

# Florida Tech TODAY

A magazine for Alumni and Friends of Florida Institute of Technology

Spring 2013

## Resurrecting Apollo

“Every time we look at this data we see something else.”

Marie McBride p. 24

**ONE BIG QUESTION** “HOW DO I KNOW IF I HAVE A GREAT BUSINESS IDEA?” p. 17





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### GO GREEN, GET ONLINE!

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photos and videos at:

**today.fit.edu**

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20	Capitol Briefing In the wake of Superstorm Sandy, it was Harry Friebe's job to assess the effectiveness of the U.S. Army Corps of Engineers' coastal protection projects ... and share that work with the vice president of the United States.
24	Resurrecting Apollo A budding planetary scientist's undergraduate internship turned into a detective story for lost lunar data.
26	LEEDing the Way in Colombia Juan Pablo Aljure is principal of one of the most sustainable schools in South America.



The seventh annual International Festival this spring attracted nearly 2,000 visitors to campus for camaraderie and cultural exchange. Local group Wah Lum Kung Fu & Tai Chi performed a Chinese folk tradition during the festivities. The lion symbolizes happiness and brings fortune and prosperity to the event. During Chinese New Year, the lion dance is meant to scare evil spirits away and bring peace to the gathering and the location.

## Florida Tech TODAY

<http://today.fit.edu>

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### Changing Addresses?

Don't leave copies of your alumni magazine behind. Send your new address to Florida Tech, Office of Development Services, 150 W. University Blvd., Melbourne, FL 32901-6975, [adv@fit.edu](mailto:adv@fit.edu)



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For reprint information, contact Florida Tech Today at (321) 674-8963, Fax (321) 674-8606 or [jtintera@fit.edu](mailto:jtintera@fit.edu).



Florida Tech Today is printed on Sustainable Forestry Initiative (SFI)® certified paper.

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## Alumni News

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COVER PHOTO: An excellent view of Mount Hadley showing abundant linear features, as photographed during Apollo 15 lunar surface extravehicular activity. NASA photo



## PRESIDENT'S PERSPECTIVE



Dear Alumni and Friends,

Welcome to a revitalized look for your *Florida Tech Today* magazine. Fresh editorial content, more photographs and expanded class notes are a few of the enhancements—we hope you enjoy.

At Florida Tech, we pride ourselves on the agility to adjust to a changing world, always looking to strengthen the university's service to its students. It's an essential element of our "high tech with a human touch" educational approach.

Earning a college degree remains one of the best predictors of professional and financial success. Since the end of World War II, the American dream has included the chance to earn a college education. Now, runaway tuition costs are transforming that dream into a nightmare for many, curtailing American competitiveness on a global scale. This is especially detrimental when it occurs at our academies with a technological focus, where professional futures are predicated on educational preparedness in ever-changing fields.

Over the past five years, tuition and fees for private, four-year colleges have increased by an average 13 percent, according to The College Board. Tuition and fees for public universities have risen an average 27 percent over the past five years. This comes as the U.S. must increase its graduates in the all-important STEM fields—science, technology, engineering and mathematics.

At Florida Tech, we have initiated stable tuition for the upcoming academic year. Three factors have empowered us to hold down the cost of college. We continually explore ways to improve efficiencies, reducing the costs of instruction; we have increased our faculty activity, as they secure more grants and contracts for their research; and we have located new sources of external funding, whether philanthropic gifts or state and federal awards.

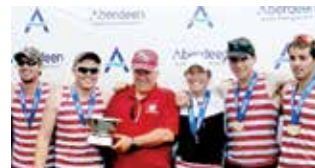
This university enriches our world by bringing technology full circle through education, research, development and community outreach. It is a model with lessons for other sectors of our society, as we have indeed learned from our business sector partners.

Discovery is the critical ingredient in the recipe for scientific progress. Without it, humankind remains stale, stagnant. Florida Tech researchers commit themselves to expanding the current boundaries of knowledge and its applications, always striving to extend the horizon. Whether it be expanding the frontiers of biomedical engineering, or learning how lightning works, that capacity for inquiry is necessary for scientific success. Faculty leadership and expertise in turn serve student success and improve the human condition. That's what makes Florida Tech The STEM University.

Since its founding 55 years ago, your university has taken seriously the notion of education supporting innovation. Today, recognized as a Tier One Best National University, Florida Tech still embodies that spirit of its earliest days ... and the future is bright indeed.

Sincerely yours,

Anthony J. Catanese, Ph.D., FAICP  
President and Chief Executive Officer



Florida Tech's varsity four won its third gold medal in program history and first since 1995 on May 11 at the 75th Anniversary of the Aberdeen Dad Vail Regatta on the Schuylkill River.

The Panthers won by 9.5 seconds at 6:39.17. President Catanese said it has been 18 years since we've won a varsity event at Dad Vail. "Hats off to those guys for breaking that streak."



NCAA Division II and CBS Sports Network announced on May 6 that Florida Tech's home game against West Alabama will be a nationally televised game on CBS Sports Network. The game is scheduled for Thursday, Sept. 19 at 8 p.m. ET at Palm Bay High School's Pirate Stadium.



The Florida Tech Research Park, a partnership of Florida Institute of Technology and Melbourne International Airport, held its grand opening on April 26 at its new location on airport property.

From left, Florida Tech CEO and President Anthony J. Catanese; Melbourne Mayor Kathleen Meehan; Phillip W. Farmer, chairman of the Florida Tech board of trustees; Pamela Gillespie, director of community relations, U.S. Congressman Bill Posey; Rick Cloutier, deputy director of aviation operations, Melbourne International Airport; and Florida Tech Senior Vice President for External Relations Winston Scott.

## Feedback From Our Readers

Tell us your Two Cents. We welcome your input on the magazine. This issue debuts a complete redesign of *Florida Tech Today*, inspired by your comments on readership surveys, analysis of peer publications and best practices from commercial magazines. You asked for bigger photos, expanded campus coverage and more Alumni News; and we listened. **Have a comment about something you've read? Want to share a memory about your FIT days? Email us at [fltechtoday@fit.edu](mailto:fltechtoday@fit.edu).**

### DEERING-IRLANDI FELLOWSHIP UPDATE

In the winter 2013 issue, the donor spotlight on **GEORGE MAUL** highlighted his efforts to endow the Deering-Irlandi Fellowship by reaching a funding level of \$25,000. The fellowship has now reached endowment status.

"We are pleased the Deering/Irlandi Fellowship has reached endowment and continues to grow. Special thanks to **LARRY POLLACK** '85 M.S. for taking it over the top," said Maul. "Now we need to increase the corpus and continue to support our students' education in honor of Bobbi Deering and Beth Irlandi, pioneers and role models in science."



### SURF THERAPY— THE SOPHOMORE EXPEDITION

In April, **DUANE DE FREESE** '81 M.S., '88 Ph.D., set out for his second surfing trip to Indonesia, the "Senior Citizens Surf Tour II." Read more about the follow-up experience to his story from the fall 2012 issue at <http://ddoceanblog.com>.

### IN THE NEXT ISSUE



## Let Us Count the Ways

2013 marks the 55th anniversary of Florida Institute of Technology. To celebrate, we're looking for your input on all the things you love about your alma mater.

## Is it...?

Research Experience

The Jungle

The Beach

Color Wars

Shuttle Launches

College Players

"The Bork"

WFIT

Buffalo Chicken Wraps

Favorite Professor or Coach

### WFIT RETROSPECTIVE

Yes, I remember this broadcast! It was in July or August of 1982. I believe it was more of a taped show, but I do remember it. Miss Susie was their teacher. I think we also interviewed some of the kids, too. They were a pretty excited bunch. They left with WFIT bumper stickers and some fun memories. I wonder if any of them became FIT students?



I'm guessing Bob Goldberg took this picture. Besides being the FIT media/photographer/graphic arts guy, he was also a great guitar player and member of the WFIT staff.

Thanks for putting John and I on the cover! I appreciate all the publicity that the student-run version of WFIT can get. I think we had a good thing going at the time. It was fun and we did provide a great listening choice in Central and South Brevard.

Kevin McLaughlin '82  
Rock Hill, S.C.

### POSITIVE PROGRESS

I can't imagine I would even recognize the campus now. Last time I was there in 2005, I was looking for the old baseball field and was totally lost. Ha! But that means there is positive progress and I'm so proud of all you ALL have done.

—EMILY DAVIS '91 via Facebook

**You tell us: [fltechtoday@fit.edu](mailto:fltechtoday@fit.edu)**



“The computer must be able to distinguish between an American and a Briton saying the word **tomato**.”

## Speech Recognition:

FROM SCIENCE FICTION TO THE NEXT BIG COMPUTING REVOLUTION

Star Wars icon C-3PO was fluent in over 6 million forms of communication. He could communicate via speech recognition technology before it was conceivable in the real world. With the 2011 introduction of Apple’s Siri, an intelligent personal assistant application for its iPhone, speech recognition technology finally found its way from science fiction movies into people’s hands. Now, many experts say speech recognition is the next big computing revolution, though not without challenges. Natural language

understanding, or NLU, is a major issue of this technology. The computer must be able to distinguish between an American and a Briton saying the word tomato. “To accommodate new accents and understand continuous speech with disfluencies, enough to automatically translate it well into a new language, is a challenge,” says **MARIUS SILAGHI**, assistant professor, computer sciences. Despite the difficulties ahead, Silaghi remains optimistic. “Speech technology will no doubt extend human capabilities because it

can be implemented in many ways,” he said. Now that Siri has sparked the next big thing in computing, the College of Engineering is rising to the occasion. A large selection of new classes and research opportunities cover most aspects of speech recognition technology, including mathematical and algorithmic elements, and improvements in the recognition of human commands and other natural sounds. The college remains poised to train an upcoming generation of “next big thing” thinkers and doers.



