving the dining community more of what they've asked for," Askren says.

Tickets to Bulls Bistro, available at usfsm.edu/bistro, typically sell out days in advance. All of the dining events run from 5:30 to 7:30 p.m. and cost \$25. At least two more events are scheduled this spring. Askren says that's not the only change at CIL. Also this spring, the lab introduced its Global Culinary Connection program to highlight cuisine from around the world. Patrons can sample a mix of international favorites, pick up cooking tips and learn recipes as the chef guides them through a historical exploration of many of today's popular dishes.

Longtime chef, London-born James Arnsby leads the gastronomic tours as diners are whisked to the Middle East, Asia, Africa and across Europe. A graduate of the French Culinary Institute in New York City, Chef Arnsby brings more than 25 years of restaurant experience to the CIL's demonstration kitchen.

The event occurs every other Wednesday. The tour's next stop is March 29, from 6 to 8:30 p.m., as Arnsby explores the many regional nuances of African cuisine. Four more tour stops will follow: Mexico, the Caribbean, Spain and Greece.

Each Global Culinary Connection dinner is \$45 and available by ticket only at usfsm.edu/globalculinaryconnection.

— CHARLIE TERENCEZIO | USF Sarasota-Manatee



PHOTO: Chef Joe Askren, pictured directly above, prepares a variety of dishes with USFSM students.





Photos: KATLYN STONE | USF Sarasota-Manatee

SAVING SEABIRDS

EVERY YEAR, THOUSANDS OF FLORIDA SEA BIRDS, turtles and aquatic mammals become ensnared in discarded fishing line. It wraps around beaks and snouts, tying them shut. Snagged line cut by anglers and left in trees and mangroves becomes a death trap for pelicans and other seabirds. Manatees and sea turtles eat it and die with bellies full of plastic.

In the Tampa Bay area, environmental groups including the nonprofit Tampa Bay Watch have addressed the issue, in part, by installing 175 monofilament recycling tube stations at popular fishing spots throughout the region. Volunteers clean out the tubes and the line is shipped to Berkley Conservation Institute in Iowa, where it's melted down and recycled.

"I've seen the tubes everywhere, but didn't know the two-sided purpose – to keep the line from endangering wildlife, and to recycle it. The recycle part was really neat," says Life Member Pam Haber, '85 and MAcc '97, who organized a team of USF Pinellas County and Engineering alumni group volunteers to empty the tubes and pick up trash during USF's Stampede of Service in January.

The group worked at the Skyway Fishing Pier next to the Sunshine Skyway Bridge. Entanglements there have decreased 80 percent since 2014 thanks to a targeted awareness and cleanup campaign that relies heavily on volunteers, says Rachel Arndt, Tampa Bay Watch communications manager.

Learn more at www.tampabaywatch.org. See how alumni groups around the country gave back during Martin Luther King Jr. Day Stampede of Service – page 64.

– PENNY CARNATHAN '82 | USFAA



PHOTO: Fishing line entanglement is a major cause of death for Florida brown pelicans, which were a Florida Species of Special Concern until 2013.





PHOTO: From left, Anne Mitton, '08 and '15, Patrick Mitton, '09, and Life Member Francine Clegg, '77, clean out a "mono tube" on the Skyway Fishing Pier. Pinellas County and Engineering alumni volunteers collected 20 pounds of fishing line and tackle.

PHOTOS: PENNY CARNATHAN '82 | USFAA

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USF researchers from marine science, engineering and biology apply their expertise to detect threats and offer solutions for protecting the water supply.

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A USF alumna and crewmates sampled Arctic waters for microplastics to better understand the extent of plastic pollution around the Arctic Circle.

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The non-profit Crystal Springs Foundation offers a full menu of K-12 environmental courses at its world-class education center.



Photo: STEVE MURAWSKI | College of Marine Science

Photo: SHERRI SWANSON, MA '14



Photo: Courtesy of USF Libraries



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ABOUT THE COVER:

Sherri Swanson, MA '14 Global Sustainability, and Environmental Project Manager at HDR, took this photo while sampling the waters of Greenland's Disko Bay for plastic pollution. See more of Swanson's amazing photos and read about the expedition on page 44.

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From the President

Photo: MATT MAY



PEOPLE SOMETIMES TAKE for granted those basic elements that allow us to thrive. Some facets of our lives seem so ubiquitous that we rarely notice them at all. These are the parts that often deserve our attention the most.

Such is the case for **water**: something so critical to our existence, yet so easily neglected.

Fortunately, the University of South Florida is grounded in its mission to promote water sustainability. USF researchers

across each of our institutions are tackling the significant challenges of protecting this vital resource.

In communities large and small, from the vast ocean to the microscopic organisms of our estuaries, USF is making an impact. Access to safe drinking water, curtailing climate change, controlling pollution, and understanding the full range of biodiversity are some of the many water-related pursuits of our faculty and students that

enable all of us to live and grow.

The issues are only becoming more complex as our cities become more crowded and interconnected. It takes a truly interdisciplinary research approach – through the collaboration of chemical engineers, environmental engineers, public health experts, biologists, marine scientists and others – to build meaningful solutions. I’m proud these scholars have embraced this issue with the curiosity, creativity, and optimism that exemplifies our mission as an institution dedicated to the betterment of the future.

These efforts are laudable, indeed. But their success also depends on each one of us as individuals recognizing and respecting water for what it is: a most basic element of life.

JUDY GENSHAFT, PRESIDENT
UNIVERSITY OF SOUTH FLORIDA
SYSTEM

ACADEMIC EXCELLENCE

USF leads the nation as the top producer of Fulbright Scholars



THE UNIVERSITY OF SOUTH FLORIDA ranked as the number one producer of Fulbright Scholars in the United States for 2016-2017, according to new data by the U.S. Department of State and Institute of International Education. The top-producing institutions were highlighted nationally in February by *The Chronicle of Higher Education*.

With an outstanding 12 faculty members named as scholars, USF doubled its number from last year surpassing other top research institutions, including the Ohio State University, Pennsylvania State University,



Incorporating international students, faculty and programs has long been a strategic priority for the University of South Florida System.”

– USF System President Judy Genshaft

University of Michigan at Ann Arbor, and the University of Southern California.

“Incorporating international students, faculty and programs has long been a strategic priority for the University of South Florida System. This commitment is reflected in our mission, faculty research, global engagement and campus diversity,” says USF System President Judy Genshaft. “Earning this important recognition as the national leader in producing Fulbright Scholars is another example of USF’s rapid growth and increasing trajectory as a top-tier global research university.”

Faculty who receive the highly competitive, prestigious Fulbright awards – chosen for their academic merit and leadership potential – travel abroad, bringing their experiences back to the United States. They incorporate new perspectives into their curriculum and research, furthering the development of USF students as global citizens.

As a global research university dedicated to student success, USF has seen growth in the number of students participating in study abroad programs to gain valuable international perspectives.

“Providing unfettered access to the highest quality global education to all academically qualified students remains a top priority for the University of South Florida. With 40 percent of our undergraduates being Pell recipients and 30 percent the first in their family to graduate from college, access to world-class faculty enriches the academic experience in ways that cannot be measured,” says Provost and Executive Vice President Ralph Wilcox.

Through the Fulbright program USF faculty were awarded grants to conduct research across the world in a variety of disciplines, including Muma College of Business marketing professor James Stock, who was awarded the prestigious Fulbright-Hanken Distinguished Chair in Finland. Only 43 Fulbright Distinguished Chair Awards worldwide were available for 2016-17, and the awards are “viewed as among the most prestigious appointments in the Fulbright Scholar Program,” according to the Fulbright program.

In 2016-17, only 193 U.S. college and university faculty and administrators received Fulbright grants to teach and/or conduct research.

For a complete list of USF’s 2016-17 Fulbright Scholars, visit www.cies.org

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University

NEW MEDICAL EDUCATION FACILITY RISING

USF unveils preliminary renderings for its new medical school and cardiovascular institute in downtown Tampa

TAKE AN EARLY LOOK at USF's newest state-of-the-art facility, which will combine a medical school to teach the next generation of physicians and a cardiovascular research institute to pioneer new discoveries for heart health under one roof.

Located at the corner of South Meridian Avenue and Channelside Drive, the new USF Health Morsani College of Medicine and the USF Health Heart Institute will include learning and conference spaces, an auditorium, laboratories, faculty offices and a clinical research and care unit when the building opens in late 2019.

The USF Health building will be a key anchor in a \$3 billion real estate development by Strategic Property

growing presence in downtown Tampa is today," says USF System President Judy Genshaft. "Co-locating our medical school and heart institute in the vibrant urban area of Tampa will attract more top-tier students and cardiovascular researchers, and energize our intent to bring more biotechnology, biomedical and pharmaceutical firms to this region. We are excited about seeing the construction of this fantastic facility over the next two years, as well as its lasting impact on the Tampa Bay economy."

"The University of South Florida's Morsani College of Medicine and Heart Institute will be an anchor for SPP's project and for the larger downtown community. The school's impact will extend beyond its physical presence and be felt throughout the urban core, bringing energy to the area with its students, researchers and professors," says Vinik. "I am delighted that USF is one step closer to seeing this project come to fruition."

Among its many advantages, the new location puts the medical school closer to its primary teaching hospital, Tampa General, and the USF Health Center for Advanced Medical Learning and Simulation, a competitive advantage for teaching tomorrow's physicians, says Dr. Charles J. Lockwood, senior vice president for USF Health and dean of the Morsani College of Medicine.

"News of the move to downtown is already having an impact on student and faculty recruitment," Dr. Lockwood says. "In fact, since the announcement of our move, the number of applications to our medical school has increased 170 percent, or by nearly 2,500 students per year, the caliber of students applying is increasing as well, and we've recruited 12 of the 31 National Institutes of Health-funded cardiovascular scientists who will conduct leading interdisciplinary biomedical research at



Co-locating our medical school and heart institute in the vibrant urban area of Tampa will attract more top-tier students and cardiovascular researchers and energize our intent to bring more biotechnology, biomedical and pharmaceutical firms to this region."

– USF System President Judy Genshaft

Partners (SPP), the joint venture between Jeff Vinik and Cascade Investment, LLC. The group is developing 53 acres in downtown Tampa into a multi-use, urban waterfront district that will promote a walkable, sustainable, healthy environment for downtown Tampa residents, workers, students and visitors.

"These early renderings are another powerful sign of how significant the University of South Florida's



ILLUSTRATIONS:
The \$152.6 million USF Health Morsani College of Medicine and USF Health Heart Institute building features angles and facets offering unique viewpoints from within and ample windows to allow reflective light into work and learning spaces.

Skanska/HOK is the design/build team constructing the new USF facility.

the Heart Institute.”

Construction of the USF downtown facility is expected to begin August 2017. The medical school and heart institute will be built with a combination of state and private funding.

Visit usf.edu/downtown to learn more.

— ANNE DELOTTO-BAIER '78 | USF Health



NEVER GIVE UP

USF Upward Bound program encourages college success

“IF YOU EXPERIENCE A SETBACK, pick yourself up and go Upward Bound” are some words of wisdom that Diane Allen-Gipson, assistant professor of Pharmaceutical Sciences in the USF Health College of Pharmacy, shares with her Upward Bound high school internship students.

Established in 1965, Upward Bound is a federally funded pre-college program that serves high school students from low-income families or families where neither parent has received a bachelor’s degree. The 2016-17 academic year marks the 50th anniversary of the Upward Bound program at USF. To celebrate this milestone, last fall more than \$5,000 was raised for the Richard F. and Eva L. Pride Endowment Scholarship for Upward Bound students, and a USF TRIO/Upward Bound day is planned for June 2017.

Upward Bound offers high school students services such as tutoring, advising, college readiness, financial aid workshops, college tours and other activities with the goal of preparing and encouraging students to graduate from high school and enroll in college.

One of the longest established in the nation, USF’s program is also one of only a few that offers internships within the university. The College of Medicine, College of Pharmacy, College of Business, College of Arts & Sciences, and College of Behavioral and Community Sciences all partner with Upward Bound to provide these insightful educational experiences.

Allen-Gipson is a 1980 alumna of the program, which she joined during her junior year in high school. “There was always someone there to enrich and provide a nurturing environment so you could pursue your career and endeavors,” says Allen-Gipson about her own Upward Bound experience. “I went on to college then worked on my master’s degree and PhD. It all stems from someone believing in you, encouraging you, and that gives you hope that you can do it.

“They told us to never give up – no matter how challenging things are – never give up on your goals. I would always reflect, ‘How would so-and-so feel if I gave up now?’

“Upward Bound gives low income students the insight into the purpose or value of a good education,” says Allen-Gipson. “The message is ‘you can be anything you ever thought you could be,’ which instills in students the hope, resilience and encouragement to pursue their goals.”

– CHERYL ANDERSON | Office of Student Success

■ 2,662 students have participated since the program began at USF.

■ 94% of students who have completed the program have enrolled in a post-secondary institution: 12% enrolled in a two-year institution and 87% enrolled in a four-year institution.

■ The Upward Bound program helps students with college applications and pays for application fees.

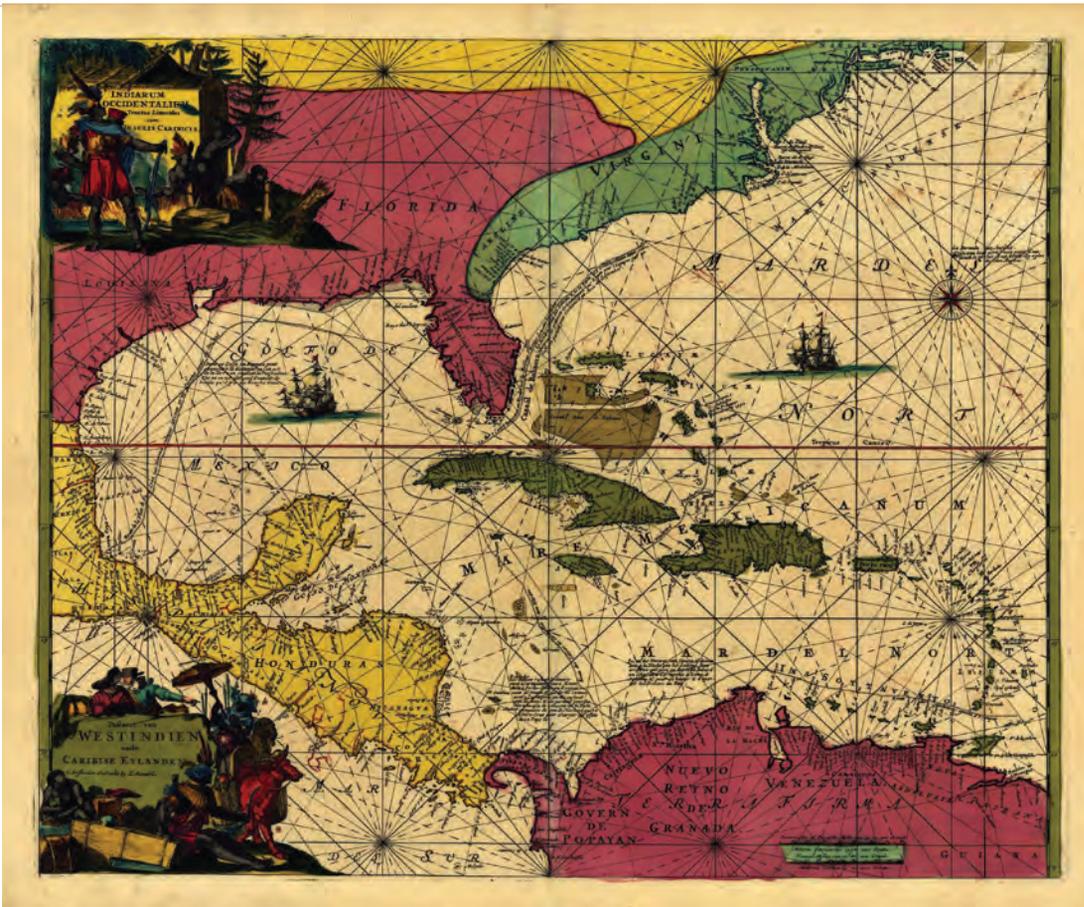
■ Lean more at www.usf.edu/undergrad/ub/

“
There was always someone there to enrich and provide a nurturing environment so you could pursue your career and endeavors.”

– Diane Allen-Gipson
Upward Bound '80-'82



Photo: CARRIE BLAUSTEIN



Photos: ERIC YOUNGHANS | USF Health

MAPPING HISTORY

New Florida map library offers journey across centuries

A GARGANTUAN FLORIDA – by today’s standards – curls around “Caroline” and Virginia in a 1720 map, *Indiarum Occidentalium*, that warns sailors of sandbanks, shoals and Caribbean cannibals.

A 1706 map based on an exploration nearly 200 years earlier depicts Florida as a stumpy appendage where placid natives milk deer and play flutes.

And *The British Governments in Nth. America*, published in *The Gentleman’s Magazine* in 1763, points out for its readers their colonies in the New World, including Florida, and where the various Indian tribes live.

The maps, among 10,000 at USF Libraries, will join another collection of 6,000 at the new Touchton Map Library/Florida Center for Cartographic Education, currently under construction on the roof of the Tampa Bay History Center in downtown Tampa. The library, expected to be completed in the fall, will give new audiences access to a wealth of historical documents, providing world-class educational and research opportunities. It’s the most recent fruit of a years-long partnership between USF and the Tampa museum.

“This expansion will house 6,000 maps dating from 1493 to current day. Access to an additional 10,000 maps and other documents through USF Libraries will make it one of the most comprehensive collections of its kind in the world,” said USF System President Judy Genshaft in announcing the project.

The \$11 million, 8,500-square-foot gallery, to be called *Treasure Seekers: Conquistadors, Pirates and Shipwrecks*, will also house a 60-foot replica sailing vessel and artifacts recovered from shipwrecks off the coast of Florida. Visitors will learn about explorers who landed in “La Florida” and pirates who wreaked havoc along its shores.

The gallery will also host relevant USF classes, such as digital museums and geographic information system mapping, and the museum will provide at least one paid student internship a year.

The new map library, one of only nine in the nation, promises everyone an unusual glimpse into Florida and Caribbean history.

“Some early 18th-century maps don’t show Florida at all. The peninsula is called Louisiana, which would have surprised its Spanish inhabitants,” writes Paul Camp, USF librarian emeritus. “Anyone who browses early maps in the USF collection will encounter some truly weird and wondrous versions of Florida.”

– PENNY CARNATHAN '82 and SARAH WORTH '86 | USF Health

PHOTOS: Items from the collection include *Indiarum Occidentalium*, pictured.

Top right: USF System President Judy Genshaft and USF Libraries Dean Todd Chavez take in the downtown view.

Tampa Bay History Center founding board chairman Tom Touchton spoke at a press conference about the new center.

USF HEALTH

USF gets \$2.45 million from state for Zika virus research, vaccine development

USF CONTINUES TO MAKE ZIKA a research focus. That's evident through various projects currently in the works.

To bolster those efforts, the Florida Department of Health (FDOH) recently awarded USF three grants totaling \$2.45 million to conduct Zika-related research to help stop the spread of the mosquito-borne virus within Florida and beyond.

USF's award was part of \$25 million in state Zika research funding announced Feb. 1 by Gov. Rick Scott to help expedite development of a vaccine to prevent Zika infection, understand and mitigate long-term impacts of the virus on children and adults, and develop innovative,



We cannot let our guard down. The threat remains real in Florida and across the country.”

– Dr. Charles Lockwood

Photo: JAMES GATHANY / CDC



cost-effective Zika testing methods. USF was among the top three universities in the state to receive the most funding.

“While Zika is not as prevalent in the winter months, we cannot let our guard down. The threat remains real in Florida and across the country,” says Dr. Charles J. Lockwood, senior vice president for USF Health and dean of the Morsani College of Medicine. “These new grants are much needed for advancing our efforts to develop vaccines and treatments and to provide better screening tests during pregnancy to protect babies from potentially devastating Zika-related birth defects.”