## Challenge Yourself

THE CONTINUING EDUCATION OFFICE IS NOW OPEN FOR REGISTRATIONS FOR THE CHALLENGE COURSE.

The Florida Tech Challenge Course empowers participants to face mentally and physically challenging obstacles while immersed in an 80-acre preserve of Florida wilderness. Located just northwest of Fellsmere and Sebastian, the Challenge Course features more than 30 obstacles and challenges that are designed to promote leadership, team building, problem solving, cooperation and more.

Organizations or groups seeking a team-building experience or an opportunity to overcome physical and mental challenges should consider trying one of the five obstacle courses offered at the Florida Tech Challenge Course.

For more information or to register your group, call (321) 674-8382 or email [pdpRegistration@fit.edu](mailto:pdpRegistration@fit.edu).

## Enriching Research

### MOVING TARGET NETWORK DEFENSE

A \$1.9 million Department of Defense award funds security research by **MARCO CARVALHO**. He leads the effort to design and implement a software-based command and control framework for moving target defense management and coordination for computer networks.



### DETECTING MALWARE AND MORE

**RICHARD FORD, WILLIAM ALLEN** and **GERALD MARIN** were awarded a patent for their work on detecting the presence of emulated environments—addressing the problem of very high-end rootkits and malware, which can imbed deep into the operating system, hiding the attacker’s presence.





THE ANNUAL SPORTING AFFAIR/  
CHOPPER DROPPER TOOK PLACE  
ON MARCH 15, 2013  
AT SUNTREE COUNTRY CLUB

**2,000** golf balls  
**\$100**  
ticket  
price

**156** golfers

**58**  
first-  
place  
team  
score

**504**  
student-  
athletes

**17** lucky  
winners

**\$50,000**  
grand prize

**0844**  
winning ball

**\$480,000**  
raised



EXPERT ADVICE:

## Engineering Attractions

In preparation for summer vacation, Florida Tech Today asked our resident theme park ride designer **RONNAL REICHARD**, who contributed to the design of the simulated Spiderman ride at Universal Studios among other attractions, for an engineering perspective on amusement park rides.

### BEST SEAT IN THE PARK

Unlike roller coasters where your seat selection depends on your thrill preference—front for sight, back for motion—every seat on a simulation ride is a treat. All riders experience the same sights, sounds and sensations, so no need to worry about your place in line.

### OPTICAL ILLUSION

Part of the fun of a simulation ride is your eyes playing tricks on you. The machine's range of motion is limited, so while it looks and feels like you are falling off a 10-story building, you are really only moving 5 feet. Keep this strategy in mind if your stomach starts to protest all the action: close your eyes.

### NEXT BIG THING

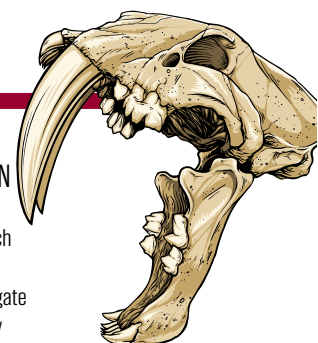
Florida Tech engineering students may lead the way to the next big amusement park attraction. The senior design project ERCV (Enhanced Roller Coaster Vehicle—see photo) combines the attributes of two theme park staples—roller coasters and simulation rides—to create a revolutionary, interactive ride experience.

## FIBER ARTS AND PRINTS

The Ruth Funk Center for Textile Arts is hosting the traveling exhibit, Studio Art Quilt Associates' newest fiber art show: Masters 2, which will be on view May 18–Aug. 24. The artworks by 37 quilt artists encompass a broad range of fiber art techniques and styles, from realistic to abstract. The subject matter varies from a study of Miles Davis intent on blowing his horn to an homage to New York City's wrought iron tree gates.

Pressing Print: Universal Limited Art Editions 2000–2010 will be on exhibition at the Foosaner Art Museum May 25–Aug. 4. The show highlights print works created by 20th century masters of American Art, such as Jasper Johns, Robert Rauschenberg and Helen Frankenthaler, and emerging artists.

For more, visit <http://textiles.fit.edu/exhibits.php> and [www.foosanerartmuseum.org](http://www.foosanerartmuseum.org).



**TESTING HULLBUG SHIP GROOMER**  
**GEOFFREY SWAIN** and **JOHN HEARIN**, Florida Tech Center for Corrosion and Biofouling Control, are testing the SeaRobotics Corp.'s Hull Bio-inspired Underwater Grooming system at Port Canaveral, through Office of Naval Research funding. The HullBUG keeps marine structure surfaces smooth, resulting in a 5 percent fuel efficiency improvement.

**UNDERSTANDING VIETNAM COAST**  
**STEVEN JACHEC**, under a \$303,000 grant from the Office of Naval Research, is collaborating with South Vietnamese and U.S. scientists in a coastal oceanography project. Their goal is to understand the impact of large river discharges during monsoon

conditions.  
**INVESTIGATING MAJOR MAMMAL EXTINCTION**  
A National Science Foundation grant of \$405,000 funds **MARK BUSH** and students on summer field research explorations to Brazil and Panama over the next three years. They will collect lake sediment cores to investigate the demise of major mammals in the last Ice Age. They hope to answer whether climate influenced the passing of mastodons, the giant ground sloth and sabre-toothed cats in the Neotropics.

## ON CAMPUS

WAYS TO GIVE:

# Retirement Plan Gifts

If you've ever considered a gift to Florida Tech from your retirement account, you should know there are options available to you that offer tax benefits. One is to name Florida Tech as the beneficiary of your IRA, 401(k) or other qualified plan. You can choose to either leave all or designate a portion of your plan balance to the university.

Retirement plans are subject to estate taxes after your death, and under current tax laws, your heirs may pay more than 30 percent in income taxes on funds bequeathed to them. If you choose Florida Tech, a tax-exempt charity, as your primary beneficiary, your gift will generate no income taxes, and the university is eligible to receive the full amount. As an alternative, you can use your retirement plan to pay an income to your heirs for life, with the remaining funds supporting the university after their death.

Also consider making a distribution from your retirement account, which could satisfy your required annual minimum distribution and simultaneously be a charitable gift to Florida Tech. Depending on current tax laws, individuals may benefit from this gift format. Martin E. Glicksman, Allen S. Henry Chair and professor in the College of Engineering, and his wife Lucinda recently made such a gift to the university. Their gift supports the mechanical and aerospace engineering department.

"My wife suggested that our gift could establish an MAE Graduate Seminar budget, allowing the department to choose a wider variety of speakers, besides local folks and students. This would enhance the breadth and quality of the seminar series," Glicksman said. "Gift giving for us is a pleasure that we are fortunate enough to enjoy."

For more information, consult with your financial advisor or contact the Office of Development at (321) 674-8962.



**BOTANICAL FEST**  
From garden gear to plants galore, the annual Botanical Fest gathered green thumbs and green-horns on campus to showcase our beautiful grounds and raise funds for the Botanical Garden.

## Clear Choice Second in D.C.

"Clear Choice," a Florida Tech MBA student-led team, placed second in America's National Gas Alliance Collegiate Energy Challenge in Washington, D.C. Florida Tech's team was one of only three chosen from among 16 university teams who led natural gas marketing campaigns in late 2012.

The team's campaign included a natural gas exposition on campus and research surveys to gauge public opinion of the energy source.

## NEW AERONAUTICS PH.D.

The College of Aeronautics has launched a new, 51-credit doctoral program in aviation sciences beginning fall 2013. The program's seven areas of specialization aim to produce outstanding aviation research and academic professionals. For details, contact **MICHAEL GALLO** at gallo@fit.edu or (321) 674-8375.



## FLORIDA TECH HANGS 10

Florida Tech is "great for the studious surfer," according to the Surf Channel, which named it one of the Top 10 Universities for Surfers.



## Pardon Our Progress

Construction and renovation projects continue to bolster students, faculty and staff so they can do what they do better—live, study, teach or administrate. By spring, several projects were on track to make daily life at Florida Tech go more smoothly.

In April, the department of marine and environmental systems was glad to return to a renovated Link Building, where they now enjoy two-and-a-half modernized floors. Biomedical engineering now does its work in the remaining half of the third floor.

Also, on campus, work continues on the Keuper Building, where the second floor is being readied for Chief Operating Officer **T. DWAYNE MCCAY**, and his support staff as well as the Office of Research. Marketing and Communications will be housed on the first floor, joined by Senior Vice President

for Financial Affairs **ROBERT NIEBUHR** and his organization. Move-in time is September.

Occupying River's Edge on Route 1 since March are Online Learning and Extended Studies. About a third of that acquired building was renovated for use by these two groups.

Students will have more residence hall options in the fall when the faith-based Mary, Star of the Sea (pictured below) and the renovated Panther Bay residence hall on Babcock Street open. The first will add 140 beds and the second, with a 300-bed capacity, will accommodate international aviation and other students.

"This growth is a very exciting time in the history Florida Tech," said **GREG TSARK**, vice president for facilities operations.



### "CLICK" TO RESEARCH

As a national research university, Florida Tech makes information about its research projects easy to access on the Web through the recently launched Research Portal: [www.fit.edu/research/portal](http://www.fit.edu/research/portal). Readers can peruse nearly 100 current projects in 40 categories, browsing by faculty or category filters, and new projects will be added regularly. Current research includes projects in such areas as aeronautics and aviation, health and medicine, biomedical engineering, business and management, rocket science and sustainability. The site targets prospective graduate students as well as grant-funding agencies, the interested public and media outlets. "The portal is an open door to information on our funded research," said **FRANK KINNEY**, vice president for research.



### NEW TENANT

Archo Solutions Engineering USA, of Sao Paulo, Brazil, will open its first American facility at the Florida Tech Research Park at Melbourne International Airport. The Brazilian engineering company plans to create 50 jobs by 2016 with operations focusing on the design of engineering solutions in the aeronautical, automotive and naval sectors.

### LIVE FREE OR EAT FREE

Student-run newspaper *The Crimson* hosted the second annual First Amendment celebration, "Live Free or Eat Free," on Feb. 27. After a morning panel discussion with an area journalist, attorney and professor, students were challenged to experience life without the First Amendment—a free meal in exchange for their rights, then air their grievances on the free speech wall near the Crawford green.

“The energy was great, the crowd was diverse, and the funds raised are going to help a lot of families access early intervention services.”

Colleen Middlebrooks,  
director of community relations for  
The Scott Center for Autism Treatment  
on the success of the fifth annual  
Evening of Hope, which raised  
**\$225,000.**

## Blue Joins Development

### DORCAS T. BLUE

joined the Office of Development in November as assistant vice president, foundations. She has more than a decade of experience in fundraising, including posts at the Crohn's and Colitis Foundation of America and United Cerebral Palsy of New York City. She has experience on “both sides of the grant,” having most recently been a program director with the Fairfield County Community Foundation in Connecticut. Blue was recruited by **SUSAN ST. ONGE**, senior vice president of development, who also recruited her to Yale-New Haven Hospital, where the two

worked together on a \$100 million capital campaign.

After accepting an invitation to visit campus, Blue said she knew Florida Tech was a perfect fit. “I was struck by how fond the community is of FIT, how supportive and passionate staff is, and how dedicated faculty and staff are to the students and the growth of the university,” she said. “I was most impressed with how the university officers and trustees envision even more great things ahead for FIT. Their commitment



Dorcas T. Blue

and drive are inspiring.”

As AVP, Foundations,

Blue's work consists of querying foundations and matching Florida Tech research and programs with funding opportunities.

“The feedback I've

received from current funders on the relationship with FIT has been very positive. I will continue to build on those existing relationships while pursuing new funding for the amazing work being done here.”

## Memorial Fund for Aeronautics

The Susan Stackpoole Endowed Fund for CoA Faculty, Programs and Lab Enrichment has been established in memory of **SUSAN STACKPOOLE**, Florida Tech University Online instructor and wife of **KEN STACKPOOLE**, vice president of aviation programs and dean of the College of Aeronautics. Gifts to the fund are welcomed and may be contributed online at [give.fit.edu/aeronautics](http://give.fit.edu/aeronautics).

## Behind the Scenes

**1** Family is close to the president's heart. He and Mrs. Catanese are proud parents and grandparents, and especially love spending time with 3-year-old twin grandsons, Anthony and Robert.

**2** An avid runner for 40 years, Dr. Catanese has participated in 35 marathons and uncounted half-marathons. He stays race-ready by jogging regularly, including weekend runs as long as 18 miles.

**3** In recognition of his commitment to launch Florida Tech Football, Dr. Catanese received the No. 1 jersey at the football uniform unveiling and pep rally in September 2012.

**4** The President has taken martial arts seriously throughout his life. He has belts in Tae Kwon Do, Okinawa Te, Shorin Ryu and Kung Fu, over a long career starting in high school. The highest is a black belt, and the others are brown.

**5** The drummer is the heartbeat of the band, which couldn't be more true of TWITCHY, the president's all-faculty band. The group has released two albums, a self-titled debut and the follow-up, “Hey, Mr. Professor.” With his practice bag nearby, Dr. Catanese is ever-ready to grab his drumsticks for a jam session.

**6** A prolific writer, he has published 13 books, 18 chapters in books and more than 100 articles and monographs on urban planning.

**7** A showcase of Panther pride, the president's office is den to a collection of panthers of various shapes and sizes. The big cats adorn walls, shelves, tabletops and even furniture upholstery.



The President's Office



# Paying It Forward: STEPHEN CRAIG '12

**STEPHEN CRAIG '12** considers his tenure as vice president of the American Society of Civil Engineers (ASCE) student chapter among his top college memories.

"I benefitted greatly from working so closely with other students," he says. "I learned engineering in a practical sense—more than I learned in labs and classrooms."



As an ASCE officer, Craig worked closely with professor **PAUL COSENTINO**.

"I met 'Dr. Cos' during orientation, and we talked for two or three hours," recalls Craig. "We are both from Pittsburgh and went to the same high school. His sister went to school with my aunt. There is a lot of

pride when you're from Pittsburgh!"

Part of Craig's responsibilities as ASCE vice president were to raise money for building supplies as well as travel expenses to take the team to regional and, hopefully, national competitions.

That goal materialized in 2011 when the Concrete Canoe team

qualified for the National Championships. Without formal fundraising experience, Craig tapped in to his team pride for motivation. "The least I could do was raise money for my friends so we could accomplish our goals," he says. "I really believed in my teammates and their design and work ethics."

Working closely with Cosentino and **GRETCHEN SAUERMAN**, director of corporate giving, over the course of the year, Craig helped raise \$35,000 to fund the trip to Nationals. He also assisted in attracting media coverage, which he says increased awareness and donations.

His passion for the ASCE inspired his commitment to raising money and, in the process, helped him develop new skills.

"Speaking to different people and organizations to ask for money gave me so much confidence," he says—confidence he continues to display in his current position as a construction field engineer for CB&I in Charlotte, N.C. "I can talk to just about anybody, regardless of their level, from CEOs to directors."

However, Craig hasn't forgotten his roots. He is a current donor to the ASCE student chapter.

"I have such fond memories of ASCE and FIT," he says. "Plus, a lot of my friends are still active in the organization."

Lisa M. Onorato



## STUDENT ORG SPOTLIGHT: ROCK CLIMBING CLUB

Florida may be the flattest state in the nation, but rock-climbing enthusiasts at Florida Tech don't need natural rock formations to fulfill their goal to climb.

The Rock Climbing Club, one of nearly 100 student organizations on campus, is open to anyone, from novice to expert. Members practice two nights a week at On the Edge Rock Climbing in Melbourne and compete in the Collegiate Climbing Series (CCS). This season, they traveled to Tampa and CCS Nationals in Orlando.

"We placed highly and our newest members placed higher than expected," says **PHIL MANOUGIAN**, aviation meteorology with flight major and team treasurer. "The competitions last three hours and require the top five highest rated routes for each person, which are added up for the final score."

Not only is climbing a great workout, a stress reliever and a way to meet new friends, it inspires a new way to look at the world, says Manougian.

"After a few times climbing, you'll forever look at buildings, tall structures and fireplaces thinking, 'I can climb that,'" he quips.

Find the Rock Climbing Club on Facebook at [www.facebook.com/FITRockClimbing](http://www.facebook.com/FITRockClimbing)

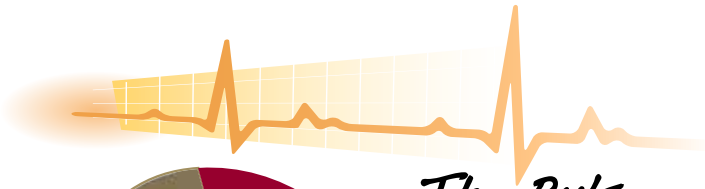


## SUMMER CAMP A-Z

From art to zooplankton, Florida Tech has a summer camp for that. Offerings include athletics, aviation and aquaculture; creative writing, computer science and entrepreneurship; math, marine biology, and marine and environmental science. Learn more at <http://camps.fit.edu>.



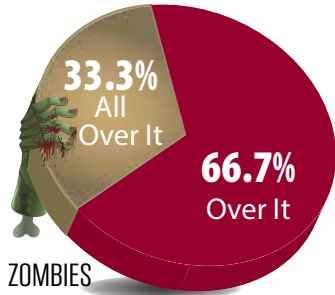
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## The Pulse of Campus

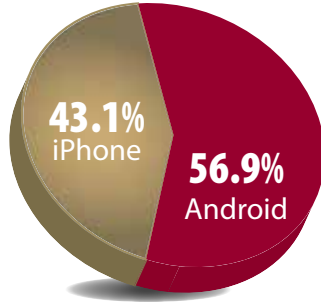
An informal campus opinion survey on:

TECHNOLOGY



ZOMBIES

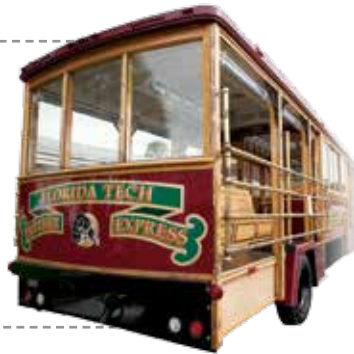
80%  
CELL PHONE ONLY,  
NO LANDLINE  
PHONE SERVICE



Inspired by NPR's popular program "This American Life," **TED PETERSEN**, assistant professor of communication, sent his students on a mission to record the interesting, funny, moving or just plain weird stories of Florida Tech students, faculty and staff. The resulting audio collection, **THIS FLORIDA TECH LIFE** podcast, is available through iTunes or at [thislife.fit.edu](http://thislife.fit.edu).