As of Feb. 1, the Centers for Disease Control and Prevention reported 4,973 travel-associated and locally-

transmitted Zika cases in the United States, with 1,069 of those in the state of Florida alone.

An infectious disease that spreads primarily from the *Aedes Aegypti* mosquito, Zika virus can be transmitted from a pregnant woman to her fetus, and through sex, blood transfusions, and laboratory health care exposure, according to the CDC. Currently, no vaccine exists to fight Zika.

The three state grants awarded to USF are:

Studying how Zika infects the fetus

Dr. Lockwood, an obstetrician specializing in high-risk pregnancies, and co-principal investigator Dr. Ozlem Guzeloglu-Kayisli, working with a research group in the Department of Obstetrics and Gynecology, were awarded \$1.14 million to study cellular and molecular mediators of Zika virus replication and investigate how Zika gets through the placental wall, which usually acts as a barrier to keep the developing fetus safe from viruses.

Facilitating clinical trials for a vaccine

Dr. Thomas Casale, a professor in the Division of Allergy and Immunology, Department of Internal Medicine, received \$1.11 million to establish an integrated Zika clinical research trial network in Florida. Working with local community experts, a team of USF faculty specializing in allergy and immunology, infectious diseases, molecular medicine, and public health will design and study new diagnostics and treatments for Zika and other emerging infectious diseases, and create a platform to educate students and the public about Zika.

Identifying natural products to combat Zika

A third grant went to USF immunologist Dr. Michael Teng, an associate professor in the Department of Internal Medicine, who received \$200,000 to study rapid identification of natural products with antiviral activity against Zika. He will work with Bill Baker, PhD, USF Department of Chemistry, to leverage existing expertise in virus research and identify potential lead antiviral compounds derived from fungal species isolated from Florida mangroves.

For more information about Zika research at USF, visit <http://www.usf.edu/zika/>.

– VJOLLCA HYSENLIKA '07 and MA '12 and ANNE DELOTTO BAIER '78 | USF Health

NEW BUSINESS

Is business the solution to climate change?

IN THE FACE OF GLOBAL CLIMATE change, which brings with it the threat of catastrophic rising sea levels, extreme weather patterns and a potential crunch on water resources, there is some hope: A proliferation of businesses poised to lead the world to a solution.

A swath of new, innovative enterprises aiming to alleviate whatever hardships come with climate change may be on the rise, sweeping in like a knight in pin-striped armor to protect coastal cities from surging tides, provide sparkling clean water to drink and, basically, save us from ourselves.

The landscape will become a place of new opportunities for entrepreneurs to get out there and do what they do best: Carve out a niche in a changing world.

“I firmly believe that business is the solution to climate change,” says Sharon Hanna-West, ’75, who teaches graduate courses in the University of South Florida’s Muma College of Business and is affiliated with the Patel College of Global Sustainability. “Much of our environmental harm can be traced to economic activity, so it stands to reason that it has to be business, by changing fundamental business models that will turn this ship around.”

Relying on governments to respond is not the answer, she says. Governments tend to work too slowly.

“Only the power of business is big enough and fast enough to do it,” she says, “and the movement is well underway.”

Hanna-West, the former USF Exide Distinguished Lecturer in Ethics and Sustainability, teaches graduate courses that include business ethics, environmental law and sustainable business practices in a course referred to as the S-Lab.

The secret to success, she says, is changing some business models and methods of sustainability, which in simple terms is defined as this: Businesses must meet the needs of the



Photo: RYAN NOONE | USF Communications

present without compromising the ability of future generations to meet their needs.

In other words, don’t deplete resources for a quick buck.

Water resources fall under that model as well, Hanna-West says. Business will play a huge role in the availability of clean water. The technical solutions needed to solve this problem don’t get implemented in isolation, she says.

They are developed through research in universities, in the private sector or through partnerships of both; but more often than not, they are brought about by business. One thing is for sure, clean water is needed for humankind to survive.

“I don’t understand how on a planet that is 75 percent water we have not developed more ways to convert seawater to meet the needs of our growing population,” she says. “Instead, access to fresh water is increasingly becoming a source of conflict.”

Whether the conversation is climate change or the availability of water resources, the answer is sustainability, she says. And, while the concept is catching on, much more needs to be done.

Nearly all of the Fortune 500 companies today publish sustainability reports. They have sustainability staff and consultants, Hanna-West says. The 500 group is more important to our economy than ever before,

“

Only the power of business is big enough and fast enough to do it, and the movement is well underway.”

– Sharon Hanna-West

as some have annual corporate revenues that surpass the GDP of entire countries. The influence of those corporations can be a powerful force of positive change.

But the rest of the economy – all businesses – need to get on board.

“Many have no literacy in this area,” she says, “and that’s why we developed these college business courses and we give students the opportunity to help real companies get started.”

In the end, she predicts that business, pushed by the profit motive and a newly instilled sense of global stewardship, will walk the world back from the ledge.

“I think we are opting to solve this problem,” she says.

– KEITH MORELLI ’78 | MUMA College of Business

PHOTO: *Water-Logged*, an artwork created by Honors students in a class that combines history, art and environmental science, was displayed in USF's Honors College.



Photo: AMY HARROUN '05 | Honors College

WITH HONORS

Weeki Wachee Springs trip brings water issues alive for USF students

HONORS COLLEGE SOPHOMORE and cell and molecular biology major Kelsey Current didn't know when she began Catherine Wilkins' Florida History class that a discussion about the state's water resources would lead her to a new perspective about global health.

The class studied the state's aquifer and natural springs, which are currently threatened by increased

took the class to Weeki Wachee Springs to see one of the state's water resources up close and to learn more about how important protecting it is for future generations.

The students discussed how sea-level rise impacts the aquifer and springs. "It created a sense of urgency in me to want to do something about it," says Current. "It's not just affecting humans – it impacts the ecological systems around us."

Current was especially interested in learning about how sea-level rise can impact coastal populations. "This is essential in the field of medicine, because these locations that are impacted the most are not able to relocate and that can negatively impact their health."

The Florida History class allowed Current and her classmates to examine how water issues in the local, national and global landscape can affect their chosen fields of study.

Also in the class, Jheuel Carter-Guy, a senior



It created a sense of urgency in me to want to do something about it."

– Kelsey Current

nutrients (from excessive fertilizer use), decreased discharge (from less rainfall) and increased salinity (from flow declines and sea-level rise).

Wilkins, '00, PhD '08 in Interdisciplinary History,

majoring in environmental science and minoring in international studies, says the trip helped reinforce her desire to enter a career protecting water resources.

As an international student, Carter-Guy says that learning about our state's history opened her eyes to how important water is to Florida life and made her want to learn more about these systems and the environment around her.

"You hear a lot about it in the classroom, but seeing it in person and learning that most of Florida's water comes from the aquifer reinforces how important it is to protect these springs."

Wilkins' class is not the only Honors College course that allows students from different majors to study challenges facing our water resources from a multi-disciplined approach.

Sea-level rise is addressed in a Geographies in Transformation course, where students learn what it means to live within transforming landscapes and how to collaborate to develop resilient communities.

Other students take a course on creativity and innovation in which a major project requires them to use a social entrepreneurship approach to address sea-level rise.

Yet another honors course combines history, environmental science and art, and allows students to study the pattern of sea-level rise's effect on a variety of Florida's species. As part of the class, the students collaborated to compose *Water-Logged*, an imaginative look to the future of what can happen as rising tides destroy ecologies, habitats and ways of life for a variety of species. The artwork was on display in the college this semester.

Challenges such as sea-level rise are not ones that will be easy to address, but educating students from all majors will help encourage collaboration across disciplines, which will be necessary to help find solutions.

"The Honors College is interdisciplinary inquiry in the truest sense – the topic of water is engaged from a cultural, political, natural science, public health, and engineering perspective through honors courses," says Shawn Bingham, assistant dean for academic affairs. "This is one of the rare places where undergraduates can learn that way both in the classroom and on educational trips."

– AMY HARROUN '05 | Honors College

REPRESENTING USF

USF Day at the Capitol draws students and alumni to Tallahassee

OVER 250 STUDENTS, along with alumni and administrators from around the USF System, traveled to Tallahassee on Feb. 8 for USF Day at the Capitol. This annual event, hosted by USF Student Government and university administration, gives students the opportunity to show their Bull pride, see up close how government works and advocate for the USF System with our state's leaders.

USF System students were joined by President Judy Genshaft and Regional Chancellors Sandra Stone (USFSM) and Sophia Wisniewska (USFSP) for an action-packed day at the state Capitol, meeting with more than 50 elected officials to discuss the 2017 USF System's legislative priorities. Students met with USF alumni legislators state Reps. Danny Burgess, '08; Shawn Harrison, '87 and Life Member; Chris Sprowls, '06; and Jackie Toledo, '00, as well as other elected leaders from the Tampa Bay area and the Legislature's higher education committees.

USF Day at the Capitol also included lunch with Florida Commissioner of Agriculture Adam Putnam, who spoke about the need to invest more as a state in higher education and high-demand jobs post-graduation. The day concluded with a reception at the Governor's Club, where legislators and alumni met with students.

– LAUREN HARTMANN MS '15 | Government Relations



Photo: LAUREN HARTMANN MS '15

University

Photo: CASEY CRANE | USFSP



■ Lynn Pippenger Hall is named for Largo resident and former Raymond James executive Lynn Pippenger, who gave \$5 million to USFSP in 2016 and \$10 million to the USF Muma College of Business for the Lynn Pippenger School of Accountancy in 2015.

EXPANDING BUSINESS AT USFSP

Pippenger Hall opens for business

BUSINESS STUDENTS AND FACULTY at the University of South Florida St. Petersburg now have a cutting-edge building where all can come together under the same roof.

Lynn Pippenger Hall, the new home of the Kate Tiedemann College of Business, opened Jan. 17 to the cheers of hundreds of community members, students, faculty and staff.

Before the building opened, business students, faculty and staff worked in classrooms and offices scattered at seven different locations across campus.

“This will improve how students learn, how faculty teach and how the community engages with us,” says regional chancellor Sophia Wisniewska.

The four-story, 68,000-square-foot building has more than 20 classrooms and open meeting spaces, and a 200-seat auditorium. It’s named for Pippenger, MBA ’88, who donated \$5 million to USFSP in 2016. Construction funding came via the state legislature, with support from the Pinellas County Delegation, the City of St. Petersburg and the St. Petersburg Chamber of Commerce.

The building includes state-of-the-art labs and spaces for collaborative work, reflecting today’s

Photo: BRANAMAN PHOTOGRAPHY



PHOTOS: USFSP Business students view the dedication ceremony from the walkways of Lynn Pippenger Hall.

From left: Lynn Pippenger, Kate Tiedemann, and Ellen Cotton join faculty, staff, students and community members at the official opening ceremony.

corporate environments.

“We’re in a region where we have Raymond James, Franklin Templeton and other large financial services firms, so we want to make sure we have a strong finance program that will help us build the talent that will serve the community,” says college dean Sridhar Sundaram. “They’ll have 24 terminals that will connect with the data, and we’ll have a real portfolio that our students will manage with the guidance of faculty, so the idea is to train our students and serve the talent needs of the community.”

— CASEY CRANE '06 | USFSP

NEW STUDENTS

USF Sarasota-Manatee welcomes an Olympian for the second time

BMX CYCLIST AMANDA CARR, who competed in the Rio Olympics last summer, is among the incoming class of spring students. The 26-year-old is pursuing a business degree, entering as a junior.

“USF is established nationally and its business program [at USF Sarasota-Manatee] is recognized at a high level,” she says.

Carr is president of Charlotte BMX and coach of girls’ soccer at Charlotte High School in Punta Gorda. She isn’t the first Olympian to attend USFSM. Amanda Evora, a pairs figure skater who competed in Vancouver in 2010, earned a business degree in 2012.

“Carr’s experience will not only serve her well as she pursues her degree, but benefit students who can learn from her,” College of Business dean James Curran says.

Carr attended two other universities before enrolling at USFSM. A product of Charlotte High, she earned a soccer scholarship to North Carolina State before transferring to Florida State to compete in the heptathlon.

Watching the 2008 Beijing Olympics one night, she recognized many BMX competitors and realized she could compete at their level. BMX was debuting at the games and Carr had excelled in the sport since childhood. Within days, she resolved to leave school to train full-time for the U.S. national team.

The decision surprised her parents, who

supported her but with the caveat she pursue her degree following her Olympic career. She agreed. Her goal: London 2012.

She progressed steadily through the rankings and was an odds-on favorite to qualify for the U.S. team until a collision two months before the games knocked her out of contention. Dejected, she might not have ever competed again if not for a coach who suggested she train for the Rio games as a Thai athlete.

Carr pondered the offer. Though born in Port Charlotte, her mother, Lamoon Carr, comes from northeast Thailand and as a child Carr traveled there often to visit relatives. She was always proud of her heritage.

A few months later, she accepted and started training again. In 2014, she won gold at the Asian Games at Incheon, South Korea. Two years after that, she was entering Maracanã Stadium in Rio in the parade of nations, her Olympic dream coming true.

Though she didn’t advance past the semi-finals, Carr cherishes having competed. “I remember at the starting gate looking over and seeing my parents. It was surreal. It was the kind of thing where I wanted to soak in every moment.”

Now, she’s fulfilling the promise she made to her parents. “What happens next is I’ll finish my degree. After that, I want to see where life takes me.”

— RICH SHOPEL | USF Sarasota-Manatee



Photos: Courtesy of USFSM

CONTINUED ACCREDITATION

The Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) has continued USF Sarasota-Manatee’s accreditation for 10 years.

“This is a nice holiday gift,” Regional Chancellor Dr. Sandra Stone said of the re-accreditation, granted in December.

SACSCOC is the non-governmental organization recognized by the U.S. Department of Education to accredit institutions in the southern United States. USF in Tampa, USF St. Petersburg and USF Sarasota-Manatee are all separately accredited.

Institutions seeking accreditation undergo an intensive review in how they meet nearly 100 standards as outlined by *The Principles of Accreditation*.



NEW OFFICE OF COMMUNITY ENGAGEMENT

USF Sarasota-Manatee has established an Office of Community Engagement, moving the institution closer to becoming a “Carnegie Community Engaged” campus.

Amy Farrington, right, has been named administrator and Katie O’Connor coordinator of Service Learning and Community Engagement for Academic and Student Affairs.

The changes bring USFSM closer to a “Carnegie Community Engaged” classification, a goal of its strategic plan. Accorded by the Carnegie Foundation for the Advancement of Teaching, the designation recognizes campuses for teaching, civic missions and research.

Farrington previously worked at the Greater Sarasota Chamber of Commerce. O’Connor came from Florida Gulf Coast University.

Photo: CASEY CRANE '06 | USFSP



PHOTO: Biogeochemist Joseph “Donny” Smoak’s work on mangrove and wetlands health has taken him around the world.

PLANNING FOR THE FUTURE

USFSP professor’s research focuses on health of wetlands, mangroves

FLORIDA’S COASTAL WETLANDS HOLD VALUABLE clues for scientists all over the world who are studying climate change. USFSP professor Joseph “Donny” Smoak is among those who know that sea level rise caused by global warming could severely impact the health of the wetlands ecosystems, including the state’s iconic mangrove forests.

“The systems I study are important for a number of reasons,” says Smoak, who teaches biogeochemistry in USFSP’s Department of Environmental Science, Policy & Geography. “The Tampa Bay region is a big area of ecotourism. The wetlands also offer some protection from pollution and storms.” He emphasized that these ecosystems are essential in supporting the area’s fisheries.

Smoak’s primary interest in wetlands and mangroves is how they take carbon dioxide out of the

atmosphere and bury it in a process known as carbon sequestration—a process that can be measured.

“Wetlands and mangroves are very efficient at removing carbon dioxide and burying the carbon in the soil,” says Smoak, who began studying carbon burial in the Florida Everglades in 2013 as part a collaborative research project with the National Science Foundation. He worked with USFSP graduate and undergraduate students to collect core samples—tubes of sediment approximately 10 cm in diameter and about a meter in length—to gauge the rate of soil accretion over the last 100 years. Using radiometric dating, he’s able to determine the dates and ages of the samples, and compare soil accretion rates against Key West tide gauge data, which dates back to 1913.

“Working with the students serves as a great benefit,”



... It's something we need to be aware of so we can start planning for what is going to happen in the future."

– Joseph "Donny" Smoak

says Smoak, who has worked with dozens of students during his 16 years at the university. "That's one of the values that research brings to the university: Students get hands-on experience and involvement, and they bring a tremendous amount of enthusiasm to the projects as well."

Smoak also collaborates with the U.S. Geological Survey on projects studying the impact of storm surge material on the mangrove systems in the Everglades.

"Mangrove forests might not keep pace with the rising sea level," says Smoak. "It's not a positive, good finding. But it's still significant. It's something we need to be aware of so we can start planning for what is going to happen in the future."

Smoak's work on mangrove and wetlands health has taken him to locations around the world. In 2013, he traveled to China to speak on climate change at Shenyang Agricultural University and the Nanjing Institute of Geography and Limnology, a member institution of the Chinese Academy of Sciences. In 2005, he traveled to Brazil as a Fulbright Senior Specialist and has since returned several times to work on projects with colleagues at the Universidade Federal Fluminense in Niterói. He returned to Shenyang in 2015 as a Fulbright Senior Specialist and the Chinese institution's first foreign honorary professor.

In 2016, Smoak was invited by Southern Cross University in Australia to work on mangroves with the university's biogeochemistry group in the summer. That September, he was invited to Mexico by the Universidad Autónoma de Campeche to join a mangrove wetland field expedition on the Yucatan Peninsula and to present at the institution.

Smoak received his PhD in geology and bachelor's degree in marine science from the University of South Carolina. He holds a master's degree in chemical oceanography from North Carolina State University.

– CASEY CRANE '06 | USFSP

USF COLLEGE OF EDUCATION PROFESSOR RECEIVES NATIONAL EDUCATOR OF THE YEAR AWARD

USF PROFESSOR DAVID ALLSOPP has been named the Sam Kirk Educator of the Year by the Learning Disabilities Association of America (LDA).

The national award is given to an outstanding educator in the field of special education.

Allsopp is a professor of exceptional student education in the USF College of Education, where he has taught since 2001. He also serves as the assistant dean for education and partnerships, as well as the David C. Anchin Center Endowed Chair and director of the David C. Anchin Center. He teaches at the undergraduate and doctoral levels, focusing on courses related to instructional methods for students with high-incidence disabilities and research methods for developing and validating effective practices for students with disabilities.

"As a special education professional since 1984 who has focused on students with learning disabilities and other related learning difficulties, I cannot think of a greater honor to receive than this one," Allsopp says. "Sam Kirk was a pioneer in the field of learning disabilities, and I am thankful to the Florida Learning Disabilities Association, my colleagues and my students for nominating me for an award named in his honor. I am also thankful for my numerous students who over the years I have had the pleasure of knowing and serving, and who have made me a better person, teacher and scholar."

Before coming to USF, Allsopp was a faculty member in the Special Education Program at James Madison University. He began his career as a middle school teacher for students with learning disabilities and emotional-behavioral disorders in Ocala, Fla.

"Dr. Allsopp has been a faculty member at USF for 15 years and to receive the Sam Kirk Educator of the Year Award is a tremendous national recognition," says Roger Brindley, interim dean of the USF College of Education. "As the educator of the year, Dr. Allsopp has been identified by his national peers as an exemplar and model for special educators across the United States. We are very proud of his accomplishments and delighted the Learning Disabilities Association has honored him for his career achievements."

Allsopp was recognized at the LDA's 54th Annual International Conference in Baltimore in February.

– ADAM FREEMAN | University Communications and ELIZABETH ENGASSER '15 | USF College of Education



Photo: RYAN NOONE | USF Communications

PHOTO: David Allsopp (center), professor of exceptional education, works at a Tampa charter school that serves the needs of students with disabilities.



Photos: DAVE SCHEIBER / USF Foundation

NURTURING THE NEXT GENERATION OF WOMEN SCIENTISTS

Making waves: The USF Oceanography Camp for Girls

THE SEAGULLS GLIDING beneath the cloudless, blue sky at Caladesi Island have some special guests on a recent summer morning. The line of visitors, fresh off a short ferry ride from dockside in Dunedin, lug coolers, backpacks and wagons along a winding wooden path. In minutes, they step onto a stretch of pristine white sand – and into a world of wonder and discovery.

The members of this mostly female entourage have not come to bask in the sun or stroll along the surf of a beach regularly ranked as one of the best on the planet. These girls just want to have fun by working, watching and learning.

They are here to study the unseen, longshore currents beneath the placid Gulf of Mexico water; measure the impact of tides, wind and storms on the physical formation of the beach; analyze all manner of plants and shells scattered beneath their feet; and unearth the barrier island's hidden history by examining

various sediment layers in the sand.

But they are also here for another important reason – to bond with other young women who share a passion for math, biology, chemistry and a fascination with the ocean. It is a realm that has traditionally attracted more school-age boys than girls, and more professional men than women. Yet for a select group of female students entering ninth grade in Pinellas County, the University of South Florida College of Marine Science's annual Oceanography Camp for Girls (OCG) has been offering a rare glimpse into the mysteries of the sea and the physical science that surrounds it for a quarter century.

Supported by substantial aid from Duke Energy, as well as private backing through endowments, the camp is designed to remove social barriers in the learning process while building confidence in doing science – and a greater sense of self. And, at the same time, it has been leveling the sandy playing field, encouraging



We share a lot about what we know about the ocean ... but the real idea is to understand *how* we know what we know.”

– Teresa Greely

teenage girls to explore the options for careers in marine science, where males once dominated the ranks. On this particular field trip, 15 girls – accompanied by staff, USF graduate students, camp alumni and volunteers – delve into endless details of their natural surroundings. They will be followed by a second shift of 15 the next day, as part of the camp’s three-week learning experience.

“We share a lot about what we know about the ocean during these field trips, but the real idea is to understand how we know what we know,” says Teresa Greely, ’85, MS ’94 and PhD ’08, faculty director of education and outreach in USF’s College of Marine Science. She’s been a camp fixture since its second year in 1992.

The camp was born out of a National Science Foundation concern at the time that not enough girls were gravitating to the field. “We certainly have been very successful statistically in seeing more women

pursue science careers, but the trend has always been for females to choose the biological or life sciences and some chemistry,” Greely adds. “We still have a deficit in the physical and geological sciences in oceanography.”

For 2007 camp alumna Kelly Vasbinder, the chance to pour herself into those topics after graduating from middle school was too much to pass up: “This camp was everything I thought it would be and more,” recalls Vasbinder, now a USF marine science doctoral candidate. She has also returned to the camp that started her on her way, working as a counselor.

“It’s amazing – it feels like coming full circle to see kids who are just starting where I began,” she says. “And now I know even more what an impact this camp makes.”

PHOTOS: Campers at Oceanography Camp for Girls, summer 2016, perform a variety of experiments and learn from graduate students, professional marine scientists and camp alumni.

Story excerpted from *BullsTails*. Visit <http://bit.ly/29G06JE> to read more.

– DAVE SCHEIBER | USF Foundation

Athletics



Photos: USF ATHLETICS

—By TOM ZEBOLD
USF Athletics

FOOTBALL

Football anticipates a Strong season in 2017

ALL SIGNS ARE POINTING TO a momentous 2017 season ahead for USF Football with new head coach Charlie Strong at the helm.

Anticipation started to build when USF capped off a record-breaking 11-win 2016 campaign with a 46-39 overtime victory over SEC foe South Carolina in the Birmingham Bowl. Shortly after the program's first postseason win since 2010, No. 19 USF landed in the final Associated Press and Amway Coaches Poll Top 25 rankings for the first time in program history.

Excitement for 2017 skyrocketed even before the bowl game, when Strong was officially named USF's new head coach on Dec. 11. Strong reeled in consecutive top-10 recruiting classes as head coach at the University of Texas (2014-16) after taking Louisville to new heights as head coach from 2010-13. Strong led the Cardinals to back-to-back Big East championships in



2011 and 2012 after winning two national titles as a defensive coordinator at the University of Florida.

"Now it's up to me to continue to build on this foundation and continue to keep this program in the spotlight," said Strong during his introductory press conference at USF. "There's no reason why we don't go out and compete for championships year-in and year-out. It's a special place that is totally committed to winning on the field, as well as off the field."

The #BullStrong era of USF Football gained more momentum on National Signing Day. Despite a limited window to recruit at USF, Strong and his staff flipped numerous late signees in what turned out to be an impressive 18-player class that included 13 three-star recruits.

Fans will get a chance to watch Strong lead the Bulls on the field at the fourth annual USF Spring Game at Corbett Stadium on Saturday, April 15. Kickoff is set for 4 p.m., and admission is free. Strong takes over a super-talented USF team that returns 16 starters, including quarterback Quinton Flowers, who was named 2017 College Football Performance Awards National Performer of the Year.

USF's 2017 schedule has been released and fans can begin to reserve their seats for seven home games at Raymond James Stadium. The season ticket priority renewal period for all Bulls Club members began on Feb. 3 and runs through Friday, March 31. New football season ticket deposits are being taken, starting at \$50. New season ticket sales for all fans will begin on Saturday, April 8. In-person sales also will take place at the USF Spring Game. Fans can make purchases or deposits at USFBullsTix.com or by calling 1-800-Go-Bulls.

SOCCER

New coach for men's soccer

BOB BUTEHORN HAS TAKEN OVER the USF men's soccer program that keeps pumping out the pro talent.

Butehorn was named USF's new head coach in December after leading Florida Gulf Coast University to six conference regular season championships, four NCAA tournament appearances and top 25 rankings in five seasons since 2010.

Butehorn, who posted a 95-62-23 record in 10 seasons at FGCU, has earned conference coach of the year honors three times and was a member of the University of Tampa's 1981 national championship team.

Soon after Butehorn's arrival, USF continued its tradition of sending more Bulls to the pros with three players selected in the Major League Soccer SuperDraft. Midfielder/forward Marcus Epps got things started, going 25th overall to the Philadelphia Union, followed by midfielder Lindo Mfeka (28th overall, San Jose Earthquakes). Forward Nazeem Bartman, '16, (fourth round, Vancouver Whitecaps FC) became USF's 24th MLS draft selection in program history.



SOFTBALL / BASEBALL

Softball season begins

USF SOFTBALL SEASON BEGAN with a big bang off the bat of freshman Bethaney Keen.

Keen's two-run homer in the seventh inning helped USF walk off with a 5-4 win over Illinois State on Feb. 9. USF's opening weekend also included victories over Delaware and then-No. 6 Michigan.

Meanwhile, USF Baseball's mission of booking a trip to an NCAA Regional began with a series win over Iowa. The Bulls gained more momentum with a 4-2 upset win at No. 3 Florida State on Feb. 21, the program's first victory over the Seminoles since 1989.



Photos: USF ATHLETICS

TEAM PLAYER

USF basketball's Mr. 300 and Counting

JOSE FERNANDEZ HAS ASCENDED to a level no USF basketball head coach has reached before and his climb continues.

USF's all-time winningest basketball coach hugged his players, staff and loyal supporters at the Sun Dome after securing the 300th victory of his Bulls career on Jan. 17. Fernandez joined UConn's Geno Auriemma and Tulane's Lisa Stockton as the only women's basketball coaches in the American Athletic Conference to reach the milestone.

"You start to think about all the players you've coached and everybody you've worked with. It's a number, but it goes beyond that," Fernandez says. "A lot of people don't understand to get to that number you had to work with unbelievable people and coach some wonderful student-athletes in a lot of practices in those 300 wins."

Fernandez, 45, took over the USF's women's program in 2000 at the age of 29 and he's gone on to lead the Bulls to 12 postseason appearances, including the WNIT championship in 2009 and four trips to the NCAA tournament. Fernandez helped USF make its NCAA tournament debut in 2005-06 and the Bulls have reached



the NCAA second round three times, including each of the past two seasons.

USF secured its eighth 20-win season, all under Fernandez, with a 66-56 home victory over Tulane on Feb. 12. Fernandez's Bulls were ranked No. 22 nationally at the time and have been in the top 25 for most of the season.

"The programs that sustain graduation and move forward, and keep doing it, are the ones that are very, very successful," Fernandez said before the season. "Our tradition and our program speaks for itself, and that kind of stuff doesn't graduate. I feel good about this group."



WHERE ARE THEY NOW?

Athletics alumni chose a path to business

USF FOOTBALL SAW SEVERAL BULLS CONTRIBUTE to the program's success as student-athletes during a record-breaking 2016 season. What's just as important is how former USF players have gone on to become valuable members of their communities.

Here's a look at some former Bulls who have thrived in life after football.

Ryan Gilliam

Gilliam (*pictured*), who played cornerback for the Bulls in 2006-07, went on to become a self-made millionaire and author who's all about helping others. That's the main focus of Pediatric Behavioral Services, the company he started with his wife, Alysia, '09, seven years ago. Based in Orange Park, Fla., the clinic helps children with autism and other disabilities.

Gilliam also owns a consulting firm, and real estate and commercial properties, along with providing valuable business

insight nationwide. He recently appeared on CNBC's *Power Lunch* and has been featured on FOX, NBC and NPR.

Gilliam makes family a priority, a value he shares in his popular book, *The Cost of Greatness*, published in 2012. The book tells his personal story while guiding readers through starting and growing a business.

Gilliam has also stayed involved with USF's football program, speaking to the players about finances, behavior and leadership. He's proud of what the Bulls have accomplished on the field, and more importantly, what they've done away from the sidelines.

"Honestly, I'm more impressed with the GPA of the team. I'm more impressed with the character of the team and guys doing the right thing," he says. "As an institution, USF is doing great things. We want W's on the field, but we want a full program, too."

Julian Johnson

After tours of duty with the U.S. Army in Afghanistan and Iraq, Johnson, a USF linebacker from 1999 to 2003, settled in Tampa where he works as an insurance agent and coaches a high school football team.

Johnson, who graduated in 2004 with a bachelor's in interdisciplinary social sciences, was a sergeant clearing improvised explosive devices from Afghanistan's roads back in 2005-2006. A tour in Iraq followed, and then technical contract work for the Army.



He's now an agent for New York Life Insurance Co. and a chief warrant officer in the U.S. Army Reserves. A former math teacher and family man with two children, he's the defensive coordinator for Carrollwood Day School's football team.

Somehow in 2016, he also found time to attend all but one of USF's home games.

"I love it because I'm around and I get to see what truly goes on. I've gotten an opportunity to talk to the team," he says. "The coaches are doing an outstanding job with the environment they're trying to foster."

Building tradition and a strong alumni base are important to Johnson. In an effort to reunite former Bulls, he leads monthly alumni meetings at the Selmon Athletics Center.

"For an hour, we get in there and talk," he says. "Guys introduce themselves and we do a little bit of networking."

Football alumni interested in joining the group can email Johnson at JJohnson201027@gmail.com.

— Stories by TOM ZEBOLD | USF Athletics

Unstoppable

Photos: MATT MAY



Curating Happiness: Stanton Storer

ENTER STANTON STORER'S BEAUTIFUL 1926 Italianate-style home, pour yourself a glass of vintage vino and enjoy the art tour.

An eclectic collector of the unique, striking and abstract, Storer's art runs the gamut from steel sculptures forged by internationally acclaimed artists like Teresita Fernández to larger-than-life self-portraits of emerging art students.

Unlike some collectors who choose art based on investment value, Storer selects art that makes him feel, think and smile.

"I was looking for a positive influence on my life," says Storer, a self-employed oncology consultant. "Collecting fine art enhances my environment and brings me joy, satisfaction, and happiness as I walk throughout my house."

In what seems like a previous life, Storer was a workaholic. A director for an international pharmaceutical company, he clocked in 100 plus hours a week, answering emails at 3 a.m., monitoring the latest medical journals and staring at spreadsheets until his eyes blurred. Work was his life and his obsession – it consumed him.

In a twist of fate 15 years ago, Storer met two men in one night who would alter the course of his life forever.

While boarding a plane in Los Angeles, a man standing next to him received a call from his wife informing him she was filing for divorce. On the five-hour flight home, the men sat next to each other discussing life and love, sharing stories and shedding tears.

"At one point, he asked me what my passion was," said Storer, recalling that night with a ragged edge in his voice. "It was at that moment I realized that work was my only passion; I needed something else in my life."

Later that night, an introspective Storer attended the Art for Life benefit and started seriously considering art for the first time. To his surprise, he instantly fell in love with a large, dramatic and chaotic painting called *Barking Dogs Signaled the End of the 20th Century* and won the bid to purchase it. The artist, Theo Wujcik, approached him after the event to discuss loaning the piece for an upcoming exhibition.

Wujcik and Storer formed a close friendship, bonding over a shared love of art, scotch and late-night dancing. A painter, printmaker and professor at the USF School of Art and Art History, Wujcik mentored Storer on art and the nuances of techniques and mediums. Storer, in turn, supported Wujcik's art and enabled him to travel and exhibit his work worldwide.

In art, Storer found his new passion in life. He left his full-time, high-stress job and immersed himself in the art world – frequenting local galleries, traveling to exhibitions, meeting artists and collecting over 300 original pieces from around the world.

As his collection grew, so did his desire to share his passion with others and enrich the local art scene.

He became a prominent supporter of USF's Graphicstudio – a leading printmaking workshop – joining the Director's Circle (a group of distinguished donors), attending events, sponsoring exhibitions and making generous contributions to Graphicstudio's operating fund and artist-in-residency program.

"I support Graphicstudio because it is a first class,



Without Stanton, quite literally our top students wouldn't be here."

– Wallace Wilson

world-renowned atelier that produces incredibly diverse works by various artists," said Storer. "The artists at Graphicstudio are pushing the boundaries and creating new mediums and approaches to art. It's a convenient and incredible resource for students and the local community to become better educated on art, meet artists from around the world and hear them speak about their practice."

In 2013, his appreciation and respect for students completing the rigorous master of fine arts program at USF moved him to create the Stanton Storer MFA Scholarship, a \$10,000 five-year scholarship given to one student each year. And when his mentor Wujcik tragically passed away in March 2014, Storer was determined to honor and preserve his dear friend's legacy. In addition to curating over 30 of his works, Storer donated \$25,000 to establish an endowed scholarship in Theo Wujcik's name to support students studying fine art at USF.

"Without Stanton, quite literally our top students wouldn't be here," says Wallace Wilson, director of the School of Art and Art History. "We use his scholarship as a recruitment tool to attract the best art students to our program. These artists have a positive effect on our other students and help attract top faculty to our program, who want to work with really outstanding students."

Although Storer has already given in excess of \$340,000 to support visual art scholarships and programs at USF, the impact of his generosity on students and the community spans far beyond any monetary number. And Storer's not done yet – not only has he enthusiastically renewed his support for the MFA scholarship, he also intends to make a significant promise to USF as a provision in his will.

"Stanton truly saves the day," says Margaret Miller, director of Graphicstudio and the USF Contemporary Art Museum. "Sponsoring exhibits, supporting art catalogues, commissioning pieces and collecting significant works from Graphicstudio, all of those things add up and enable us to keep moving forward and serving students and the community. We couldn't continue everything we do without incredible donors and supporters like him."



Supporting student artists

Perhaps one of the most generous things Storer does is to host a Director's Circle gala dinner in his home to honor graduating MFA students. Student works rotate on monitors throughout the house and three students are selected to speak on their practice in front of an audience of USF staff and faculty, community supporters and local art collectors.

"Speaking about my practice in front of a large group of art collectors was an incredible experience," says Matthew Wicks, the first recipient of the Stanton Storer MFA Scholarship. "Stanton is a remarkable guy with a great appreciation for art and a wonderful collection. Not only did his scholarship bring me to USF and allow me to establish a new life in Tampa, but he's been instrumental in putting me in contact with people in the local art scene too."

Storer often can't resist purchasing works from USF's end-of-year student exhibitions, displaying them proudly in his home alongside works by major artists like Christian Marclay, Keith Edmier, Alex Katz and James Rosenquist, as well as pieces by his beloved friend Theo Wujcik who drew him into the art world all those years ago.

PHOTOS:
Stanton Storer's art collection includes over 300 pieces from around the world.

\$967,350,988
REASONS TO SAY
THANK YOU!

The USF: Unstoppable Campaign has raised more than \$966 million from people like you. Together we are Unstoppable. Read more about the campaign at www.unstoppable.usf.edu.

– MELISSA WOLFE '13 | USF Advancement

Protecting our **WATER**

BY LINDSAY PETERSON, PhD '16



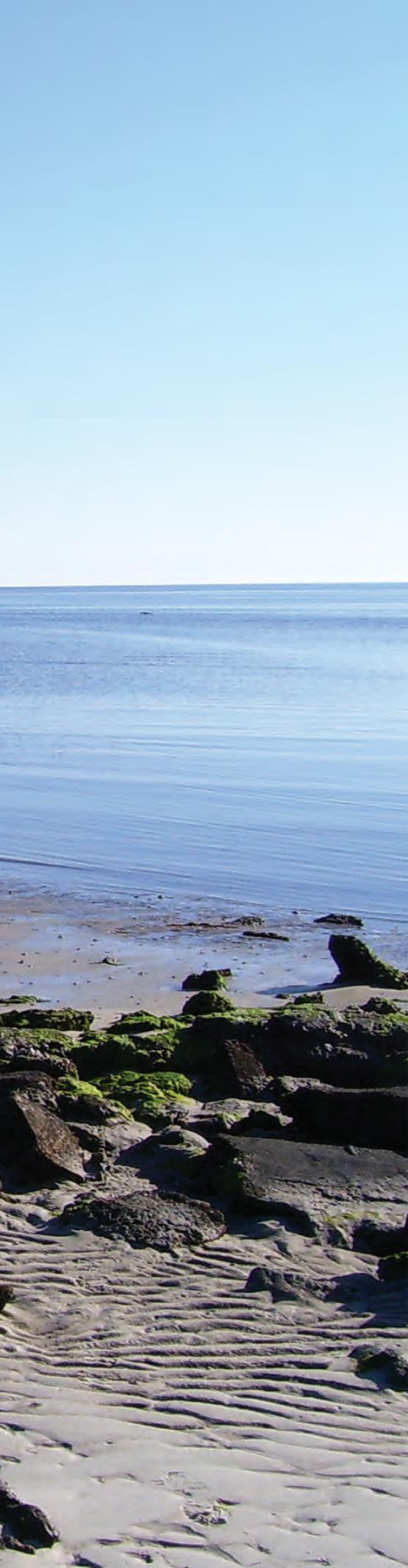


Photo: Courtesy of Valerie Harwood

Water.

The word itself is believed to be as old as human language, speaking to its essential role in our survival.

Water makes up roughly 60 percent of the human body. It covers 70 percent of the world.

It's part of an eternal cycle, rising from the ocean into the atmosphere, then falling to the ground as rain, where it gathers underground and in lakes, streams, and rivers, eventually to flow back into the ocean. Along the way, we use it to live.

We require water not only for drinking but for every aspect of our lives, from the growth and preparation of our food to the functioning of an economy that needs water for creating energy, operating a tourist resort and myriad other functions. And it touches us in ways that aren't always evident, down to the microbial level.

As the world becomes more crowded, the safety and supply of its water faces multiple challenges, both naturally occurring and man-made, many of them potentially disastrous. But scientists at USF have tracked the changes and applied their years of knowledge, whether in chemistry, microbiology or marine biology. Here's a look at what several of them are doing to detect the threats and find solutions.