## Trolley to Downtown

The Florida Tech trolley began weekend service to historic downtown Melbourne in March. The service will be offered during the fall and spring semesters on Friday and Saturday nights between 6 p.m. and 10:30 p.m.



## Grσssik Spirit

During Greek Week 2013, Pi Kappa Alpha beat Lambda Chi Alpha in an overtime shootout for the soccer finals to take first place. **JIM HUGHES** '74, founding brother of the Zeta Sigma chapter of Pi Kappa Alpha, captured the action.

## 2013 Sports Hall of Fame Class

It was only a matter of time before four stand-out performers and one remarkable team joined an exclusive group of former student-athletes, coaches and supporters in the Florida Tech Sports Hall of Fame. That time came on Feb. 1 in front of a roomful of people eager to recognize the distinguished class of 2013.

The inductees were women's rower **VALERIE BARBER '78**, men's soccer players **EDDIE ENDERS '93** and **FIDGI HAIG '92**, men's tennis player **KHALID OUTALEB '87** and Florida Tech's **1992 BASEBALL TEAM**.

Barber traveled all the way from Alaska to attend the ceremony. Now an assistant research professor with the University of Alaska Fairbanks at the Matanuska Research Station in Palmer, Alaska, she occupied the seven seat in FIT's women's varsity eight from 1975–78. In those four years, she helped the crew win championships at the state, regional and at the Dad Vail Regatta in Philadelphia, Pa.

After graduating, she rowed in the women's eight for the U.S. National Team at the 1978 World Championships, finishing fourth overall. She was also a U.S. Olympian after earning a seat in the women's four. The crew was scheduled to compete in the 1980 Summer Olympics in Moscow, but USA boycotted the games because of the Soviet invasion of Afghanistan.

Enders joined the men's soccer program as a walk-on in 1990 and developed into an All-American before his career concluded in 1993. He guided the Panthers to their second NCAA Division II National Championship in 1991. The team would not have reached that game if not for his two late second-half goals in a 2-1 semifinal win against Franklin Pierce University.

Although 20 years have elapsed since he last hung his crimson and gray uniform, he still ranks among the top 20 NCAA Division II players in eight statistical categories. The highest being sixth all-time in career assists (60) and single-season assists (22). He is currently an advanced products engineer at Harris Corp.

Haig has not wandered far since he played four years on the men's soccer team, winning the program's first national championship in 1988. He was known for his high leaping ability and clutch play. He scored a pair of goals to help FIT advance to the national championship game and then scored in the Panthers' 3-2 title-clinching win.

He has experienced tremendous success coaching soccer at the youth and college levels. He owns the fourth highest winning percentage among high school girls soccer coaches in the country, .941. He



The newest inductees of the Florida Tech Sports Hall of Fame include Eddie Enders (far left), Fidgi Haig (second from far left), the 1992 Baseball Team and Valerie Barber (third from right). Not pictured Khalid Outaleb.

is also the winningest coach in FIT women's soccer history. He has had seven winning seasons in eight years, won the conference and regional championship and advanced to the NCAA Division II Final Four.

Outaleb, from Casablanca, Morocco, was the first men's tennis player inducted into the Sports Hall of Fame. He played from 1983–86 and also began his career as a walk-on. He became a four-year All-American, competed in the NCAA Division II Tournament and ranked among the top players in Division II.

He was a member of Morocco's Davis Cup Team for six years and was the top-ranked player in Morocco for four years. He is now an insurance adjuster consultant in Morocco.

The 1992 Baseball Team won FIT's first regional baseball championship and was among the final eight teams vying for the NCAA Division II Championship. Ranked 22nd in Division II, the Panthers rallied from a 5-1 deficit to upset the nation's second-ranked team, Armstrong Atlantic State. They also beat fifth-ranked South Carolina-Aiken two times in the regional tournament with **JOEL STEPHENS'** grand slam playing a big role in the team winning the South Atlantic Regional Championship.

FIT's pitching was tremendous as the staff compiled a 2.68 earned run average. **JEFF FAINO** pitched in a team-high 145.1 innings and struck out a team-high 112 batters. **SCOTT BUZZA** had a team-best 1.90 ERA. **MARK VENDETTI** led the Panthers at the plate with a .293 batting average. **JEFF DRISKELL** hit a team-high nine home runs.

Since the Sports Hall of Fame was established in 1986, 41 individuals and five teams have been enshrined. The next time you are in the Clemente Center, visit the Sports Hall of Fame near the entrance.

Ryan Jones



<http://bit.ly/FITHallofFame>



<http://bit.ly/FITHallofFamepics>



## PANTHER ATHLETICS



### STRIKING GOLD!

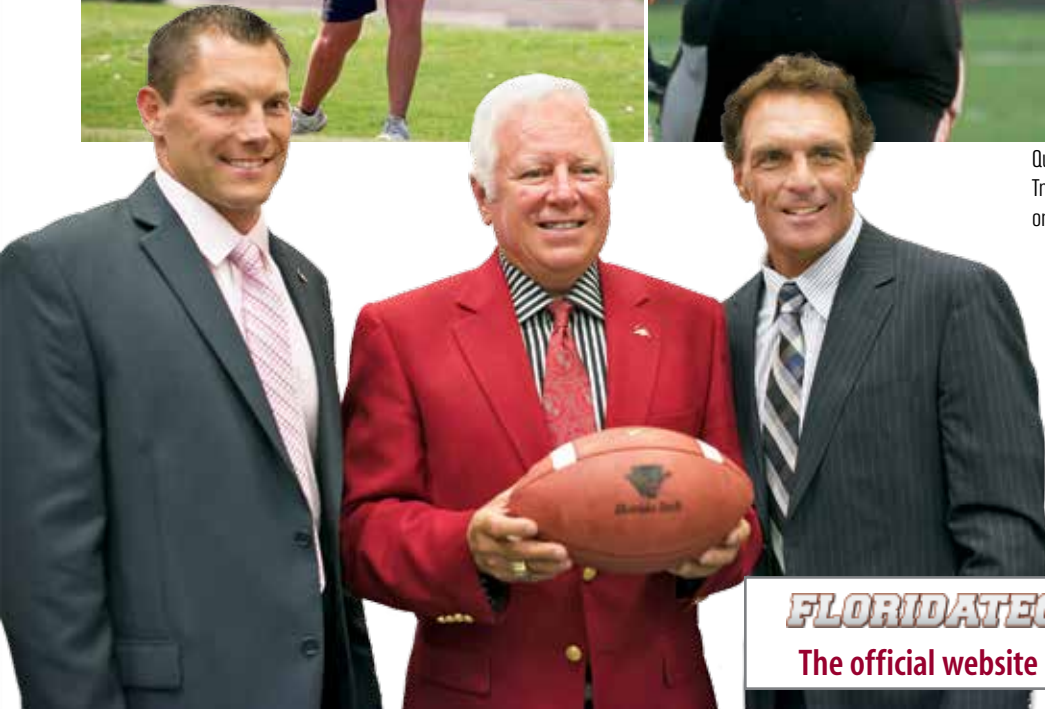
Florida Tech's men's varsity four celebrates its Aberdeen Dad Vail Regatta Championship—its third gold medal in program history and first since 1995.

The men's rowing varsity eight and varsity four won gold at the Southern Intercollegiate Rowing Association Championships on April 21.

The women's golf team, ranked ninth in NCAA Division II, won the U.S. Women's Invitational in Charlotte, N.C. on April 9. Jessica Hook, pictured below, placed first among 53 participants at the event.



Quarterback Sean Ashley hands the ball to running back Trevor Sand during the Panthers' first-ever spring game on March 23 at Palm Bay High School's Pirate Stadium.



Florida Tech President and CEO Anthony J. Catanese with head football coach Steve Englehart (left) and Doug Flutie (right) at the Inside the Huddle football banquet on April 17.

**FLORIDATECHSPORTS.COM**

The official website of Florida Tech Athletics

### FIT'S ATHLETES OF THE YEAR

**JULIUS REID**, men's basketball, and **CHRIS CACCIAPAGLIA**, men's cross country and track & field, were named Co-Male Athletes of the Year. Women's tennis' **KRISTINA HUBA**, ranked fifth in NCAA Division II in singles, was named Female Athlete of the Year.



### LACROSSE TRIBUTE

The men's lacrosse team dedicated its season to Allison Wyatt, a cousin of a current player, who lost her life in the Sandy Hook Elementary School shooting.

### TOP 10 PLAY

Men's basketball player David Usic appeared on SportsCenter's Top 10 Plays for February for his reverse two-handed dunk. View the highlight at <http://bit.ly/Usicdunk>.