Bacteria detective

When you think about dangerous, antibiotic-resistant bacteria, like the Staph bacteria known as MRSA, you probably think of a hospital or other health care facility.

Valerie Harwood, USF professor of integrative biology, suggests you think again.

Harwood is a bacteria detective. She and the researchers in her lab track down microorganisms that pose threats to our water supplies.

Their recent work examined the consequences of a 2014 sewer line break in St. Petersburg. When they investigated the water at the spill site, they found antibiotic resistant bacteria rarely found outside health care facilities.

Antibiotic resistance is one of the country's most serious health threats, sickening more than 2 million people a year and resulting in 23,000 deaths, reports the U.S. Centers for Disease Control and Prevention.

It is not just a health facility problem, Harwood says. It is a water supply problem.

USF graduate student Suzanne Young led the investigation of

PHOTO:

Asja Korakj conducts water research at Wakulla Beach, Fla. A former doctoral student of Valerie Harwood, she's now a scientist at the U.S. Environmental Protection Agency.

the St. Petersburg spill. The bacteria they found is called vancomycin-resistant enterococci (VRE). The antibiotic vancomycin is a “last-resort” treatment for infections that don’t respond to other antibiotics. The CDC lists VRE as a serious threat.

The researchers sampled the water and soil near the site for seven weeks after the spill, which released about 500,000 gallons of untreated sewage into an area near Boca Ciega Bay. They detected genes from VRE for nearly two weeks afterward, according to their paper published last July in the peer-reviewed journal *Applied and Environmental Microbiology*.

Harwood and Young didn’t expect to find VRE in the drainage ditch at the spill site, which was 2.6 miles from the nearest hospital, whose sewage flowed away from the site. Harwood called the discovery “quite concerning.”

Her worries focus largely on the discovery of a gene in the VRE that could spread to another bacterial strain. “One of our big fears is that genes that confer this (antibiotic) resistance are mobile” and could jump to another, more dangerous, pathogen.

This is what motivates Harwood and the others in her lab, where they study the genes of bacteria and viruses to track them to their source.

For Harwood, the work started when she was at the University of North Florida in 1996, and the City of Jacksonville was trying to figure out the source of fecal contamination in one of the local rivers. She didn’t know the answer; this wasn’t her specialty at the time. But one of her students brought her a paper on how to use antibiotic resistance patterns to trace fecal contamination back to its host. It launched her on the path that led to USF and the creation of her microbial source tracking lab.

She’s become an expert on the increasingly complex methods for identifying bacterial DNA, which is why Young came to USF from Barnard College in New York. She saw Harwood’s name on the lab manual for an environmental sciences class in 2011.

The lab work is intensive, but it has a clear real-world application. Harwood assists government agencies and others when they detect fecal contamination in water bodies and want to know where it came from.

The Reedy Creek Improvement District in Central Florida provided funding for Harwood’s lab to determine a bacteria source it detected. She was able to show it originated with area wildlife, not humans, which spared the district a regulatory headache.

Not all the problems are so benign, as the St. Petersburg spill demonstrated. Harwood worries about increasing contamination as growth continues and aging water systems come under more stress.

And she worries that people take their water supplies for granted.



PHOTO:
Emily Chancellor,
MS '15, examines
a burr fish on a
class research
trip in Tampa Bay.
Chancellor studies
how the Deepwater
Horizon spill may
have impacted larval
fish populations in
the Gulf of Mexico.

“Clean water for people is going to come more and more at a premium,” she says. “The more we understand what affects water quality and how to mitigate problems, the better off we will be as a society.”

But first, people need to see it’s a precious resource, “not something to squander.”

Tracking the oil

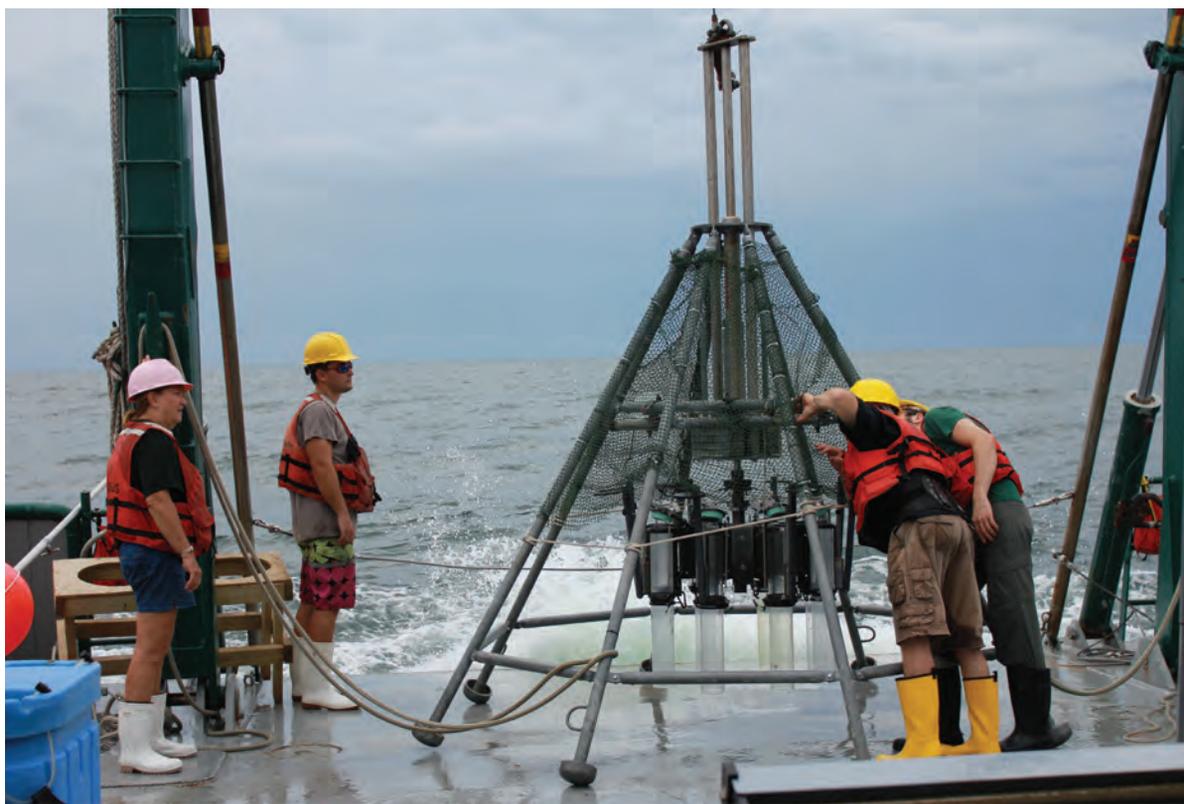
While not forgotten, the Deepwater Horizon oil spill no longer dominates Floridians’ attention as it did in the spring and summer of 2010, when 210 million gallons of oil gushed into the Gulf of Mexico after an oil rig explosion.

Not so for Steve Murawski, a professor in the USF College of Marine Science.

It’s at the surface of his mind nearly every day. Since coming to USF in 2011, he has worked to bring in more than \$30 million in grants to study the spill’s effects. There’s good news, in that the Gulf continues to sustain a great deal of life. But there was lasting damage – and it could happen again.

“I hate to say it, but it’s likely that some other accidents will happen,” he says.

That’s because of the nature of ocean oil drilling. The risks increase as drillers go deeper in search of the oil. And Murawski, who directs the Center for Integrated Modeling and Analysis of Gulf Ecosystems, wants the research community and industry to be ready for whatever comes.



PHOTOS:
Above: A researcher conducts surface drifter deployment.
Left: Scientists from USF and Eckerd College conducted a time-series study to better understand impacts from the Deepwater Horizon oil spill.

He started at USF amid the distress and urgency of assessing the Deepwater spill's impact. He'd had a long and successful career with the National Marine Fisheries Service of the National Oceanic and Atmospheric Administration (NOAA). But this was a chance to study an unprecedented threat to the health of the Gulf of Mexico, which supported fishing and tourist industries worth billions in Florida alone.

The event began with an explosion that killed 11 crew members, destroyed the rig, and allowed crude oil to gush from the ocean floor. Because the well was so deep, it took the company in charge of the drilling, BP, 87 days to cap it.

As oil spread across the Gulf surface, a massive effort began to protect beaches and wetlands from Louisiana to Florida. Part of this involved BP's use of a chemical dispersant, Corexit, which marine researchers soon

“

Clean water for people is going to come more and more at a premium. The more we understand what affects water quality and how to mitigate problems, the better off we will be as a society.”

– Valerie Harwood

realized created underwater plumes that snaked into the canyons and shelves where ocean life fed and spawned.

The spill devastated animal communities along the coast and exposed fish and corals and other bottom-dwelling creatures to oil contamination. Oil still lurks on the ocean floor. But after nearly seven years, Murawski says, the Gulf survives. It's not what he would describe as healthy, but many of the fish and other creatures that were able found places to feed and spawn beyond the spill-affected area.

“We are cautiously optimistic that we have seen the worst,” Murawski says.

That is, if there isn't another spill.

That possibility motivates his other research. He and his team are in the process of setting a baseline for the health of the Gulf overall, traveling its length and breadth to test existing contamination levels in sediments and fish. They're also building a computer modeling system, using everything they have learned about the Gulf and its biological resources to predict what would happen if another spill occurred – directly off the Florida coast, for instance.

Murawski and USF are also part of an international consortium studying the long-term effects of the 1979 Ixtoc oil spill off the coast of Mexico. It was like the

Photo: THINKSTOCK



Deepwater spill, happening in a similar area with a similar response, including the use of chemical dispersants.

“It's kind of sad that after 37 years, they're using the exact same tools,” he says. “There have to be better ways, more targeted ways that have less of an environmental footprint.”

While the Gulf has demonstrated its resilience over the past seven years, we can't let the Deepwater spill dissolve in our memories, he says. Work must be done if oil drilling and other Gulf activities are to co-exist.

“We consume Gulf oil,” he says. “We also eat Gulf seafood. We vacation at the shore. An enormous amount of economic activity depends on a healthy Gulf.”

Natural solution

When Norma Alcantar developed her research statement for USF she described her interest in fundamental materials science, such as surface forces and the basics of



PHOTO:
The prickly pear cactus can act as a nontoxic dispersant to clean water. USF professor Norma Alcantar's research is uncovering myriad ways to utilize this natural feature of the plant.

The sugars bind to the foreign substances in the water, turning them into removable clumps, or “flocs.”

Today, a decade after that work began, Alcantar is a full professor and the patented cactus research has spouted more than a dozen separate investigations with collaborators.

In 2010 Alcantar received a \$100,000 National Science Foundation grant to study how the Haiti earthquake disrupted water supplies and whether the cactus treatment could have been used to clean heavy metals and bacteria from the water. They learned that it could.

After the Deepwater Horizon oil spill, which oil company BP tried to manage by using millions of gallons of a chemical dispersant, she received funding to investigate the use of nontoxic cactus as an oil dispersant. It worked.

Last year, Alcantar and a postdoctoral researcher formed a company around aquaculture research with Mote Marine Laboratory in Sarasota.

Mote researchers sought her help to deal with the smelly compounds that formed on the fish they farmed. The bacteria would grow in the recirculating water and produce compounds that were absorbed into the fish skin, tissue, and eggs. At harvest, they would use fresh water to purge the fish of the compounds, but it took 4-6 weeks, used a lot of water, and stressed the fish.

By adding cactus mucilage in the form of beads or a powder to the recirculating water, they could help keep the water clean and reduce the purging time to about a week. The new company, Water Health and Sustainability LLC, was created to produce units that other fish farmers could use. “We’ve got 1,500 fish farmers in Florida. It’s a good market,” Alcantar says.

The next project? Using cactus mucilage to treat Alzheimer’s disease. It involves the use of an inhalable form that would dissolve the destructive plaques that form in the brains of those with Alzheimer’s.

And there are others: using cactus to create biocompatible materials for cell regeneration and putting mucilage into beets to absorb contaminants.

“I get emails every day” from people around the world with questions about how to use cactus to clean water, she says. Much of her work has focused on determining the concentration levels needed to deal with different contaminants. But even if she doesn’t know the details of the contamination, she has an answer.

It still works in the old-fashioned form, she says, just by boiling cactus and mixing that water with the contaminated water. Like her grandmother did as a child in Mexico.

how metals and biological systems work together.

But there was one thing she had always wanted to know more about, from her childhood. Alcantar grew up in Mexico, and one afternoon she was talking to her grandmother about what she’d learned in chemistry about substances used for cleaning. Her grandmother knew all about it, explaining that as a child, she would use water in which cactus had been boiled to separate the sediment from dirty river water.

There was another thing about Alcantar’s grandmother and her mother. They never gave her the full answer to her questions, only little clues, to push her to find the answers for herself.

Decades later, when Alcantar set up her lab in the Department of Chemical Engineering, she decided to work with her students to figure out exactly how the cactus – prickly pear to be precise – worked as a water purifier.

Alcantar and her team learned that the slimy meat inside a cactus pad – called mucilage – contains dozens of polysaccharides, or sugars, that act as dispersants.

Water and fertilizer for the developing world

You could call it a toilet.

Speaking scientifically, USF associate professor Daniel Yeh calls it an anaerobic membrane bioreactor.

But to Yeh, an environmental engineering researcher, it's even more. It's part of the water, energy, food nexus that will become increasingly important as the global population expands.

The elements are interconnected, and becoming more so as the energy required to grow food and meet water needs increases. But what if one system could treat waste and produce both water and fertilizer, all with minimal energy use and expense?

This is what Yeh and his USF collaborators have been working on for the past 15 years. They call it the NEWgenerator; NEW because of the nutrients, energy, and water the device produces. The system is up and running in India, in a city like many worldwide that could not build the kind of energy-intensive sanitation system so common in the developed world.

The systems that most of us depend on, with miles and miles of pipelines running to and from big treatment plants “cost more than the GDP of some countries,” Yeh says.

His NEWgenerator, however, sits in a modified shipping container and can be moved from place to place with a forklift.

Here's how it works: The waste and wastewater enter a small tank, where microbes feed on it and produce a biogas containing methane, which can be used to create energy. The waste they leave behind is filtered through a membrane that removes bacteria and viruses, producing water for irrigation. The membrane also captures nitrogen and phosphorous, key plant nutrients.

The device set up in India channels nutrients into a small hydroponic garden, including aromatic plants, attached to the side of the container. It's all powered by solar panels on the roof.

Yeh began his work while a postdoctoral researcher at Stanford University in 2002 working with Craig Criddle, who had a vision for creating an energy-neutral waste water treatment process. Yeh came to USF in 2004 and



Photos: DANIEL YEH, USF

continued the work with his graduate students.

He and his team have received support along the way, including a \$50,000 entrepreneurship prize from the Cade Museum in Gainesville, \$100,000 from the Bill and Melinda Gates Foundation, and \$200,000 from the Indian government. The Gates involvement came with a special kind of consulting.

They focused on failure, Yeh says. As the device went through its day-to-day paces in the coastal city of Trivandrum, Gates advisors continually wanted to know what was going wrong, seeking bugs to fix. “They know the value of failure. It’s how you learn,” Yeh says.

But the system proved itself, Yeh says. “If anything, we overdesigned it, so it would not fail.” He credits Robert Bair, a student who played a key role in designing and building the system, and accompanied it to India to monitor the roll-out.

“The person who built it was trouble-shooting on the spot,” Yeh says.

To be sure, there were some problems. In one case, children were taking plants and parts from the hydroponic garden. They believe it was children because

things went missing only from the lower sections. So, they changed the outside design.

Now Yeh is working with an Indian company to sell the devices across India. The company produces special self-cleaning toilets, but they need water to flush and weren’t selling in the water-scarce areas. “This is where we come in,” Yeh says.

Yeh and his team are also working with Gates to develop international standards for their “reinvented toilet,” to make it easier to manufacture from country to country. Other partnerships are in the works in South Africa and China.

“Our research is going out of the lab and into the field,” Yeh says. The researchers have several patents pending and are working on licensing agreements. “We’re at a very exciting place now.”

It’s exciting for many reasons. Commercial success, of course. But Yeh sees more. It may be hard to talk seriously about a toilet, but children die every day across the world from water-borne illnesses, he says, and a good toilet can save lives. ■



PHOTOS:

Pg. 40, top – Robert Bair, '09 and PhD '16, (left) traveled to Kerala, India, with the NEWgenerator to ensure its successful roll-out.

The device was first tested in the Pulluvila village in Kerala India (shown). The orange structures at right are the self-cleaning toilets powered by the NEWgenerator device in the center of the photo.

More about WATER

Enhancing national security efforts through water sustainability

THE HEALTH AND STABILITY OF A HUMAN population depend on three things: water, food and energy.

Thomas Crisman, a joint professor in the USF College of Public Health and College of Arts and Sciences, is working on the forefront to promote public health by addressing issues with water sustainability in the Middle East.



It's a basic human right that people have access to water."

— Thomas Crisman

Crisman works alongside the U.S. Department of State to promote NEXUS, a program addressing the interactions of energy, food and water access and how they impact the public's health.

For more than four years, he's implemented NEXUS for long-term sustainability in the Middle East and identified regions in danger of being affected by lack of water

resources, focusing primarily on Saudi Arabia and Yemen.

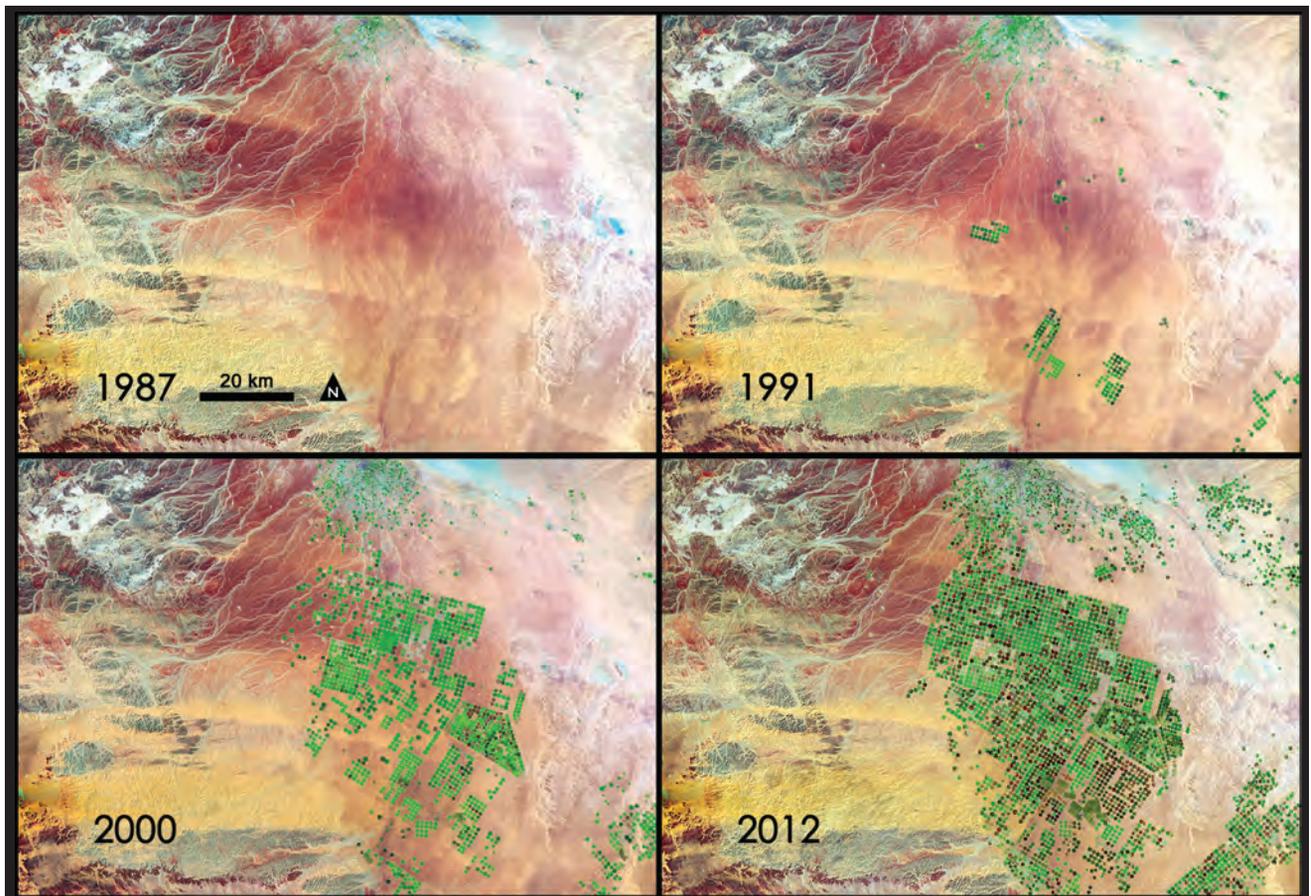
"It's a basic human right that people have access to water," Crisman says.

He and Thomas Mason, also a professor at the College of Public Health, have conducted three international workshops at USF over the past decade examining sustainability issues and national security throughout the Middle East.

They've shared those findings with partners at the U.S. Central Command, government agencies, and in the private sector to discuss how water plays a key role in the health and stability of the population.

Those findings are now being compiled into a book, highlighting the intersection of NEXUS with health and water resources that will serve as a roadmap for reaching sustainability and political stability in water-scarce regions of the world.

GRAPHIC and PHOTOS: The four satellite images of the Saudi Arabian desert at right show the increasing amount of irrigated land, indicated by the green circles. The photo on pg. 43, top left, shows a closer view of the irrigation circles. Due to increasing groundwater pumping, the region has become more dependent on desalination, leading to poor quality water and public health issues.





With 30 years of research in the region to his credit, Crisman has noted that lack of access to clean water can be the leading source of collapse for countries in the Middle East.

He hopes to impact the health of individuals living in the region through NEXUS.

“When I was a kid, my father told me that if I ever make it to give back,” he says. “So, for me, being a scientist all my life, the most important thing is to give back to people things that will help them on a daily basis.”

— ANNA MAYOR '09 and MA '12 | College of Public Health



Cheap, clean water equals a healthier world

NEARLY 1 BILLION PEOPLE AROUND THE WORLD have no access to safe drinking water, and more than 2.6 billion lack appropriate sanitation systems. These basic needs lead to widespread preventable diseases and environmental pollution.

Because the problems are most prevalent in developing countries, researchers at the Patel College of Global Sustainability are focusing on devising affordable and locally appropriate technologies for water and wastewater treatment.

Research areas include enhancing the design and performance of the conventional biosand filter technology (a simple system used since the 1800s) for household water filtration; modifying locally available filters to remove contaminants such as fluoride, arsenic and pathogens; applying indigenous biomaterials, such as moringa tree seeds; and developing on-site wastewater treatment systems to remove pathogens (that affect people) and nutrients (that affect the environment.)

PHOTO: Senior research fellow Kebraab Ghebremichael, PhD, demonstrates a biosand filter for household water treatment.

Creating tools for safeguarding our water

GLOBAL WATER RESOURCES FACE THREATS on multiple fronts: climate change, the Earth's growing population, and the continued trend toward city life. Preserving the world's water supply and finding new ways to enhance it are urgent issues that prompted the creation of the Integrated Urban Water Management Toolkit, a collaboration of the Patel College of Global Sustainability, the Global Water Partnership and the World Bank.

Developed by Seneshaw Tsegaye, PhD '13, director of the climate change concentration and key researcher, on left, the toolkit's aim is to provide sustainable solutions to water scarcity. It includes diagnostic, technology and mapping tools, in addition to tools designed to generate local buy-in. It has proved successful in several African communities, including Uganda, Kenya and the Democratic Republic of the Congo.





Photo: CAROLYN BOKI | Gyres Institute





ARCTIC MISSION

*USF alumna tackles plastic
pollution in the Arctic*

BY PENNY CARNATHAN '82

Photo: SHERRI SWANSON '14



SHERRI SWANSON, MA GLOBAL SUSTAINABILITY '14, recently joined a 5 Gyres Institute Arctic Expedition aboard the Akademik Sergey Vavilov, a Russian research vessel that journeyed from Kangerlussuaq, Greenland, to Nunavut, Canada. Swanson and her fellow crewmates sampled the Arctic waters for microplastics and man-made synthetic fibers to get a better understanding of the extent of plastic pollution circulating around the Arctic Circle.

The 5 Gyres Institute, a California-based nonprofit, was founded in 2008 to address plastic pollution through research and education and draw awareness to the problems with single-use plastics. Its successful campaign against microbeads, tiny plastic beads in some toothpastes, soaps and personal care products, resulted in President Obama signing the Microbead-Free Waters Act in 2015.

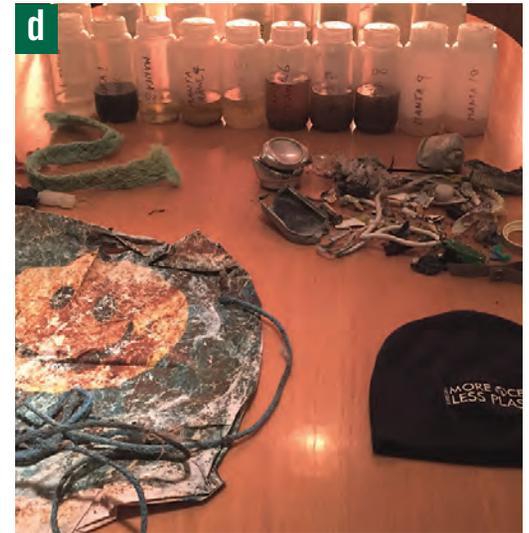
The mission for the two-week, 1,687-mile Arctic Expedition was to sample the waters above the Arctic Circle to learn how much plastic has reached this remote region of the world, which already experiences problems associated with the effects of global climate change. The 5 Gyres crew included 22 citizen scientists. The team used several survey techniques, including surface observations from the ship, pedestrian surveys along the shore, trawling behind small, inflatable boats, and water filtration using a plankton-collection methodology. They trawled the waters along the western coast of Greenland and in harbors and bays along the Lancaster Polynya, a winter refuge for wildlife including polar bears and narwhal and beluga whales.





PHOTOS

Pages 44-45: Towering icebergs near Sisimiut, Greenland, provide stunning scenery for members of the 5 Gyres Institute Arctic Expedition. Inset: Environmental scientist Sherri Swanson and 5 Gyres co-founder Marcus Eriksen filter water samples for synthetic microfibers near Devon Island at Nunavut, Canada.



The data collected will be processed by oceanographers at Louisiana State University and will be used to better understand the distribution of microplastics across the North Atlantic Gyre, one of the world's five major gyres, or ocean current systems. It will also be used to recalibrate the 5 Gyres ocean model that estimates the global concentration of plastic pollution in the oceans.

Plastic – in its many forms – has become a major source of ocean pollution. It includes discarded fishing debris, land-based garbage, shoreline litter, and synthetic clothing fibers that pass through washing machines and sewage systems. It was estimated in 2014 that the planet's oceans contained more than 270,000 tons of plastics (5.25 trillion pieces), which threaten both wildlife and humans. Plastics contain hazardous chemical components and absorb additional pollutants from the environment. When ingested by zooplankton, tiny organisms that live in our oceans, those toxins are passed up the food chain by the animals that eat them – fish eat plankton, fish eat fish, humans eat fish.

The trip was the 17th expedition by the 5 Gyres Institute. Swanson, an environmental scientist, joined as an unpaid volunteer to support the 5 Gyres Institute's mission to bring awareness of the problems with plastic pollution through science, art, education and adventure. To learn more about the institute or to get involved with the work it does, visit www.5gyres.org. ■

a An abandoned Hudson's Bay Company fur trading post and the Russian research vessel Akademik Sergey Vavilov appear to be the only signs of humanity in Prince Regent Inlet, however, tiny plastics pollute even these remote waters.

b Some of the Arctic Expedition's 22 volunteer citizen scientists trawl Greenland's Disko Bay in Zodiac boats to collect plastics on the water's surface.

c From her cabin porthole, Swanson catches a view of icebergs in western Greenland's Ilulissat Icefjord.

d The Arctic Expedition found plenty of plastics large and small on its 1,687-mile research journey above the Arctic Circle.

e Swanson catches sight of a polar bear mother and cub along the shore, just one of the marvels spotted on her two-week expedition.



FLORIDA'S BURIED TREASURE

With the state's iconic springs under siege, Michael Babb, MBA '02, shares a crystal-clear success story.

BY PENNY
CARNATHAN '82

TWENTY-TWO EIGHTH-GRADERS have just gotten “lost” in the Florida wilderness. Working in pairs, they have two minutes to set up transpiration bags to coax drinking water from the plants around them. At “GO!,” they take off in all directions, racing toward native magnolias, saw palmettos and oaks with their empty gallon-sized Ziploc baggies.

“No running! You are in survival mode!” calls “Miss Vicki” Mohr, their survival instructor at Crystal Springs Preserve, a 530-acre nature sanctuary next to Two Rivers Ranch in Pasco County. “If you run, you sweat; you lose energy; you get hungry!” Later she’ll show them how they

can eat the Spanish moss hanging from trees overhead, but that’s a light snack at best.

During their day with Miss Vicki, the Gulf Coast Academy of Science and Technology students from Spring Hill, Fla., hunt for venomous snakes (the plastic variety), discuss ways to fish without a hook and line, and build wind-proof, rain-proof shelters from palmetto fronds. In past years, these same students netted crawfish and marine microorganisms for a biodiversity survey at the preserve and explored the life cycle of the clear spring water bubbling up from dozens of fissures in the limestone below.



Photo: PENNY CARNATHAN '82 | USFAA

“I just love being out here. I don’t get the chance to do this where I live. I don’t have the springs and the animals and the trees,” says Monica Steele, 13. After attending the programs at Crystal Springs, “I feel more connected; more interested in going outside in nature.”

That’s exactly what the creators of the non-profit Crystal Springs Foundation intend, says board member Michael Babb, MBA ’02, president of Two Rivers Ranch. Youngsters who enjoy woods and wildlife will be more likely to protect them – and the water that feeds them. So the foundation offers a full menu of K-12 environmental courses, all tied to National Science Education Standards, at its world-class education center. Groups pay a flat \$25 reservation fee to participate.

“We’re booked solid,” Babb says.

The school, which also offers virtual programs to students around the world and a traveling interactive learning lab, takes the battle to save Florida’s vanishing

freshwater springs to the next level – and the next generation. Two decades ago, the state had more than 1,000 springs, the highest concentration in the world. Today, they number 600 to 900, with many survivors polluted by nitrates. Crystal Springs stands out as a success story.

“Crystal Springs Preserve is an excellent example of how a privately held natural resource can be restored and protected, while also providing commercial benefits,” says Babb, a board member and past chair of the Southwest Florida Water Management District (Swiftmud), the agency responsible for protecting water resources in more than 10 counties from Levy to Charlotte.

Crystal Springs is a source of Zephyrhills Natural Spring Water. About 2 percent of the spring’s total 30 million-gallons-a-day discharge gets bottled and sold by Nestle Waters, making water, along with timber and cattle, the 14,000-acre ranch’s primary commodities. The

PHOTO: Michael Babb, MBA ’02, president of Two Rivers Ranch, shows off the heart of Crystal Springs Preserve, a 530-acre nature sanctuary surrounding 2nd magnitude springs. The water, some of which is bottled under the Zephyrhills brand, is rich in calcium, minerals and vitamins thanks to its travel through the limestone aquifer.

largest undeveloped tract of land in Hillsborough County, the ranch stretches north to Hernando County.

“So much of our sensitive lands are managed by government entities, like Swiftmud, but they’re usually better managed in private hands,” Babb says. “Two Rivers Ranch has been owned by the Bob Thomas family for four generations. They love the land; it’s in their DNA. And when you rely on a natural resource for income, you’re going to do everything you can to protect it.”

Florida’s crystal-clear springs turn streams into rivers and have fed people, woodlands and wildlife for thousands of years. They bubble up from the Floridan

“

Crystal Springs Preserve is an excellent example of how a privately held natural resource can be restored and protected, while also providing commercial benefits.”

– *Michael Babb, MBA '02*



Aquifer, the porous limestone bedrock that lies beneath the state and holds a vast river of groundwater in its cavities and crevices. Where the aquifer meets the Earth’s surface, the water springs forth, forced up and out by the high pressure below.

But in recent decades, some springs have dried up or grown sluggish because of excessive groundwater pumping to meet Florida’s water needs. Many have been polluted by nitrates from fertilizer runoff, septic systems

and animal waste, an especially ominous development. Tainted spring water indicates the groundwater that supplies 90 percent of Florida’s drinking water has been polluted as well. Last spring, the state guaranteed \$50 million a year toward restoring and protecting our springs.

At Crystal Springs, that work has been done privately.

“Twenty years ago, Crystal Springs was a public swimming hole. There were beer cans and trash all over, and the vegetation near the spring pond had been stripped out for a sand volleyball court,” Babb says. “It was being loved to death.”

Robert Thomas, whose grandfather Wayne Thomas began purchasing the Two Rivers Ranch property in 1932, had a vision for this piece of the ranch. It began with closing the swimming hole in 1996 and restoring the springs and surrounding woods to their natural state. In 2003, in partnership with Nestle, the Crystal Springs Foundation opened its educational center. Each year, 50,000 students visit.

“For some of these kids, it’s their first exposure to nature,” says Mohr, one of three teachers at the center. “We had a 16-year-old boy who’d never touched a frog because he thought they give you warts. He spent all afternoon playing with frogs!”

The center’s programs get kids excited about nature while delivering science lessons and information that will help them become good stewards of Florida’s waters.

“It’s so easy for our aquifer to be polluted; the sandy soil is so permeable,” says Babb, who became president of Two Rivers Ranch in 2009 after he and Thomas became friends and business associates. “We teach the kids how the aquifer gets polluted and what they can do to help prevent it. And we work with Nestle to educate everyone in this watershed: Which substances should not be allowed to leach into the groundwater? How close should livestock be allowed near water sources?”

Babb sees nothing unusual in being a businessman with a focus on education and conservation. He and his wife, April, have three young children who’ve spent many a weekend at the preserve.

“Sustainability is the only way to ensure our children and grandchildren have not only the water they need in the future, but also natural gems like our Florida springs. A place like this makes it easy to get kids excited about conservation.

“Water should be a passion for everyone,” he says. “It’s our most valuable natural resource.” ■



PHOTOS:

Above: To the amusement of “Miss Vicki” Mohr, right, Monica Steele’s classmates watch as she cautiously samples the edible portion of a saw palmetto frond. Students also learned how to find the tasty part of Spanish moss.

Right: Eighth-graders from Gulf Coast Academy charter school in Spring Hill, Fla., check out the live animals in the learning laboratory at Crystal Springs Preserve. Students at the education center spend little time indoors – the goal is to give them an unforgettable outdoor experience.

For more information about the Crystal Springs Foundation’s educational center, visit www.crystalspringsfoundation.org.





From your Alumni Association

My Fellow Bulls,

TO WHATEVER REALM YOUR USF education led, your accomplishments improve the quality of life for others and contribute to the success of our alma mater by helping it grow in stature and esteem. I see the positive impacts you make every day at the local, state, national and international levels, and I feel both proud and grateful.

I hope you will, too, as you discover in these pages some of the ways our fellow alumni are protecting our most vital natural resource, water, and its life-sustaining ecosystems. These Bulls naturally include scientists, such as Sherri Swanson, MA '14, who spent two weeks trawling the Arctic Ocean for micro-plastic pollution. But you'll also meet a businessman, Michael Babb, MBA '02, who's playing a leadership role in the preservation of beautiful Crystal Springs, a source of Zephyrhills Natural Spring Water.

And you'll learn how members of our Pinellas Alumni Chapter and Engineering Alumni Society teamed up on behalf of the Tampa Bay area's crown jewel during the annual USF Stampede of Service. They hauled away bags full of discarded fishing line and trash from the Skyway Fishing Pier to keep it out of the bay and away from the birds and marine life it can kill. The two groups were among 14 chapters and societies around the country whose volunteers made an impact on their communities through projects addressing everything from homelessness to hunger.

We have many reasons to celebrate our remarkable alumni and their successes and contributions, and this spring, we'll get the opportunity to do that at two lively events.

On April 28, we host the fifth annual Fast 56 Awards, recognizing the 56 fastest growing Bull-owned or Bull-led businesses. This year's class represents a diverse array of industries and sectors, and includes our first five-time recipient, Flatwoods Consulting Group led by Shannon Gonzalez, '98 and MS '04.

On May 19, we shine the spotlight on 10 alumni, all under age 35. USF has more than 100,000 millennial Bulls and our Outstanding Young Alumnus Awards single out some whose achievements will take your breath away. The honorees range from a Super Bowl champion to a legislator who became Florida's youngest elected official at 18 to a physician-attorney who donates her medical and legal services to the underserved.

Proud Bull alumni now number 315,000. We are doctors and architects, teachers and engineers, playwrights, physicists, businesspeople. We're also volunteers, civic activists, philanthropists. We save lives, fuel the economy, protect our planet and support one of the world's leading research institutions, our own great university.

No matter how small our individual contributions may seem, together they truly make the world a better place. That's what happens when Bulls unite.

JIM HARVEY, '88, LIFE MEMBER No. 2027
CHAIR, USF ALUMNI ASSOCIATION BOARD
OF DIRECTORS

Photos: PENNY CARNATHAN '82 | USFAA



Meet Your 2016-17 USF Alumni Association Student Group Leaders

Members of the USF Alumni Association support three organizations that provide special opportunities for students to develop leadership skills, connect with alumni, and build social and professional networks.

a *The Ambassadors* host dignitaries and officials throughout the USF System, assist during special events, and otherwise represent the student body. Members exemplify what it means to be a Bull, and serve as a bridge between students and alumni.

From left: Cameron Weed; Kenny Ezevillo; Tampa president Judelande Jeune; Rebecca Mesiner; Garrett Bowleg; USF St. Petersburg president Juan Salazar; Natalie Soyster; (not pictured: USF Sarasota-Manatee president Jaime Carranza)

b *Order of the Golden Brahman* (OGB) includes top student and alumni leaders who are committed to public service, working together to lead the USF community, and promoting and protecting USF throughout their lives.

From left: Ashton Lum; Chelsea Lo; Danish Hasan; president Andy Rodriguez; (not pictured: Kevin Petersen)

c *The Student Alumni Association* (SAA) is USF's largest student organization with more than 6,000 members. It provides opportunities to interact with peers and alumni, helps individuals grow skills and networks, and helps forge lifelong bonds with USF.

Back row from left: Joshua Rowell; president Natalie Soyster; Michael Manning

Seated from left: Lamonica Walkins; Jaevan Burke

THE DAY USF BECAME AN AIRPORT

*Young aviators soared on
the wings of imagination*

BY KIM FRANKE-FOLSTAD



THERE WAS SOME DOUBT, AT FIRST, as to whether the idea would even fly.

Certainly, the USF campus was wide open enough for landing a plane back in January 1973. But could the university's new aviation club, formed just that fall, get permission from the administration – not to mention, you know, the Federal Aviation Administration – to hold a bona fide fly-in right next to the student union?

The club's charter president, Bill French, '73, was feeling lucky – emboldened, perhaps, by his early success. After all, the group had started with only a handful of members, students interested in

flying and learning to fly, and grew quickly after they passed out pamphlets and held a few outings.

And they had been fortunate to get people with real-life experience involved early on. Jerry Crittenden, a popular associate professor in Communication Sciences & Disorders, became the faculty advisor. French professor Adrian Cherry had a plane. Jim Leslie, a recently retired FAA executive whose daughter, Lynda, was a club member, offered flight instruction and much-appreciated mentorship. Buck Salter, a “crazy courageous” World War II veteran and employee at the University Center, taught ground school – and told great stories.