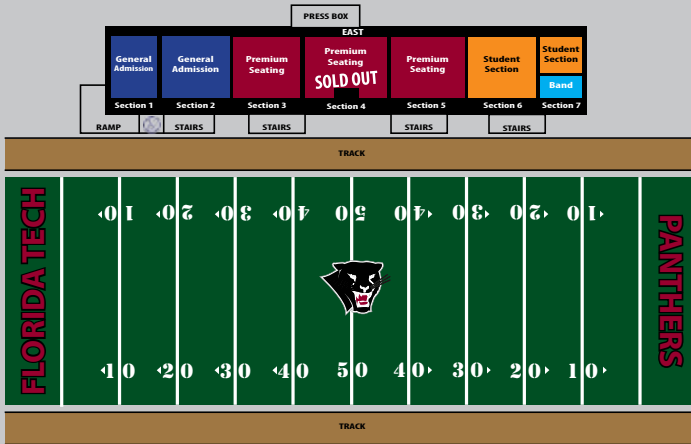
### COACH OF THE YEAR

Head men's lacrosse coach **RYAN MCA-LEAVEY** was chosen Deep South Conference Coach of the Year in only his second season of coaching at FIT.

# SEASON TICKETS AVAILABLE!



## PIRATE STADIUM AT PALM BAY HIGH SCHOOL



- \* All Premium Season Tickets are reserved seats.
- \* As of April 14, Premium Season Tickets are located between the 30 and 40-yard lines.
- \* Florida Tech Athletics will contact you about choosing your reserved seats.

Mail form with payment or bring it to  
 Florida Tech Athletics | Clemente Center  
 150 W. University Blvd., Melbourne, FL 32901  
 For more information, visit [FloridaTechSports.com](http://FloridaTechSports.com)  
 or call (321) 674-8032.

## 2013 SCHEDULE



**STETSON**  
 Sept. 7, 7 p.m.  
 Pirate Stadium



**at Newberry**  
 Sept. 14, 1 p.m.  
 Newberry, S.C.



**WEST ALABAMA\***  
 Sept. 19, 8 p.m.  
 Pirate Stadium



**at Delta State\***  
 Sept. 28, 7 p.m.  
 Cleveland, Miss.



**at Valdosta State\***  
 Oct. 5, 3 p.m.  
 Valdosta, Ga.



**at Ave Maria**  
 Oct. 12, 4 p.m.  
 Ave Maria, Fla.



**SHORTER\***  
 Oct. 19, 2 p.m.  
 Pirate Stadium



**WARNER^**  
 Oct. 26, 1 p.m.  
 Pirate Stadium



**at West Georgia\***  
 Nov. 2, 2 p.m.  
 Carrollton, Ga.



**NORTH ALABAMA\***  
 Nov. 9, 6 p.m.  
 Pirate Stadium



**WEBBER INTERNATIONAL**  
 Nov. 16, 2 p.m.  
 Pirate Stadium

Times are Eastern Standard Time.  
 All dates and times subject to change.

HOME GAMES IN CAPS \*Gulf South Conference Game ^Homecoming Game

## SEASON TICKET ORDER FORM

Ticket Type	Amount	Quantity	Total
<b>Premium Seating</b>			
<b>Adults</b>	<b>\$65</b>		
<b>Florida Tech Employees</b>	<b>\$40</b>		
<b>Seniors (65 and Older)</b>	<b>\$40</b>		
<b>Children (Ages 5-16)</b>	<b>\$40</b>		
		<b>Total Cost</b>	

Tickets can also be purchased online at:

**FLORIDATECHSPORTS.COM**

Parking at Palm Bay High School for football games is \$5. Parking is free on the Florida Tech campus, with transportation available to/from campus and Pirate Stadium.

### Contact Information

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ ZIP \_\_\_\_\_

Phone \_\_\_\_\_

Email \_\_\_\_\_

Total Amount Enclosed \_\_\_\_\_

Payment Method (Check one):

Check (Make Payable to Florida Tech Athletics)

Cash (PLEASE DO NOT MAIL CASH)

Credit Card:  MasterCard  Visa  AmEx  Discover

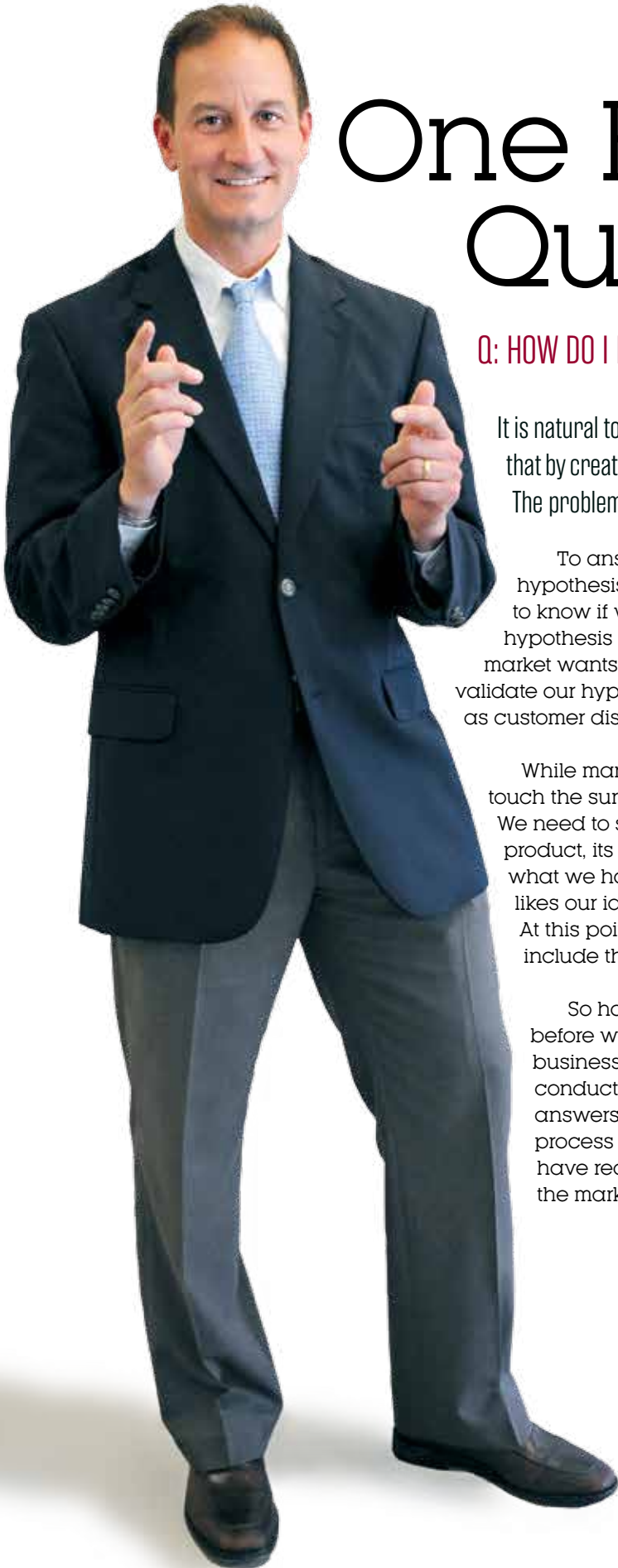
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Signature \_\_\_\_\_

Card Number \_\_\_\_\_

Expiration Date \_\_\_\_\_ Security Code \_\_\_\_\_





# One Big Question

with Scott Benjamin

## Q: HOW DO I KNOW IF I HAVE A GREAT BUSINESS IDEA?

It is natural to see a problem in our everyday lives and think, “I could solve that by creating this product and the market would be willing to pay for it.” The problem is—the only thing we have at this point is a hypothesis.

To answer this question, we need to go beyond the hypothesis and draw upon the scientific method. In order to know if we have a great business idea, we must test our hypothesis and analyze our data. The only way to test if the market wants and needs our product is to “ask” the market and validate our hypothesis. This process, coined by Steve Blank, is known as customer discovery and validation.

While market research surveys are convenient, they barely touch the surface of the data needed to verify our hypothesis. We need to speak directly to potential purchasers to verify if our product, its proposed features and the price point are indeed what we had originally hypothesized. We may learn the market likes our idea, but only if it includes certain features or functions. At this point, our hypothesis becomes agile and changes to include the additional information.

So how many customer interviews do we need to conduct before we can verify our hypothesis that we have a great business idea? It may take 25 or 50, but we continue to conduct interviews until the point when we can predict the answers to an interview before we conduct it. While this process does not guarantee our idea will be successful, we have reduced the odds of failing by inexpensively validating the market.

Scott Benjamin, MBA, Ph.D., is a 20-year veteran of serial entrepreneurship. Prior to receiving his Ph.D. in entrepreneurship and strategic management, Benjamin was the founder and CEO of Health and Radiological Services, a medical education and consulting practice, and Signature Properties, a real estate development firm. He has also owned several restaurants and is an active angel investor. He is assistant professor of strategic management and entrepreneurship in the Nathan M. Bisk College of Business and the director for the Center for Entrepreneurship and New Business.

Cathy Martin '98  
FLYING INTO THE

# Eye of the Storm

IS JUST ANOTHER DAY AT THE OFFICE.

As millions of residents along the Eastern seaboard anxiously await word as to whether or not an approaching hurricane will make landfall, a handful of determined scientists are flying into the fray to make that call. Lieutenant Commander Cathy Martin '98 is one of those intrepid investigators.

Martin is an officer in the NOAA Corps, one of the seven uniformed services of the United States. Her summer workday at the NOAA Aircraft Operations Center at MacDill Air Force Base in Tampa may involve flying in and out of an approaching hurricane—zigzagging from north to south, east to west, plowing through rain bands and piercing the tumultuous eyewall, an intense mission of up to nine hours in the air.