They wore patches with a logo designed by Lynda Leslie, MS '73, a talented artist inspired by the best-selling book *Jonathan Livingston Seagull*, about a bored seagull with a passion for flight. It was an apt motif for the USF students, who combined flying and scuba diving during club activities.

They flew small planes out of airports all over the region: Tampa, Zephyrhills, Davis Islands, St. Pete-Clearwater. On weekends, the group attended air shows and fly-ins around the state.

But could they hold their own fly-in on campus? Thanks to university President Cecil Mackey, who had an aviation background and was a former director of the FAA's Office of Policy and

Development, things went well on approach. French recalls Mackey telling him, "If you think you can get the OK from the FAA, we'll go along with it."

Somehow, it happened. They broke through the red tape (probably with an assist from Mackey and Jim Leslie, French acknowledges) and made a plan. "I did my homework," French says. He mapped out a route for the planes to gain safe access to the campus and made sure there was an ambulance on site.

"[The planes] came in from the west and landed on the straight section of USF Alumni Drive, then coasted to the lawn behind the UC" – the precursor to today's Marshall Student Center, recalls



PHOTOS:
Michelle Christensen, above, revived the aviation club in 2015.

Ed and Lynda Trader were charter members of USF's first aviation club.



Ed Trader, '73, who was dating Lynda Leslie when they joined the club and married her before they graduated.

Only a maintenance shed stood along that route, French says. "There's a whole bunch of buildings there now."

The fly-in was a hit. A crowd gathered on that cold January day, shivering but eager to ogle. Bringing those aircraft on campus had, as he expected, raised even more interest in the club. "That small core grew to maybe 100," he recalls.

Now 70, a retired attorney living in Jacksonville, Fla., French says his memories of the campus fly-in have grown a bit foggy. He can't remember for certain what kind of planes they were or who flew them, besides Cherry in his Aeronca. But he does recall the pride he felt as the sun went down and its gleam reflected off the wings. "It was an amazing relief to have achieved this," he says.

It's a memory he likely prefers to his other club-related claim to fame: the day he initiated a "controlled

landing" as he and his wife (also a club member) were flying into Key Largo to meet the group. They'd managed to get around a nasty storm over the Gulf, but in doing so used more fuel than expected and had to land at a private airport. The plane "dropped like a rock," landing nose first on the runway.

No one was hurt – although French's pride took a beating. "Everybody in the club had come down for that trip," he says, laughing as he tells the tale. "The charter president crashed a plane! Back at school, I got razed a lot."

He retrieved the bent propeller and gave it to the next year's president, Life Member John Petrick, now president and general manager of American Aviation Inc. in Brooksville. He thought it would make a great "booby prize" at some future club contest.

The propeller disappeared, though, and eventually, so did the club. No one seems to know what happened to either.

A good idea is a good idea, though, and in September 2015, Michelle Christensen, '16, wondered, "How does a school this big not have an aviation-related group?"

She had no clue there had been a club in the past. She just thought it would be good to have a community of students who shared a passion for the sky. Sometimes you get so focused on studying and learning the ins and outs of flying, she says, "You forget how fun it can be."

With help from faculty and other interested students, she spread the word much as the original group had. The new aviation club carpoled to Fantasy of Flight in Polk City for its first event last year, and then they all went flying. The club now has 30 to 40 members. This year's president is Patty Fritz.

Christensen, 23, plans to continue flying. If all goes well, she'll soon be on a KC-135 Stratotanker with the 63rd Air Refueling Squadron at MacDill Air Force Base.

French? He never piloted a plane again after leaving Tampa and moving to Houston for law school – unless you count his time flying a sleigh. With a bushy white beard and a hearty laugh, he's been playing Santa Claus for decades.

Indeed, there are times he wishes he could get that old bent propeller back. "It would make a great set of antlers," he says. ■

USF Alumni Association 2016 Annual Report Summary

Fiscal year July 1, 2015 through June 30, 2016

Your Alumni Association membership supports programs and communications that provide Bulls with meaningful ways to help USF, its students and fellow alumni succeed.

Thanks to all the Association members – alumni, students, staff, faculty and friends – for making 2016 another green and golden year. Here’s a look at the numbers as of June 30, 2016.



Association Members - 36,811

That’s 5,658 student members
26,663 annual members
4,490 Life Members



Scholarships \$233,652 to 89 students



Net assets \$4,042,851

Revenue - \$2,819,177*

Membership	21%
USF Foundation support	23%
License plates	14%
Affinity partnerships	19%
Investment income	7%
Contributions	12%
Other	4%

*Revenue excludes unrealized gains/losses on investments



Your USF Alumni Association reached all-time highs in 2015-16. Thanks to the support of our almost 37,000 members, we are connecting Bulls around the world to help USF achieve preeminence.”

– Bill McCausland, MBA '96
USFAA executive director



Expenses - \$2,574,481

Administration costs	12%
Membership	21%
Programs and events	18%
Student programs	15%
Alumni groups	10%
Communications	15%
Development	9%

Social media followers - 59,834

Facebook	45,075
LinkedIn	7,699
Twitter	7,060

SALUTE TO 2016'S NEW LIFE MEMBERS

Recognizing all who became Life Members in 2016, as well as 2016 Circle of Excellence Donors and all U Club donors*

ALUMNI ASSOCIATION Life Membership represents a deep commitment to USF and our mission to advance our university by providing Bulls with meaningful ways to make a positive impact. We gratefully acknowledge all of our 4,490 Life Members with a tribute page at usfalumni.org/LMhonor. By making the complete Life Member Honor Roll permanently visible to the public, we recognize your generous contributions, which will support USF, its students and alumni in perpetuity.

The names of our 347 newest Life Members, those who joined this elite group in 2016, are published here. Thank you! Your pride and support has helped make USF a state-designated emerging preeminent research institution on track to achieve elite preeminent status in 2018.

In our Circle of Excellence, we recognize Life Members who made additional unrestricted annual gifts in 2016 as well as all 32 donors in the prestigious University Club. U Club alumni and friends have made a significant impact on USF through endowments of \$25,000 or more.

Your generosity allows us to continue to connect Bulls to one another and our school so we can share our pride, stay together, protect USF, and help our great university continue to succeed.

*Life Members who joined Jan. 1 to Dec. 31, 2016

Life Member Circle of Excellence Donors

University Club (U Club) Endowment of \$25,000+

The following Life Members have made a significant impact on USF through a generous endowment of \$25,000 or more.

Timmer Ahrens, #2140
Vicki Ahrens, #2139
Jean Amuso, #3112
Philip Amuso, #3111
Angela Brewer, #594
James Brewer, #850
Anne Craft, #3985
Wilson Craft, #608
Daniel Dennison, #1935
Nancy Dennison, #1934
Roger Frazee, #500
Daniel Harper, #1954
Mary Harper, #1953
Ben Heugel, #1421
Lisa Provenzano Heugel, #1420
Gail Jacobs, #3273
Ricky Jacobs, #1901
Anila Jain, #132
Kailash Jain, #1060
Mona Jain, #631
Roy Jewell, #755
Aileen Marti, #3275
Eduardo Marti, #3274
Glen Nickerson, #1795
Betty Otter-Nickerson, #1796
Michael Perry, #2718
Michele Perry, #2717
Jeffrey Reynolds, #810
Patricia Reynolds, #809
Robert Switzer, #3836
H. Monty Weigel, #1495
MaryAnn Weigel, #2881

Diamond Level \$1,000+

Stephen Blume, #1832
Betty Castor, #161
Victor Connell, #1356
Larry Dupree, #2499
William Eickhoff, #80
John Harker, #683
David Hilfman, #263
Jennifer Leavengood, #1833
Anne McCausland, #2332
William McCausland, #2331
Karen Morris, #3061
Michael Peppers, #1774
Jack Plagge, #732
Frederick Rich, #1956
Dawn Van Fleet, #4170
Bruce Van Fleet III, #4169

Emerald Level \$500-999

Kimberly Choto, #1019
Karen Fedyszyn, #2333
Richard Lane, #68
Dean Martin, #2003
Merritt Martin-Lindstrom, #2327
Pauline McPhail, #2852
April Monteith, #1422
Marc Ostroff, #1595
Ronald Pettit, #2824
Sandra Pettit, #539
Melissa Schaeffer, #3203
David Schmidt, #1020
George Schultz, #2224
Virginia Schultz, #2225
Bettina Tucker, #128
Jose Valiente, #1267
Lourdes Valiente, #2431
R. James Welz Jr., #421
Gary White, #1519

Gold Level \$250-499

Theodore Ascherfeld, #3654
Gregory Ashley, #1089
Steven Carby, #3156
Jenny Cater, #1965
Robert Clark Jr., #2639
Lawrence Collins, #318
Braulio Colon, #3958

Charles Copeland Jr., #578
Pamela Copeland, #579
Rachelle de Moya, #1538
Katharine Freeman, #668
Rick French, #474
Carl Gingola, #838
Debra Goldsmith, #3186
The Honorable Raymond Gross, #710
Barbara Harken Monsour, #2361
John Helton, #2919
Bruce Kamelhair, #2279
Bruce Koehler, #2476
Michael Lawless, #3503
William Levy, #2242
Ruben Matos, #828
Roger Monsour, #2360
Harry Pfister, #2505
Winifred Pfister, #2504
Teresa Puckett, #147
Herman Smith Jr., #2072
Jon Smith, #1858
Susan Smith, #2029
Barbara Sparks-McGlinchy, #345
Ralph Stagner, #2719
Denise Thomas, #2008
Clifford Van Leuven, #3542
Judy Wallace, #860
Lew Wallace, #859

Silver Level \$1 - \$249

Barbara Abel, #2937
Jeffrey Abraham, #1872
Joseph Adamchak, #2612
Anthony Adams, #2629
Emily S. Adams, #730
Rickey Akins, #601
Bernie Alessandrini Jr., #1266
Jo-Ann Alessandrini, #1265
Katherine Allen, #2986
Walter Amaden, #2623
Christian Anderson, #619
Lisandra Andino, #3434
Lindbergh Andrew, #559
Robert Andrew Jr., #895
Alessandro Anzalone, #3620
Patricia Anzalone, #3619
Leslie Astell, #2177



I'm still a student but I'm committed to being a lifelong supporter of USF, the school that welcomed me and gave me the chance to continue my education. Becoming a Life Member is a very easy way to do that."

– Jose Lugo Leon, Class of 2018



Richard Astor, #2833
James Ayers, #150
Eugene Balter, #1315
Susan Balter, #1316
Valerie Bame, #2528
James Bardin, #978
Nancy Bardin, #979
Alan Batt, #2567
Amy Bean, #3553
Carla Bechard, #3021
Peter Bechard, #3022
Douglas Bell, #1086
Elizabeth Bell, #486
Jeffrey Belvo, #1124
Suzette Berkman, #1721
William Besselieu III, #2115
Kathleen Betancourt, #55
Dennis Bickel, #2168
Mark Blechinger, #2830
James Bockover, #3360
Michelle Bombaugh, #2207
Victor Bowers, #2539
Carol Bromby, #3145
Isabelle Brown, #47
Lorie Brown, #1470
Richard Broyles, #1904
Victoria Bruzese, #286
John Bunch Jr., #2336
Kathleen Bunch, #2335
Scott Burgess, #4207
Margaret Burney, #2957
Fern Burr, #627
John Calfee, #2547
Christina Cameron, #3085
Anne Marie Campbell, #2688
Brian Campbell, #841
James Carlson, #1203
JoEllen Carlson, #1202
Joyce Carroll, #1227
Terry Castro, #4143
Philip Catalano, #704
Ira Chesser III, #3558
Bonnie Clark Jefferis, #140
Andrew Coe, #2293
Nathan Collins, #3583
Karen Colteryahn, #2591
Robin Conley, #2641
Edward Corristan, #3123
James Council, #1184
Alan Craig, #2659
Jessica Craig, #2658
Patrice Cunningham, #2672
Denise Davis, #3894
Marc Delaney, #989
Jan Delesline, #2580
John Delesline, #414
Jason Dent, #2427
Fermin Diaz, #3259

Jorge Dopico, #595
Randall Dotson, #2347
Vicki Dotson, #2348
Diana Doughty, #1133
Kelly Douglass, #3066
Deborah Doyle, #3238
Perlue Doyle Jr., #3237
Judith Draculan, #1857
Ernestine Dunn, #1301
Neal Dwyer, #2982
Gene Engle, #2239
Patricia Engle, #2240
Sophia Erb, #4195
Karina Findlay, #1860
Aleta Fisher, #3602
Rosemarie Fisher, #1297
Thomas Fitzgerald, #2597
Vergil Foust, #2738
Karen Frank, #779
Donald Frashier, #1691
Brenda Freebourn, #3683
Richard Freebourn Sr., #3682
Anne Fried, #2666
Robert Fuller, #2569
Kevin Gaffney, #2638
Frank Galdony Jr., #3225
Jerry Gamel, #3751
Andrew Gamson, #3758
Juan M. Garcia, #2410
Julian Garcia Jr., #1574
Roger Garner, #2538
Lisa Gear-Smith, #1415
Justin Geisler, #2094
Allen Genaldi, #824
Kathryn Gerardo, #393
Jeffrey Gillespie, #1777
Julie Gillespie, #1776
Brian Goff, #3427
Jason Good, #955
Karen Gosselin, #2846
Renynold Gosselin, #2845
Robert Guay Jr., #3391
Susan Guay, #3392
David Hall, #2570
Rosalind Hall, #547
Cynthia Harper, #588
John Harper, #587
David Harrell, #1589
Katherine Hay, #1385
John Herndon, #138
Fadwa Hilihi, #3961
Janice Hill, #507
R. Patrick Hill, #148
WayWay Hlaing, #1554
Carol Hodges, #2136
Jeannie Holliday, #1276
David Hood, #2866
Lisa Hood, #2867

Gary Hoog, #1099
Ronda Hopes, #3017
Scott Hopes, #3016
Maria Houmis, #2440
Nicholas Houmis, #2439
John Howard, #3068
Celia Howe, #1865
Joseph Howe, #1864
Joy Hugick, #2243
Jane Hussar, #1018
Lisa Jardine, #596
Richard Jenette, #2267
Barbara Jensen, #46
Joan Jernstrom, #1900
Allan Jones, #3531
David Jordan, #2729
Mary Joseph, #2366
Susan Juarez, #3107
Judith Kane, #2768
Christopher Karow, #3565
Korie Karow, #3566
Darren Kasenetz, #3939
Conrad Kearns, #1125
Robert Kelley, #2787
Kimberly Kindell, #3229
Richard Kindell, #3228
Adrienne Kinsella, #3477
Shirley Kozler, #3630
Tahlman Krumm Jr., #1678
Denise Kurt, #2709
Mary Landsberger, #527
Thomas Latto III, #1613
Frank Lewis Jr., #2627
Justin Lieneck, #3215
Kyle Lieneck, #3214
William Litton II, #307
Carol Long, #2457
John Long, #2456
Victor Lucas, #1028

Robert Mabe Jr., #3105
Hugh MacDonald Jr., #2600
Frank Maggio Jr., #395
Lora Maggio, #396
Michael Maiorana, #3439
Michele Maiorana, #3438
Michael Malanga, #4272
Lloyd Maliner, #3164
A. K. Bobby Mallik, #1344
Stacey Manley Paskowski, #3549
Paul Marton, #1307
Dennis Mason, #2691
Randall Mason, #676
Roy Mazur, #738
Jean-Anne McAllister, #1582
Thomas McAllister, #1581
James McClure, #3461
Antoinette McGarey, #3436
Donald McGarey Jr., #3435
Kathryn McGee, #707
Carol McGlaughlin, #2546
Jenny Meirose, #2271
Penni Meyer, #2715
Stephen Meyer, #2939
Thomas Meyer, #2714
Manlio Miriel, #2284
Joyce Morales-Caramella, #977
Curtis Moreau, #1662
Leslie Moreau, #1663
Lawrence Murphy, #1615
Eric Newman, #400
Lyris Newman, #399
Arthur Noriega V, #2617
Gabrielle O'Berry, #2956
Catherine O'Connor, #404
Thomas O'Lenic, #1326
Amy Padgett, #3135
Duane Padgett, #3134

L. Diane Parsons, #3166
Joseph Paskowski, #3550
Wayne Pelley, #2861
Michael Pesta, #3249
Karen Peters, #604
Trudy Pettibone, #1061
Edward Phinney, #2610
Theda Phinney, #2611
Frank Pidala, #2560
Donna Pierson, #3447
Kevin Pindjak, #2673
Mary Lou Powell, #1825
Christopher Prentice, #2306
Kristen Prentice, #2307
Sue Pugh, #2562
Rafael Ramirez Jr., #3033
Gregory Read, #1973
Richard Reichle Jr., #105
Mark Reithmaier, #2604
Elizabeth Risch, #617
Robert Risch, #618
Pedro Rivera, #1092
Teodoro Rivera III, #2034
Mary Roberson, #2354
Mary Ross, #2702
James Rush, #1290
Glenn Rybacki, #939
Gordon Ryerson III, #2622
Magda Saleh, #1878
Mohamad Saleh, #1879
Gregory Salyer, #1668
Dawn Schocken, #2496
Wolfgang Scholl, #2093
Doris Scott, #3263
James Scroggins, #2770
Christopher Seavey, #2516
Noreen Segrest, #2932
Robert Segrest Jr., #2933
Ada Seltzer, #1268

2016 Life Members salute



Working at USF I get to see firsthand the impact that a critical mass of dedicated alumni can have on our beloved school and its students. It is my honor to be a part of something this important and impactful.”

– Tracy Muir, assistant vice president, University Advancement



Patricia Shiflett, #261
Fred Sikorski, #1371
Joy Sikorski, #1370
Dale Siler, #2058
Jane Siling, #1642
Bill Smith Jr., #2799
Robert Smith, #1414
Kenneth Snead, #1296
Michael Sogan, #3255
Michelle Sowers, #2595
Antoinette Spoto-Cannons, #3243
Susan Stanton, #1270
Karen Steidinger, #2385
Darrell Stinger, #283
Jason Strickland, #3511
Louis Struikman, #3303
Paula Stuart, #1970
David Suarez, #2959
Lorraine Suarez, #2958
Elizabeth Sutton, #3378
Jennifer Swanson, #2706
John Swanson Jr., #2705
Gina Tamargo, #2620
Merrily Taylor, #1109
Robert Taylor, #1493
William Terlop, #2664
Denisse Thompson, #2679
Kemal Thompson, #3771
Michael D. Thompson, #1812
Kimberley Tillman, #2989
Sherrill Tomasino, #1409
Karl Tramer, #2175
Veronica Tramer, #2176
Richard Tron, #1435
Susan Tron, #1436
Zana Turner, #3768
Christopher Ugles, #2053
Philip Van Dusen, #3165

Gregory Vitale, #2585
Jeanne Viviani, #477
Selinda Walden, #1126
James Walker, #2780
James Wall Jr., #452
Brenda Walls, #2619
David Wandel Jr., #2272
Diane Wandel, #2273
Shelby Ware, #1556
Stephen Weihman, #2300
Ann Wellman, #3528
Mark Wellman, #3527
Scott R. Wheeler, #2675
Diane White, #2465
Cheryl Whiteman, #1845
Thomas Whiteman Jr., #1844
Timothy Wiley Sr., #2742
Jason Williams, #1653
Bernard Wilson III, #2662
Ann Wolfe, #2406
Marion Yongue, #270
James Zarinczuk, #3260

New Life Members

Melinka Accardi, #4312
Sheryl Aescht, #4182
Nichola Ahrens, #4164
Esther Alcaraz, #4189
Rias Ali, #4305
Elizabeth Allison, #4083
Robert Alwood, #4161
Steven Anderson, #4140
Paul Andre, #4121
Jennifer Appgar, #4165
Jeanette Arias, #4306
Daniel Armstrong, #4051
Melissa Armstrong, #4050
Hasan Ashkanani, #4198
Richard Atkinson, #4267

Stephanie Atkinson, #4268
Jonette Bacchus-Yates, #4124
Towana Bacchus-Yates, #4125
Melissa Barber, #4269
Erica Barden, #4146
Ahna Barefoot, #4197
Debra Barrentine, #4265
Patrick Barrentine, #4266
Dominique Barritt-McBride, #4167
Catherine Bartolotti, #4264
Jamil Bates, #4254
Abigail Baxley, #3983
Richard Baxley, #3982
Catherine Bean, #4118
William Beck, #4019
Dawn Beeson, #4033
Michelle Benvenuti, #4284
Paul Benvenuti, #4283
Matthew Bernard, #4315
Melissa Bidgood, #4131
Annette Billingsley-Cheze, #4029
Karla Black, #4293
Kenneth Blankenship, #3957
M. Leslie Blount, #4263
Anne Marie Boehm, #4192
Ronald Boehm, #4191
Janet Boland, #4242
Michael Boland, #4241
David Bowman, #3960
Pamela Bradford, #4141
Christopher Bray, #4109
Molly Bray, #4110
Bailey Broussard, #4256
Joel Brown, #4224
Michael Brown, #4223
Talitha Brown, #4184
Terry-Rene Brown, #4222

Ezzard Bryant Jr., #4093
Ivens Buchanan Jr., #4119
Edward Buggy, #4307
Scott Burgess, #4207
Tyler Burkhead, #4216
Thierry Cadet, #4274
Kristin Calnan, #4052
Natalie Carr Bustillo, #4151
April Carter, #4288
David Carver Jr., #4313
Meggie Castro, #4144
Terri Castro, #3974
Terry Castro, #4143
Niles Chalifoux, #4001
Joie Chitwood III, #4048
Lorraine Cho-Chung-Hing, #3990
Jon Chrystie, #4132
Frank Cirillo, #4280
Joyce Cleary, #4155
Brandon Clemons, #4194
Michele Clifford, #4025
Barbara Cockfield, #4206
Braulio Colon, #3958
Cheryl Concklin, #3971
Brian Conroy, #4215
Michael Conway, #3997
Sandra Conway, #3996
Robert Cooper, #4116
Ellen Cotton, #4071
Anne Craft, #3985
Michele Crump, #4244
Cynthia Cucchi, #4096
Gary Cucchi, #4095
Jacqueline Cuervo, #4113
Ronald Cuervo Jr., #4112
Jason Cunningham, #4309
Nicholas Curtis, #3993
Craig Czellecz, #4010
Erica Daley, #4298
Alicia Delgado, #4295
Brian Detwiler, #3978
Davina Devries, #4233
Michelo Dicandio, #3984
Susan Dillinger, #4286
Justin Dodson, #4145
John Doll, #4158
Mary Dooley, #4037
Derrick Dunbar, #4088
Theodore Dwyer, #4021
Natasha Eby, #4053
Karla Edwards, #4248
Claudius Effiom, #4154
Chris Emery, #4157
Sophia Erb, #4195
Jennifer Erdmann, #4120
Carrie Eskelund, #3963

Kristen Everett, #4296
Andrea Falvey, #4212
Lynda Farris, #4023
Brandon Faza, #4011
Janet Feliciano, #4205
Anthony Ferraro III, #4072
Drew Fidler, #4258
Shelby Finman, #4034
Marlana Fountain, #4091
Steven Fountain, #4090
Lester Fox Jr., #4188
Anddrikk Frazier, #4277
Jay Friedman, #4063
Kristin Fulton Goodrich, #4289
Anthony Gambino, #3980
Crystal Gambino, #3981
Juan C. Garcia, #4148
Stephanie Garcia, #3979
Franklin Gay, #4026
William Geddes, #4142
Jillian Gerding, #4068
Nicholas Gigante, #4302
David Gillett, #4199
Janet Gillis, #4111
David Goldstein, #4097
Elizabeth Gonzalez-Anleo, #4162
Ronald Gott, #4100
David Grafe, #4221
Gerald Greenspan, #4175
Catherine Gregos, #4304
John Gregos Jr., #4303
Alison Griner, #4319
Hannah Gross, #4180
Dominic Grosso, #4004
Elizabeth Guilford, #4133
Nicole Haddock, #4239
Calvin Hagins, #4015
Leeann Hagopian, #3994
Lynne Hajj, #4036
John Hamilton Jr., #4035
Edward Hamp Jr., #4103
Joy Han, #3969
Jamee Harris, #4281
Sheryl Harris, #4079
Donald Hayley, #4237
Kathy Henri, #4228
Lauren Henry, #4044
Daniel Hernandez, #4202
Rolando Hernandez, #3959
Robert Herron, #4213
Adam Highsmith, #4279
Fadwa Hilihi, #3961
Jena Hill, #4200
Trevor Hillier, #4014
Pamela Hoback, #4094
Grant Hocking, #4027



“USF has not only allowed me to craft my future, but positioned me to have a global network of mentors and friends. It is only right to give back by becoming a Life Member of the Alumni Association, the common thread that connects generations of engaged bulls.”

– *Rhondel Whyte,*
Electrical Engineering '16,
cyber risk consultant, Deloitte



Seth Hoffman, #3964
Brant Holeman, #4211
Kevin Horning, #3968
Debra Howeth, #4229
Lydia Hubbell, #4219
Noel Hulse, #4273
Teri Hunter, #4135
Scott Hurst, #3992
Rony Iraq, #4285
Adam Jackson, #4039
Wayne Jackson II, #3975
Megan Jaquiss, #4292
Garrett Johnson, #4062
Loren Jones Jr., #3977
Irene Juwono Hurst, #3991
Seth Katcher, #4173
Gail Keegan, #3966
William Keegan Jr., #3965
Steven Keshvari, #4178
Joy Kieffer, #4086
Candace King, #4190
Phillip King, #4235
Madalyn Kissel, #4168
Diane Krause, #4220
Ronald Kutz, #4238
Candace Kuzma, #4008
Vance Lambert, #4218
Sandra Lemke, #3999
Kevin Lindow, #4181
Scott Linteau, #3989
Christopher Liu, #4054
Brandi Lockard, #4042
Brian Lorentzen, #4172
John Lucas, #4082
Jose Lugo, #4214
Rafael Lugo, #4187
Brian Macheski, #4208
Scott MacNichol, #4066
Michael Malanga, #4272
Timothy Manka-Clemons, #4193
Robert Manning, #3973
Charles Marchese Jr., #4201
Katherine Marotte, #4009
Jeffrey Marple, #4291
Wilson Mathews Jr., #4308
Richard McCullough, #4163
Shelley McDuff, #4138
Roberta McKee, #4136
Christine McKelvey, #4271
Jeanette Mendy, #4030
Corey Milburn, #4003
Carla Millar, #4075
Cameron Miller, #4060
Taylor Joy Mitchell, #4006
Lisa Montelione, #4153
Taylor Montgomery, #4260

Holly Mooneyhan, #4115
Ronald Mooneyhan, #4114
Charlotte Moore, #4245
Max Moreno Madrinan, #4294
Hozael Morgan, #4102
Linda Mossey, #4160
Raymond Moulton, #4107
Barbara Muffly, #3962
Jeffrey Muir, #4150
Tracy Muir, #4149
Scott Murphy, #4183
Henry Nagel, #4204
Penny Nagel, #4203
Vanessa Negron-Vieira, #4129
Rosella Nelson, #4301
William C. Nelson, #4300
Chelsea Newberry, #4012
Suzanne Niforos, #4013
Gregg Obarski, #4047
Susan Obarski, #4046
Joyce Obedzinski, #4099
Angela Oehler, #4176
Harold Oehler, #4177
Elizabeth Osburn, #4134
Ryan Page, #4032
Lisa Parnell, #3976
Anthony Particini, #4064
Jayant K. Patel, #4020
Lisa Patterson, #4316
Philip Pawlowski, #4282
Shirley Payne, #4017
Nevena Pehar, #4255
Peter Perez-Castro, #4156
Patricia Peterson, #4230
John Petrick, #4016
Keith Portillo, #4038
Roy Potts Jr., #4147
Paul Rader, #4061
Raymond Ralls, #4002
Tara Rao, #4024
Elva Reamer, #4117
Claudia Reingruber, #4056
Bobbilee Rhodes, #4085
Samantha Ribble, #4137
Jaysen Roa, #4127
Geraldine Roach, #4092
Brian Roake, #4262
Leslie Roake, #4261
Cody Roberts, #4081
Dana Robertson, #4069
Johnnie Robinson, #3972
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Ronald Rosas, #4084
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Gregory Ross-Munro, #4074
Glenn Ruediger, #4104

Linda Ruediger, #4105
Dorothy Russ, #4101
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Mabel Sabogal, #4314
Verlon Salley, #4299
Doreen Sanford, #4108
Jean Santiago, #4031
John Sarao, #4250
Kellie Schyns, #4166
Melissa Scofield, #4078
Sandra Scott, #4174
Joseph Seward Jr., #4186
Raymond Shulstad, #4073
Debra Sinclair, #4276
Mike Sinclair, #4275
Reagan Singleton, #4290
Brenda Skinner, #4043
Tyvi Small, #4243
Bobby Smith Jr., #4087
Mary Ann Sorrentino, #4130
Jennifer Soule, #3998
Danielle Spiese, #3970
Prashanth Sridharan, #4246
Savannah Stacy, #4098
Carl Steinhoff III, #4076
Andrea Stephens, #4232
James Stewart, #4287
Michael Stoner, #4049
Dennis Stover, #4234
Michael Stuben, #4022
Ashley Sullins, #4240
Martha Sutton, #4018
Derick Tabertshofer, #4080
Duncan Taitt, #4209

Heather Tank, #4126
Katie Taylor, #4270
Jenna Teschel, #4226
Victor Teschel, #4225
Paula Texel, #4028
Benjamin Thalman, #4005
Kate Tiedemann, #4070
Renee Trepanier, #4196
Sarah Tsang, #4040
Deborah Tucker, #4227
Rena Upshaw-Frazier, #4278
Dawn Van Fleet, #4170
Bruce Van Fleet III, #4169
Matthew Van Tilburg, #4041
Hannah Veitkus, #4077
Eric Vieira, #4128
Beatrice Vietri, #3986
Andrew Villa Jr., #4139
Kristina Vorndran, #3995
Julie Ward, #4210
Rhondel Whyte, #4297
Carole Wilcox, #3988
Charles Wilcox, #3987
Latonya Williams, #4152
Michelle Williams, #4257
Roshard Williams, #4059
Jacquelyn Williams Myers, #4236
Kristopher Willis, #4217
Amanda Wintenburg, #4045
Martin Wisgerhof, #4252
Nancy Wisgerhof, #4251
Eileen Woodman, #4159
Jessica Yanson, #4007

Corey Yeung, #4065
Karen Zabow, #4057
Stephen Zabow II, #4058

Circle of Excellence donations are placed in the Executive Director's Fund for Excellence. Recognition is based on giving to the Executive Director's Fund for Excellence and the Alumni Endowment.

The honor roll reflects each Life Member's Circle of Excellence donor designation as well as their individual ordinal Life Member number. This number serves as a source of pride in commemorating a Life Member's unique place in this prestigious group.

We have made every attempt to ensure the accuracy of our honor roll. Please accept our sincere apologies for any omissions or errors.

*Life Members who joined Jan. 1 to Dec. 31, 2016

Where's Rocky?

Thanks to his many globe-trotting friends, Rocky goes places where no bull has gone before. If he joins you on your next trip, share your Bull pride by sending your photo and details to the USF Alumni Association.



a While visiting London, Life Member DeVern Smith, '75, and Rocky call on a British icon, the red telephone kiosk. With pay phones now obsolete, the booths are being repurposed into everything from micro-businesses to mini libraries.

b Rocky gets a bird's-eye view of Prague's bohemian Old Town Square with help from Isaac Bermudez, '15. The two have been traveling throughout Eastern Europe as Bermudez, an engineer, works on government installations.

c Rocky and Life Member Brian Conroy, '07, mark the 154th anniversary of the Battle of Perryville (Ky.) with the 1st Michigan Engineers and Mechanics, Company E, reenactment group.

d Future Bull Mathias, 9, keeps a firm grip on Rocky as he and his mom, Tina Judson, MEd '08, join Clearwater Marine Aquarium marine biologists for a net casting-species study. Judson teaches science with the Florida Virtual School.

e On the inaugural USF Bull Explorers trip to Cuba, Rocky joins Life Member Stephanie Holmquist Johnson, '81, MA '05 and PhD '14, at a restaurant. Among other tour highlights: The travelers took dance lessons at a "grandparents" home, puffed Cuban cigars and visited a grade-school classroom.

f Rocky samples the brew in Zagreb, Croatia, with, from left, retired Army Special Forces Col. Doug Carroll, '79 and MBA '03; Life Member Joyce Carroll, EdS '89; and Christina Carroll, MA '00. Rocky needed a rest, says Joyce Carroll, after traveling with her from Greece to Slovenia.

g From left, Hugh Kraemer, '81; his wife, Laura Kraemer, '84; Rocky; Life Member Carla Saavedra, '87, and her husband, Henry Saavedra, get sweet on the famed local honey at the Great Hall Market in Budapest, Hungary.



Chapters & Societies





Bulls make an impact

Members of alumni chapters and societies around the country donned hard hats, hair nets, aprons and tool belts for the 2017 USF Stampede of Service. They cleaned parklands, built houses and packed food for the hungry among other community service projects in observance of Martin Luther King Jr. Day.

a Raleigh, N.C., Habitat for Humanity volunteers included, left to right, Shana Geary, '12 and MPH '16; Life Member Hannah Benton, '11; Life Member EJ Benton, '09; Ben Wadsworth, '09, and David Armstrong, '78 and MA '80.

b Shane Henry, MPH '03, left, and Kathy Peterson, '87, bag crackers at the Food Bank of Central and Eastern North Carolina. Raleigh, N.C., Alumni bagged more than 1,000 pounds of food.

c Psychology Alumni pitched in at Metropolitan Ministries, a Tampa charity that serves poor and homeless families. Volunteers included, from left, Kim Read, '01, and Sara Nobles, '10.

d Music Alumni including, from left, Life Member Melissa Armstrong, '11 and MPA '16; Meredith Phipps, '16; Arupa Gopal, '07. and Life Member Kevin Lindow, '12, helped the marching bands at the Dr. Martin Luther King, Jr. Day Parade in St. Petersburg.

e The Broward Alumni helped process more than 25,000 pounds of food destined to provide about 20,000 meals to those in need.

f Raleigh, N.C., food bank volunteers included, left to right, Kathy Peterson, '87; Arun Solleti, MS '00; Life Member Kevin Jackson, '85; Life Member Karla Jackson, '88 and MS '13; Shane Henry, MPA '03; Maria Wolf, MA '07 and Bob Wolf.

Chapters and Societies

NO MATTER WHERE YOU LIVE, YOU'LL ALWAYS BE A BULL!

The USF Alumni Association has alumni chapters all over the country. We also have college and special-interest societies for like-minded alumni.

It's easy to get involved. Just email the contact person of the group you'd like to visit.



INTEREST-BASED GROUPS

Anthropology Alumni

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Architecture Alumni

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Bulls Varsity Club

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Black Alumni

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Clinical Psychology Alumni

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Music Society

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We are looking for a secret admirer.

Are you one?

Have you already provided for the University of South Florida through your will and estate plans but have yet to inform us? We invite you to let us know so we can say, "Thank you!"

Planned gifts help create the Legacy that is USF. We recognize those alumni and friends who have created their own USF Legacy through their will and estate gifts by inviting them to join the USF President's Council Legacy Society.

A gift from your will or estate can be used to support scholarship opportunities, or whatever programs you are passionate about.



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UNIVERSITY OF SOUTH FLORIDA
GIFT PLANNING

For additional information on how to share your gift and become a legacy donor, please contact the Office of Gift Planning at planned_gifts@usf.edu or 1-(813) 974-8761.

Visit our website at usgiving.org

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Heather Willis
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GEOGRAPHICAL GROUPS

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Lisa Ann Gidula
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THE 2017 USF ALUMNI DIRECTORY IS COMING!



UPDATE-A-BULL

BE SURE YOUR INFORMATION IS UP TO DATE

Watch for postcards, emails and phone calls from the USF Alumni Association's partner, Publishing Concepts (PCI), with instructions on how to update your OFFICIAL ALUMNI PROFILE



www.USF alumni.org/directory



Class Notes

60s

PATRICIA G. HILBURN, Music Education '69 and MA '74, has been appointed chief district court judge for Judicial District 3A in Pitt County, N.C. Hilburn was previously a judge for the district.



ERNEST D. PRENTICE, Physical Education '68, received a Graduate Studies Alumni Engagement Council Distinguished Alumnus Award from the University of Nebraska Medical Center. Prentice is the associate vice chancellor at UNMC.

70s

LEE E. ARNOLD II, Finance '74, has been selected by the Florida Council of 100 and Gov. Rick Scott as the 2016 recipient of the Governor's Business Leader Award. Arnold served as a USF trustee for 10 years and was a board chair. He is the executive chairman of Colliers International Florida and CEO of Colliers International Tampa Bay.

MARCIA BIDDLEMAN, Anthropology '76, has been named a 2016 American Graduate Champion by WUSF Public Media for her commitment to educational excellence. Biddleman is executive director of the Juvenile Welfare Board of Pinellas County.



PETER CARDILLO, American Studies '79, has been certified by the Florida Bar in business litigation for his fifth consecutive term. Cardillo, who represents property owners with termite damage claims, has held the certification since its creation in 1996.



KATHRYN L. DEITS, Art '72, has been appointed executive director of Florida CraftArt. Deits was previously executive director of the Lighthouse ArtCenter Museum, Gallery and School of Art in Tequesta, Fla.

PATRICIA SMUKALL, Zoology '77, participated in Miami University's Earth Expeditions global field course in Borneo last summer. Smukall teaches science at St. John Vianney School in Orlando, Fla.

80s

RICHARD M. FRANCE, Science Education '87, PhD '94 and MPH '09, is the assistant laboratory director of the Florida Department of Health's Bureau of Public Health Laboratories-Tampa. France also serves as president of the Florida Public Health Association.



JAMES L. HALL, Music '85 and Mechanical Engineering '02, has joined Pennoni's Winter Haven, Fla., office as a senior engineer specializing in water/wastewater. Hall was previously the general engineering manager of operations at Rocha Controls, an industrial automation systems integrator in Tampa.

GRAY MCEACHERN, MBA '83, has been promoted to mortgage banking officer at iAB Financial Bank. McEachern has more than 30 years' experience in the lending industry.

DANA MERRITT, MS '80, had her visual processing therapy case study published by Interactive Metronome. Merritt is a speech-language pathologist and founder of Merritt Speech & Learning, Inc. in Jacksonville, Fla.



ISRAEL MOREJON, Electrical Engineering '88, has been selected as a fellow in the National Academy of Inventors. Morejon, who holds at least 27 patents, is chief technology officer at enVerid Inc. air quality systems near Boston.



STEVEN J. REED, Marketing '85, has joined the business law, real estate and land use groups at Norris McLaughlin & Marcus, P.A. Reed was previously an adjunct professor of legal research and writing at Seton Hall University.

90s

DR. RODOLFO J. BLANDON, MD '93, has been appointed chief of staff at Cleveland Clinic Florida in Weston, Fla. Blandon will continue to be chairman of the imaging department and practice in interventional radiology.

TODD BOWDEN, Accounting '93, MEd '98 and EdD '09, has been appointed superintendent of Sarasota County Public Schools. Bowden previously served as principal of Gary Adult High School and Aparicio-Levy Technical Center, both in Tampa.