Martin and her team of fellow pilots, meteorologists, navigators and scientists collect data for forecast models in an effort to predict the intensity of a storm and track the most likely areas for potential landfall. That data is then transmitted to the National Hurricane Center in Miami, where it is interpreted and reported for preparation and evacuation efforts.

“We certainly can’t prevent the destruction from happening,” she says. “But at least we can warn people to get out of the way before a storm actually hits.”

In season, a hurricane hunter’s job is a demanding, constantly on-call commitment. With a minimum of 24 hour’s notice, the team must be ready to take to the skies, manning multiple reconnaissance flights in rotating shifts. Depending on location, intensity and proximity to land, that rotation may include two flights a day for as many as six days—flights that can be as challenging as they are demanding.

“Many pilots are trained to stay away from bad weather,” says Martin. “You see this stuff on the radar and you’re used to turning 180 degrees away from it. And, while the typical commercial flight goes from point A to point B via the most direct route, our flight tracks are anything but straight. We’re constantly changing based on storm location.”

While the majority of the flight is no worse than the turbulence a passenger might encounter on a typical commercial flight, intense winds and rain bands produce extreme flying conditions—pelting rain, rattling equipment and roller-coaster dips.

Yet as much as Martin enjoys the thrill of the flight, it’s not as though she sits back longing for hurricane season.

“It would be great if we could have a season where all the storms just stayed out in the Atlantic or the Caribbean and didn’t touch land,” she muses. “I’m a pilot, and I like to fly, but the most rewarding part of my job is the public safety aspect. I can’t tell the hurricane to turn, but I can help tell people where it’s headed and keep them out of harm’s way.”



“Just because the first pass through the storm wasn’t bad doesn’t mean the next pass will be the same—it could be worse.”

Cathy Martin '98





Lieutenant Commander Cathy Martin has flown in 20-plus storms. Her first flight was through Hurricane Bill in 2009. Other memorable storms were Hurricane Irene in 2011 and Hurricane Sandy in 2012.



Experience the eye of the storm.  
Visit NOAA's Virtual Hunt at  
[http://flightscience.noaa.gov/virtual\\_hunt.html](http://flightscience.noaa.gov/virtual_hunt.html)

## Meet Cathy Martin

Florida Tech Degree(s): '98 B.S. Aviation Management/Flight Technology, '98 B.S. Aviation Meteorology

Current Town: Tampa, Fla.

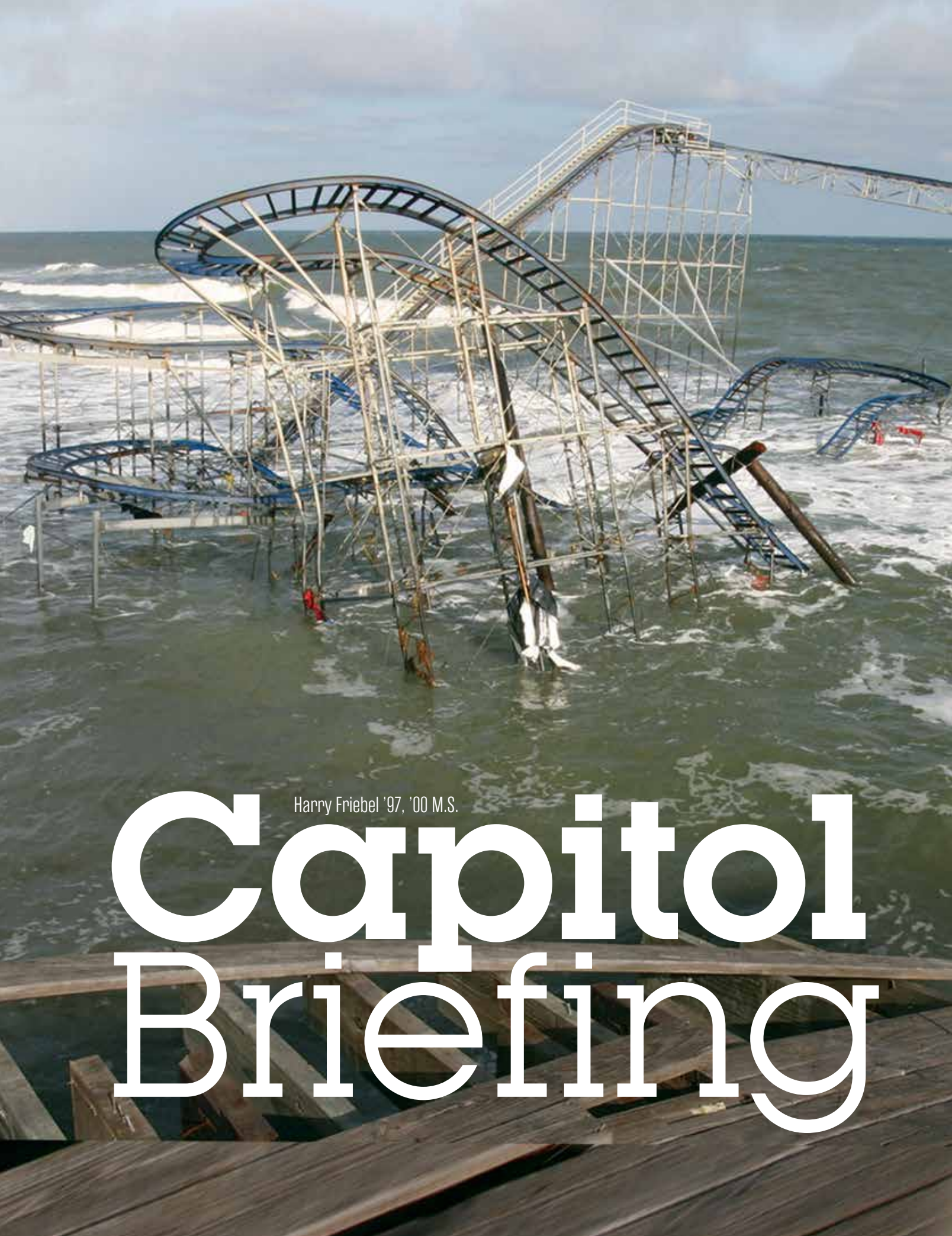
Hobbies: Hiking (successfully reached the summit of Kilimanjaro in Tanzania, Africa, on Aug. 9, 2012), camping, exploring new places

Family: Parents Anne and Donald Martin of Palm Coast, Fla.; brother Eric Martin '94, '96 M.S., his wife Carrie, son Neven, 7, and daughter Avery, 3, of Indialantic; sister Kelly Martin, her husband Mike Gold, daughters Willow, 4, and Eliza, 2, of Unity, Maine; and sister Erin Martin of Durham, N.H.

Favorite Florida Tech Memory: My first cross-country flight as a student pilot to Key West, Fla.

Best Thing About Being a Florida Tech Alumna: The friends I met and the FAA ratings I received that helped me get the job I have today.