ERCILIA CALCANO, Anthropology '95 and MPH '98, received the 2016 Health Leadership Award from Tampa Hispanic Heritage and the 2016 Pathways Award, which recognizes contributions by USF staff to improving the lives of Latinos. Calcano is a social and behavioral researcher in the Department of Child and Family Studies at USF's College of Behavioral and Community Sciences.

STACY L. CARLSON, Psychology '92, has been selected as president of the Pinellas Education Foundation, a not-for-profit organization dedicated to improving educational opportunities in Pinellas County. Carlson was previously president and CEO of the Florida Philanthropic Network in Tampa.

KANDI W. DEITEMEYER, Public Relations '90, MA '96 and EdD '02, is the new president of Central Piedmont Community College in Charlotte, N.C. Deitemeyer was previously the president of College of the Albemarle in Elizabeth City, N.C.

CARLOS F. ESCOBAR, Psychology '96, has been appointed vice president and chief information officer of Adventist Health Systems in Central Florida. Escobar previously served as vice president for business systems and IT shared services at Florida Hospital.



BRIAN J. FENDER, Philosophy '96 and Life Member, was recently named to *Florida Trend* magazine's "Legal Elite" list and is the new chair of the public finance practice group at GrayRobinson, P.A.

MARK A. FERNANDEZ, Accounting & Finance '92, has joined USAMerriBank as senior vice president, marketing and communications executive. Fernandez was previously the senior vice president/chief sales officer for the Tampa Bay Rays.

TIM FITTS, Creative Writing-Fiction '94, recently published his debut collection of short stories, *Hypothermia*, through the nonprofit MadHat Press. The stories feature characters vacillating between their authoritarian, religious upbringings and their consciences.

DIANA GOLDBERG, Communication '98, is the director of Green Key Resources' new Office Support division in Orlando, Fla. Green Key was recently named to the *Orlando Business Journal's* list of top staffing companies in Central Florida. Goldberg has 14 years' experience as a recruiter and senior account executive.



CHRISTOPHER HARAK, Communication '99, has been appointed to the Miami Finance Forum board of directors. Harak is senior vice president of Blanca Commercial Real Estate, Inc.

Saturday, April 1st Beginning at 6PM

PLEASE JOIN US for a **Luau**

THE USF ALUMNI ASSOCIATION'S

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For Brahman Bash tickets and donations, please visit www.USFAlumni.org/brahmanbash

Individual ticket: \$60

Class Notes

CHARLES CHRISTIAN HART IV, MBA '99, has been named the president and CEO of Enterprise Florida. Hart is currently the president and CEO of CareerSource Florida Inc., and previously served as director of the (Florida) Governor's Office of Tourism, Trade and Economic Development.



RICHARD HERUSKA, Management '99 and Life Member, has been named an entrepreneur in residence for Tampa Bay WaVE, a business accelerator that has supported over 180 companies that have raised more than \$80 million in start-up capital. Heruska founded the AirHeads Trampoline Arena chain of entertainment centers, which he recently sold. He's a past president of the USF Alumni Association and currently serves on the USF Student Affairs Advisory Board.

KATHLEEN NEMETH, Marketing '96, was named vice president and branch sales leader for BankUnited's East Commercial Boulevard branch in Fort Lauderdale, Fla. She was previously the branch manager of Wells Fargo in Fort Lauderdale.



BRIAN QUINN, General Business Administration '90, was appointed vice president of franchise development at Choice Hotels International. Quinn was previously chief franchise officer at Red Lion Hotels Corporation.

SUSAN S. STEVENS, Elementary Education '90, has received the IRS' highest credential, the Enrolled Agent designation. Stevens is a managing partner at Santos Associates Accountants in Pembroke Pines, Fla.

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JONATHAN BELOF, Chemistry '05 and PhD '09, was presented the Presidential Early Career Award for Scientists and Engineers by President Obama. The award recognizes contributions in research and community service. Belof was honored for his work in phase transition dynamics and non-equilibrium systems, and for teaching and mentoring underprivileged students while at USF.

ANTOINETTE CARPENTER, English '08, has joined the annual giving team at the USF Foundation as administrative specialist. Carpenter was previously a teacher in the Hillsborough County School District.

MARGAURITA C. CUEVA, Education '08, participated in Miami University's Earth Expeditions global field course in Baja California, Mexico, last summer. Cueva is a teacher at Lakota Ridge Junior School in Maineville, Ohio.



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DR. BRIAN M. DERBY, MD '07, has been awarded board certification by the American Board of Plastic Surgery. Derby is a plastic surgeon at Sarasota Plastic Surgery Center in Sarasota.



ANDDRIKK FRAZIER, Engineering '01 and Life Member, has been named to the Greater Tampa Chamber of Commerce board of directors. Frazier is a managing partner at Integral Energy, LLC.

DAVINA GOULD, MA '03, has been promoted to director of communications and events at USF Health Development and Alumni Relations. Gould is the USF-Public Relations Student Society of America committee chair for the Tampa Bay chapter of the Public Relations Society of America.

LUKAS HEFTY, Elementary Education '04, MA '08, USFSP, is one of 35 recipients nationwide of the Milken Educator Award. Hefty is the engineering program coordinator at Jamerson Elementary in St. Petersburg.

STANLEY "MIKE" KUREK III, Management Information Systems '02, has joined the Tampa office of law firm Kelley Kronenberg, where he will focus on mortgage foreclosure litigation. Kurek was previously a managing member and founder of Kurek Law Firm in Valrico, Fla.

RACHEL LIVINGSTON, Interdisciplinary Social Sciences '09, has joined Mote Marine Laboratory and Aquarium as marketing manager of the Protect Our Reefs specialty license plate and grants programs.



SEAN R. MAINWARING, Economics '09, has joined Lykes Insurance as a risk advisor. Mainwaring was previously a sales director at the Anchor Insurance Group of Florida.



ADAM M. MILLER, History '01, has joined the Orlando, Fla., office of GrayRobinson Attorneys at Law in the insurance defense practice group. Miller previously worked in the Fulton County (Ga.)

public defender's office as an intern and served as an assistant to a Florida legislator.

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Class Notes

ROBERT PATTERSON, Elementary Education '09, is the Pasco County (Fla.) 2017 Teacher of the Year. Patterson is a former pro golfer who teaches fifth-graders at Veterans Elementary School in Wesley Chapel, Fla.

JOSEPH RAWDAN, Geography '01, has joined the sales team at Watson Realty's St. Augustine Beach, Fla., office. Rawdan was previously the owner of a Tampa-based pool company.

JUSTIN RESLAN, Finance '07 and MS '08, has passed the certified public accountant examination. Reslan is a software support specialist at Kerkering, Barberio & Co.

CYNTHIA RIDDELL, History '03, spoke at the 36th annual Legislative and Case Law Update Seminar. Riddell is an attorney at Sarasota's Riddell Law Group, where she focuses her practice on real estate closings, foreclosures and bankruptcy.

PHILIP ROUNDY, MA '07 and MS '08, has been elected to serve on the board of directors for the nonprofit organization Causeway. Roundy is an assistant professor of entrepreneurship at the University of Tennessee Chattanooga.

ANTHONY L. SCHUSTER, MBA '05, has been named vice president of physician services for Mease Countryside and Mease Dunedin hospitals in Pinellas County by Baycare Health System. He previously held a variety of leadership roles at Moffitt Cancer Center and Florida Hospital Tampa.

TYVI SMALL, Communication '01, MEd '04 and Life Member, has been sworn in as a Knoxville (Tenn.) Utilities Board commissioner. Small serves as executive director for talent management, diversity and community relations at the Haslam College of Business, University of Tennessee.



BRITTANY SPAZIANO, Finance '08, has joined Lykes Insurance as a risk advisor specializing in employee benefits. Spaziano was previously a professional employer consultant at Oasis Outsourcing.

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SARAH A. BALL, Accounting '14, has been admitted as partner with the accounting firm of Anderson Business Services Inc. Ball has experience in accounting, business consulting and tax.

NAZEEM BARTMAN, Communication '16, has been drafted by Major League Soccer's Vancouver Whitecaps. A former USF soccer player, Bartman led the Bulls in scoring and was twice named to the First Team All-American Athletic Conference.

EVAN BURROUGHS, Finance '13, has joined Jacobs Engineering Group as a senior operations analyst. Jacobs focuses on the aerospace and defense industries and is one of the world's largest providers of technical, professional and construction services. Burroughs, a former Muma College of Business 25 Under 25 honoree, previously worked as a financial management analyst at Northrop Grumman.

ALEXANDRIA DAVIS, Accounting and Finance '10, has been promoted to tax supervisor at CS&L CPAs after joining the firm in 2012. Davis was previously a senior tax accountant.



LAUREN DELLERT, Environmental Science and Policy '12, participated in Miami University's Earth Expeditions global field course in Australia last summer. Dellert is a teacher in the Pinellas County School District.

CATHELYN GREGOIRE, English '11, is a finalist for Hillsborough County Teacher of the Year. Gregoire teaches exceptional education English at Armwood High School in Brandon.

MARA LATORRE, Sociology '11 and MURP '16, has joined the Plant City, Fla., Planning and Zoning Department as a planner. Latorre was previously a program assistant for University Area Community Development Corporation, Inc.

BRITTANY MARSHALL, MPH '12, is an Oak Ridge Institute for Science and Education fellow with the Centers for Disease Control's National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention in Atlanta. Marshall is assigned to the prevention research branch, division of HIV/AIDS prevention.

CHRISTOPHER NORTON, Accounting '14, has been promoted to tax senior at CS&L CPAs after joining the firm in 2015. Norton was previously a senior tax accountant.

NEVENA PEHAR, Music/International Studies '12 and Life Member, has joined the annual giving team at the USF Foundation as assistant director of young alumni engagement and philanthropy. Pehar was previously development manager at the American Lung Association.

LUIS PIERETTI, PhD '10, has been promoted to industrial hygiene manager for MEMIC Group. Pieretti was previously a safety management consultant and has more than 15 years' experience in occupational safety.

KELLI PRY, Biomedical Sciences '12, has joined the USF women's golf team as an assistant coach. Pry played on the USF team from 2009 to 2012 and was previously a professional golfer.



JEFFREY TILLMAN, MPA '13, is the new assistant city manager of Auburndale, Fla. Tillman previously served as assistant city manager in Panama City, Fla., and parks and recreation superintendent for Lake Alfred, Fla.

MARIA TORRES-CROSBY, English Education '11, is a finalist for Hillsborough County Teacher of the Year. Torres-Crosby teaches sixth-grade language arts at Memorial Middle School.

GUILLERMINA VEGA, Accounting '11, has been promoted to tax supervisor at CS&L CPAs after joining the firm in 2012. Vega was previously a staff accountant.

ANDREW M. WELLMAN, Criminology '11, USFSM, has joined the Florida Law Group in Tampa. Wellman was previously an independent contractor with Global Edge Media Corporation.



TIMOTHY BARNES, '80 and MBA '98, and **BETH KNIGHTON**, '07, show off their matching dad and daughter Bull pride at the top of Grinnell Glacier in Glacier National Park, Mont.

Send Class Notes submissions and high-resolution (at least 300 ppi) photos to pcarnathan@usf.edu or mail to Penny Carnathan, USF Alumni Association, Gibbons Alumni Center, 4202 E. Fowler Ave., ALC100, Tampa, FL 33620-5455

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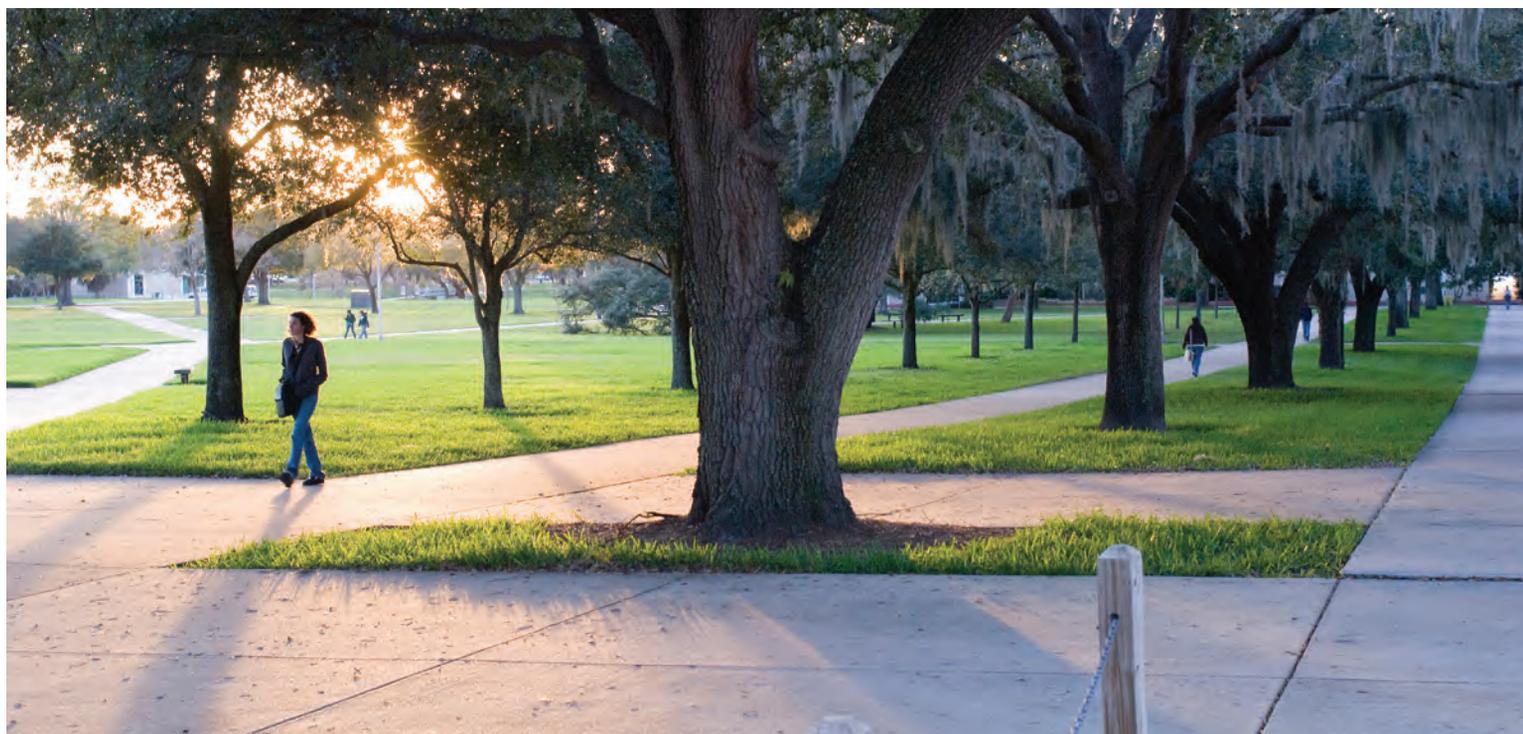
Alumni

HELEN APPLEFIELD, Interdisciplinary Social Sciences '85, Oct. 19, 2016
CHARLES BALDWIN, Zoology '77, Sept. 23, 2016
FAY S. BAYNARD, Finance '88, Jan. 14, 2017
FRANCOIS BINEAU, Foreign Language Education '69, Jan. 20, 2017
WALTER J. BLANCHARD JR., Elementary Education '73, Jan. 30, 2017
LORNA ALYSON BOGER, Biomedical Sciences '08, Oct. 6, 2016
RONALD J. BOSTON, Sociology '68, Aug. 17, 2016
BARRY BRILLHART, Accounting '65, Sept. 23, 2016
DORIS F. BURRELL, Elementary Education '71 and MA '73, Oct. 22, 2016
MARY K. BUSCH, Economics '89 and MA '96, Nov. 28, 2016
WILLIE H. CHRISTIAN, Business Economics '76, Jan. 14, 2017
WANDA S. COCHRAN, Elementary Education '68 and MA '76, Dec. 13, 2016
JIMMY JAY COPLON, Theatre '65, Oct. 30, 2016
WILLIAM "BILL" J. DENHAM JR., Social Work '93, Jan. 14, 2017
CHAD A. DICKEY, Microbiology '98, MS '02 and PhD '04, Nov. 25, 2016
JANA LEE DUNN, Marketing '84, Nov. 10, 2016
MATTHIAS DWYER, Anthropology '06, Oct. 26, 2016
ALFRED "AL" FERNANDEZ JR., Mathematics '70, Jan. 6, 2017
DR. VINCENT JAMES FRALLICCIARDI, Psychology '73 and MA '76, Sept. 19, 2016
NORMA NEAL GAUSE, English '64 and MA '67, Jan. 17, 2017
KEVIN I. FRYE, Music '90 and MM '92, Dec. 25, 2016
PAMELA S. LEE, Interdisciplinary Social Sciences '06, USFSP, Jan. 9, 2017
SANDRA Y. LEE, Marketing '87, Nov. 20, 2016
CINDY LINEBERRY, Humanities '81 and Life Member, Nov. 4, 2016
NORMAN A. MANSOUR, Political Science '69 and MS '78, Oct. 2, 2016
DR. DAVID S. MASON, Biology/Chemistry '86 and MD '90, Oct. 11, 2016
JEFFREY L. MATTHEW, Sociology '72, Dec. 19, 2016
DONNA M. MIDDLEBROOK, Special Education '77, Dec. 14, 2016
MARY KELLY MONTALTO, Economics '89 and MA '96, Nov. 28, 2016
CAROL JEAN MORRIS, Elementary Education '78 and MA '83, Jan. 31, 2017
PAULINE PAVLIS PHILLIPS, MA Library and Information Science '93, Nov. 4, 2016

SCOTT L. PIPER, Business Administration '82 and Life Member, Dec. 24, 2016
JEFFREY WORDE PONESSA, Engineering Technology '82, Dec. 22, 2016
BETTY ANN RHODES, Political Science '90, Nov. 13, 2016
SUE E. RICE, Art '78, Nov. 24, 2016
HELEN H. RICHARDSON, Elementary and English Education '67, Nov. 27, 2016
JACK B. RICHARDSON, MA Marketing Education '72, Jan. 20, 2017
GINI D. ROLLINS, Sociology '66, Oct. 18, 2016
DORIS SANDO, Management '86 and MBA '89, Oct. 11, 2016
DARLENE D. SIMS, MA Library and Information Science '71, Nov. 28, 2016
MICHELE ATWELL SMEDLEY, Elementary Education '72, Nov. 1, 2016
STEPHEN O. SODERLIND, Psychology '78 and Sociology '80, Jan. 31, 2017
WENDELL L. SPRINGFIELD, General Business Administration '63, Dec. 12, 2016
PETER GORDON STEARN, Social Work '97, Nov. 1, 2016
RUTH (BANTA) SUMNER, Elementary Education '67 and MA '72, Nov. 21, 2016
RICHARD SUTHERLAND, Speech Communication English Education '66, July 12, 2016
DEMERRIO TOBLER, student, Jan. 14, 2017
EMMA TURNER, Elementary Education '65, MA '74 and Life Member, Oct. 29, 2016
AUDREY JEAN WEBBER, American Studies '81, Dec. 8, 2016
IRMINA WHITE, Elementary Education '72, Oct. 27, 2016
JOSEPH ALAN WISE, Biomedical Sciences '10, Jan. 21, 2017
STEVEN C. WRIGHT, English '76 and MA '80, Dec. 12, 2016
SUSAN G. ZUCKER, MEd '92 and PhD '98, Nov. 27, 2016

Faculty

CARLETON H. BAKER, Founding chair, Physiology, College of Medicine, Jan. 8, 2017
PATRICIA BURNS, dean, College of Nursing, Sept. 21, 2016
EDGAR G. NESMAN, professor, Sociology, Nov. 10, 2016
JAMES CARROLL NIXDORF, academic advisor, Muma College of Business, Dec. 16, 2016
DR. SHARON PERLMAN, professor, USF Health Morsani College of Medicine, Dec. 11, 2016
ISMAIL SAKMAR, professor, Mathematics and Statistics, Oct. 31, 2016



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