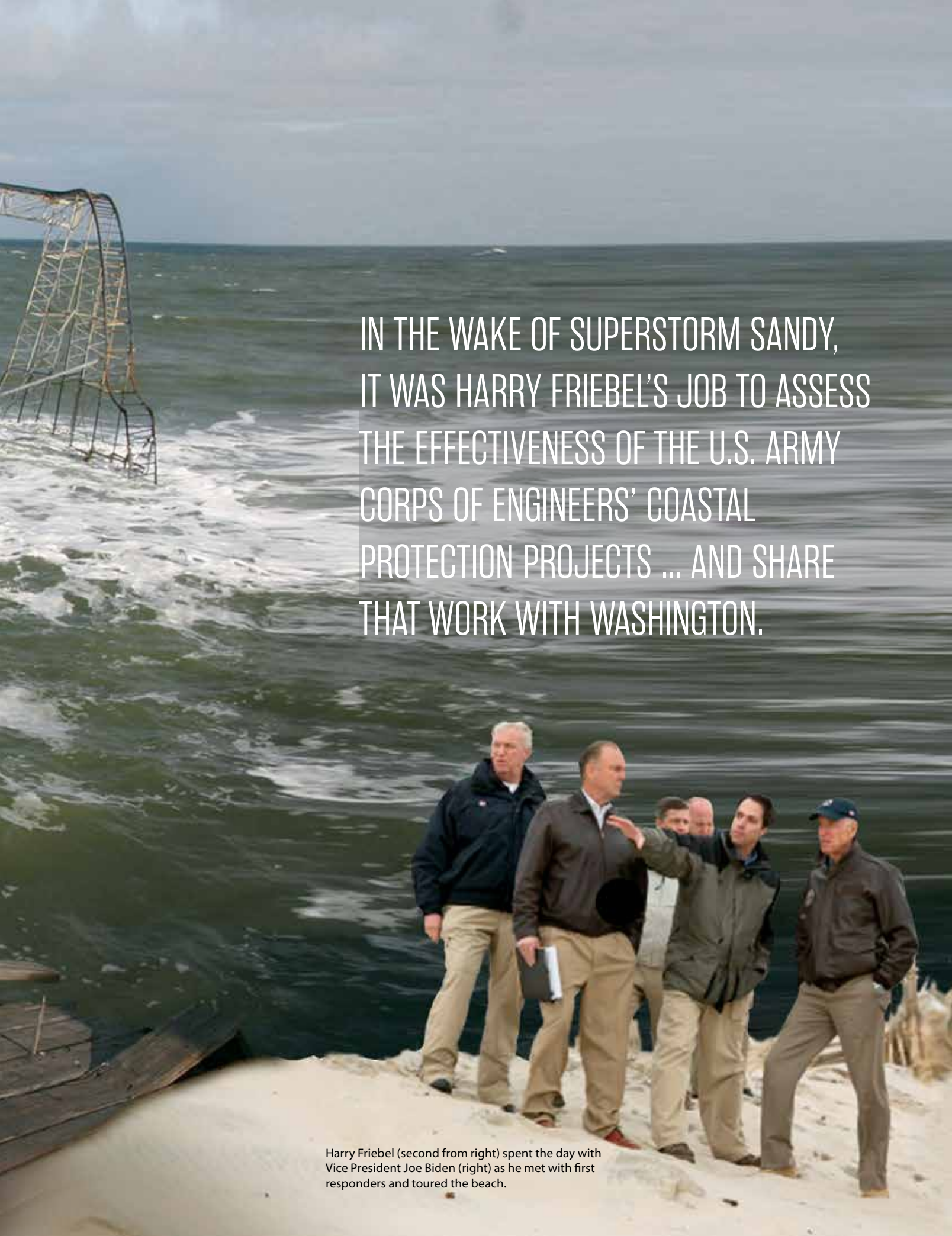




Harry Friebe! '97, '00 M.S.

# Capitol Briefing



A group of men are standing on a sandy beach, looking towards the ocean. In the background, a large, rusted metal structure, possibly a pier or breakwater, is partially submerged in the water. The sky is overcast and grey. The text is overlaid on the right side of the image.

IN THE WAKE OF SUPERSTORM SANDY,  
IT WAS HARRY FRIEBEL'S JOB TO ASSESS  
THE EFFECTIVENESS OF THE U.S. ARMY  
CORPS OF ENGINEERS' COASTAL  
PROTECTION PROJECTS ... AND SHARE  
THAT WORK WITH WASHINGTON.

Harry Friebel (second from right) spent the day with Vice President Joe Biden (right) as he met with first responders and toured the beach.

Vice President Joe Biden wanted to see the destruction for himself. Last November, he stood on what remained of the boardwalk in Seaside Heights, a New Jersey resort town that had previously been best-known as the summertime home of MTV reality stars Snooki and The Situation.

That image changed in the days following Hurricane Sandy, the superstorm that touched down on Oct. 29, claiming at least 159 lives and causing upwards of \$50 billion in damage across the Northeast coastline. Dressed in a leather bomber jacket and khakis with a Seaside Heights Police baseball cap, Biden stood a few feet from a tangle of roller coaster tracks that ended up in the ocean—a sight that became one of the iconic images of Sandy’s aftermath. Biden, the former Delaware governor who spent years vacationing at the Jersey Shore, assured the storm’s survivors that he understood what they needed to rebuild their lives. “You’ve got a homeboy,” he said of himself, “who gets it.”

One of the people flanking Biden that day who helped him

understand Sandy’s impact was a fellow Garden State homeboy—**HARRY FRIEBEL** ’97, ’00 M.S., a coastal engineer with the U.S. Army Corps of Engineers, who spent the day with Biden as he met with first responders and toured the beach.

“He asked very intuitive questions,” Friebel says from his office in the historic Wanamaker building, overlooking downtown Philadelphia. “You could tell he’s not one of those people thinking about what he’s going to do two hours from now. He was in the moment and listening. It wasn’t a publicity stunt.”

Friebel’s path to the Corps and his day with the vice president began in the ocean. The 39-year-old South Jersey native started surfing in grade school, never thinking his love of the sport would lead to a career. A lecture from a coastal engineer

during his freshman year at Florida Tech was a revelation. “I thought, you could get paid for this?” he says with a laugh. “Teachers say that surfers have a lot of intuition to grasp the subject. You’re out in the water, you know how the currents move, where the waves break. So when you’re in the classroom, it’s easy to visualize. It was a match made in heaven.”

Simply put, Friebel’s job with the Corps is “dune builder,” and his regional office oversees federally funded beachfront preservation projects in the lower half of New Jersey and all of Delaware. None of them had faced a true test from Mother Nature until this storm, and fortunately, the four islands Friebel oversees were spared much of Sandy’s wrath. A tour of the coastline in a Blackhawk helicopter in the



Scenes from Friebel’s post-Sandy helicopter assessment of the coastline:

(Left) The southern portion of Long Beach Island, N.J. Superstorm Sandy washed the foundation sand out from under these homes. Though the homes were not completely destroyed, they were temporarily condemned since their utilities became exposed. The Corps has a beachfill project scheduled for this area. (Right) Ventnor, N.J. had a federal project in place during Superstorm Sandy. The area experienced minimal damage to oceanfront homes due to minor flooding, but no erosion or wave damage.





An example of the Army Corps of Engineers beachfront preservation projects: In 2005, the Corps began a federal project along the coastline from Rehoboth Beach to Dewey Beach, Del., replenishing 1,690,000 cubic yards of sand. Designed to mitigate flood and coastal storm damage, the project spans 13,500 feet of coastline.

days afterward proved the Corps' dunes "passed with flying colors," he says. "The eye-opening thing for me was the difference in the damage where we had a project and five blocks away where there was none. It was night and day."

A few weeks later, as Friebel and his teams were busy assessing beach erosion and drawing up plans for repairs, he received a call at home on a Saturday morning—Biden was visiting New Jersey the next day and the Corps wanted Friebel to help brief him. The vice president's entourage arrived by helicopter and met with state and federal officials for a closed-door session at a Seaside Heights fire hall, where Biden threw the engineer into the conversation, literally. "I was actually hanging in the back and he was talking to the higher-ups with FEMA," Friebel

recalls. "Somebody said 'There's a guy from the Corps here.' And he reached behind, grabbed me by the shoulder and literally pushed me to the table."

During that meeting and a walk along the beach, Biden asked Friebel practical questions about the dynamics of beach erosion and the dunes built by the Corps (Seaside Heights is one of a number of New Jersey shore towns that isn't working with the Corps, either due to issues of funding, permission from land owners for construction, or both). When Biden asked if Seaside Heights would have suffered such catastrophic losses if the Corps had built dunes or a seawall there, Friebel told him bluntly, no. "We weren't trying to sell anything to him," Friebel says. "If he had a question, we wanted to answer it." The engineer's words seemed to

## Meet Harry Friebel

Florida Tech Degree(s): Ocean Engineering '97 B.S., '00 M.S.

Current Town: Berlin, N.J.

Hobbies: Helping others pass the Civil Professional Engineering (PE) exam via teaching exam prep courses and publishing related books ([www.goldenratiopublishing.com](http://www.goldenratiopublishing.com)), modeling/trading the stock market via quantitative analysis and enjoying the outdoors with my family

Family: Wife April, son Nathan and daughter Juliet

Favorite Florida Tech Memory: Freshman year, I was surfing and reluctantly dragged myself out of the water to attend class (Introduction to Ocean Engineering seminar), but when I got there, I was pleasantly surprised to find it cancelled. I returned to the beach to an even bigger surprise—my professors were out surfing too. I guess you could call it a day of research.

Best Thing About Being a Florida Tech Alumnus: The respect that comes with the degree. Cannot tell you how many times I have listed my credentials and people have commented what a great college FIT is regarding marine studies—the faculty, location to the coast for field work, and associated curriculum sets FIT above and apart.

make an impact. When Biden spoke to the press that day, he called for more funding for the Corps.

By 4 p.m. that afternoon, Biden had flown off to the New York area for more damage assessment and Friebel was on his way back home, ready to attack the less-glamorous task of repairing the eroded dunes from Long Beach Island to Avalon and Atlantic City—many of the same beaches he'd surfed as a kid. For Friebel, the experience confirmed that his work with the Corps has the potential to save both property and lives along the coastline.

With hurricane season starting up again in June, Friebel hopes that his new pal in the White House continues to carry that message. "I hope we won't have to go through something like this again," he says. "But I'm sure we will."

Richard Rys





Marie McBride

# Resurrecting Apollo

A BUDDING  
PLANETARY  
SCIENTIST'S  
UNDERGRADUATE  
INTERNSHIP TURNS  
INTO A DETECTIVE  
STORY FOR LOST  
LUNAR DATA





When Marie McBride arrived at NASA's Goddard Space Flight Center in Maryland for an internship the summer of 2011, she spent little time mulling her options for a research project.

Having dreamed of visiting the moon since she was a child, McBride seized upon the opportunity to revisit the lunar dust experiments set up by teams of Apollo astronauts more than 40 years ago. Her plan was to look at the temperature and energy output read-

ings transmitted by solar cells left behind on the moon to learn about how they were impacted over the years by radiation and dust on the lunar surface.

ings transmitted by solar cells left behind on the moon to learn about how they were impacted over the years by radiation and dust on the lunar surface.

The Apollo experiments, however, would not yield their secrets so easily. The program, which landed six crews on the moon between 1969 and 1972, was canceled so abruptly that many of the scientists never had the time nor funding to finish their work. Much of the data collected by experiments left behind on the lunar surface were physically lost. Some results, like the dust experiments set up by the Apollo 14 and 15 crews, were buried in reams of computer printouts that were later imaged onto microfilm and microfiche.

The solar cells were designed to transmit status reports on temperature and energy readings every 54 seconds. For the Apollo 14 sensors, the transmissions went on for seven years. The Apollo 15 instruments lasted about five.

"We're talking about a lot of data," said McBride. "These are the only instruments from which we can truly learn about the long-term lunar environment."

Buried in the data was information about how dust impacts a solar cell's energy output, how much radiation hits the lunar surface during a solar storm and other evidence of what happens on the surface of the moon. Unlocking the

potential goldmine, however, proved to be a formidable task. Scientists at Goddard, which houses NASA's data archives, tried using optical character recognition and other software programs to digitize and analyze the information—to

no avail. For the Apollo 14 and 15 data, they did have one more piece of evidence—a copy of the raw telemetry streams transmitted to Earth from the experiments. Mixed in with housekeeping data on the probes' health and power consumption were temperature and energy readings from the solar cells themselves.

The telemetry was in binary code—just strings of ones and zeros—that needed to be translated into numbers ranging from zero to 255. The telemetry stream had time stamps, as did the microfilms, but they didn't match. McBride, an aspiring planetary scientist, became the project's lead detective.

"Marie was very interested in this dust detector so I set her loose on it. She went through the microfilm and went through the telemetry and kind of figured everything out," said Dave Williams, McBride's project advisor and the scientist in charge of lunar and planetary data at NASA's National Space Science Data Center at Goddard.

"The numbers don't mean anything by themselves, but once lined up she could see what actual value there was, say, for a temperature. So 153 on the telemetry, for example, matched up with 63.74 degrees Celsius on the microfilm," Williams said.

McBride, who stuck with the project after her internship ended, created tables that translated the relevant numbers in the telemetry into corresponding temperature and energy readings from the solar cells.

Eighteen months of work paid off in December 2012, when McBride got her first picture of what the data was saying about conditions on the moon, and she is now beginning work on two papers on her results. The first explains the data retrieval process for the Apollo 14 and 15 dust detector experiments in hopes other researchers will be able to make use of the results.

"You just never know what's going to jump out at you," McBride said. "Every time we look at this data we see something else. Who really knows how much more can be done with this?"

The second paper, the result of McBride's original interest, deals with the dust environment on the moon. Preliminary analysis shows that at least with the Apollo 14 detectors, dust was not a factor in their operation, perhaps a result of where they were placed and how they were positioned—data that would be useful to engineers and scientists laying out future missions.

"I've wanted to walk on the moon for a very, very long time. Just getting to work with this instrument that is on the surface of the moon and knowing astronauts walked there to set it up and the data has been coming back from there is amazing. This data can be used in the process of planning for future lunar missions and hopefully a mission that I will, one day, be on," McBride said.

Irene Klotz

## Meet Marie McBride

Major: Solar, Earth and Planetary Science

Expected graduation: December 2013

Hometown: Hermitage, Pa.

Hobbies: Bike Riding, traveling, spending time with family and friends

Family: Mother and stepfather: Patty and Ken Gawne, Grandfather: Stephen Barich, Sister and Brother: Kristen and Brett McBride

Plans after graduation: Work for spring 2014 at NASA, then start earning my Ph.D. in planetary geology in fall 2014

Juan Pablo Aljure '09 M.S.

# LEEDing the Way in Colombia



"This is the management phase where we become a living textbook."





“OUR SCHOOL IS A LIVING TEXTBOOK FOR OUR CURRICULUM,” SAID JUAN PABLO ALJURE '09 M.S., HEADMASTER OF THE ROCHESTER SCHOOL NEAR BOGOTÁ, COLOMBIA, OF THE CAMPUS.

Opened last October, the new facility will be certified in August 2013 as a Green School by the United States Green Building Council. It will be the first school in Colombia to achieve the LEED (Leadership in Energy and Education Development) GOLD level.



Aljure, who has been a member of the faculty of the Rochester School since 1987, conceived the K-12 school as a model for “futuristic learning with a climate conducive to cooperation and belonging.” He refined his vision at Florida Tech in 2008–2009, when he earned his master’s degree in environmental resource management.

“Florida Tech was one of the best evaluated universities for environmental engineering and science. I preferred it to other options because of its location, versatile program, beautiful and practical geography for environmental studies and the region’s technological corridor. The weather was also nice. It was a great opportunity for my two children to develop their English skills, and it was convenient to make trips to Colombia,” he said.

Aljure took his ideas back to Colombia, became project director of the facility and led construction, which began June 2011. “We could not have implemented many of the new school’s key sustainable features if I had not done the master’s at FIT,” he said.

The 166,841-square-foot school takes up about a quarter of the property’s acreage, where courtyards, green space and walkways abound. On the grounds is an audeteria (auditorium/cafeteria) featuring 12 arts classrooms, chapel, cafeteria that seats 384, snack bar and a professional theater for 600 spectators.

Among its energy efficiencies, solar collectors and electric pumps heat two swimming pools and dressing rooms, making possible year-round swimming classes. The 20-KW-powered solar photovoltaic arrays atop the middle and high

schools provide an energy source that meets 12 percent of the electricity demands of the campus, including automatically controlled LED lighting. The school also incorporates natural diffused lighting.

Tertiary treated wastewater is recycled for toilets and irrigation, removing 35 percent of the former drain on potable water.

The school’s many sustainable features are subjects of study for teachers and students. They “are coming to understand that renewable practices can be implemented and are here to stay,” said Aljure.

He is perhaps most proud of the pedagogical classroom hubs. These extended learning areas surrounded by four or five classrooms, offer a common space where teachers of the same grade level or discipline can team-teach. Flexible, they also create spaces for students and teachers to come together in interest groups and facilitate novel teaching strategies.

“Our students will become adults and citizens of the world with a mental model that is needed now and in the future. We hope that other schools in Colombia can study us to implement their own sustainable facilities and the government of Colombia can look at our project to use what we have done here as a basis for future policy decisions.”

Aljure’s next step is to manage his project. His immediate goal is to pay back the school’s debt.

“All these systems must work as designed to create the real savings to pay off the debt and to provide real data for the curriculum for others to study. This is the management phase where we become a living textbook.”

Karen Rhine

# ALUMNI NEWS

## FROM THE FTAA PRESIDENT ALEXIS LOO '75

As another academic year concludes, the Florida Tech Alumni Association is pleased to welcome seven new board members and recognize the achievements of several others. Margaret Berger, John Chappell, Eddie Enders, Bernie Fuchs, Rebecca Lambert, Chad Shoultz and Brian Stahl joined the board in March. They bring a wealth of enthusiasm from across the nation, representing a variety of majors and covering a number of class years.

I would also like to recognize John Valente for completing a very successful two years as president of the FTAA. He will continue as the immediate past president and has dedicated continuous support to the Gleason Seat Campaign. John completed his second nine years on the board, along with Mike Gordon. And Alan Prestwood, a past president of the FTAA who has completed 19 years on the board, received the first Dr. Harvey L. Riley Bridge Builder Award for his work with the Brevard Neighborhood Development Coalition.

Nominations have begun for the Jerome P. Keuper Distinguished Alumni Award and the G.O.L.D. (Graduate of the Last Decade) Award. Criteria for each award can be found at [development.fit.edu/Alumni\\_Awards\\_2012.pdf](http://development.fit.edu/Alumni_Awards_2012.pdf). Nominations must be received no later than July 1, 2013. The awards will be presented during the Homecoming Gala on Oct. 26, 2013. Speaking of Homecoming, the 2012 event was a great success, and this year's celebration promises to be even bigger and better—



marked by our homecoming football competitive debut! Our biggest goal is to bring you back to campus to see firsthand the growth and success of your alma mater and to get a real perspective of the value of your FIT degree. And did you know your signature can help share that value with others? A qualified prospective student can receive up to \$1,000 a year for four years, and your child can receive up to \$2,500 a year for four years when you complete the Alumni Endorsement or Legacy Grant forms.

The FTAA board of directors wants you as a valued member of the Alumni Association! There are no dues; just provide your contact data, so we can keep in touch with you. Share what's happening with you and your family by submitting your Alumni News Notes to [alumaffr@fit.edu](mailto:alumaffr@fit.edu).

Finally, I'd like to announce the Delta Delta Tau (DDT) Fraternal Society, Class of '67 through '73, 40th Reunion. All brothers, little sisters, DDT friends and associates are invited. Contact [www.ddt-fit.org](http://www.ddt-fit.org) or [alexisloo@msn.com](mailto:alexisloo@msn.com) to join the reunion website.

Building relationships to last a lifetime!

Alexis

## YOUR ALUMNI ASSOCIATION OFFICERS

Alexis Loo '75 | President | Pasadena, MD | [alexisloo@msn.com](mailto:alexisloo@msn.com)  
Allyn Saunders '76, '80, '83 | Vice President | West Melbourne, FL | [allynpar5@aol.com](mailto:allynpar5@aol.com)  
Jim Herdt '92 | Treasurer | Chelsea, AL | [jimherdt@msn.com](mailto:jimherdt@msn.com)  
Penny Vassar '98 | Secretary | Anderson, SC | [pvassar@fit.edu](mailto:pvassar@fit.edu)  
Dean Smehil '74 | Member-at-Large | Silver Spring, MD | [dsmehil@aol.com](mailto:dsmehil@aol.com)  
Palma Young '76 | Member-at-Large | Villa Rica, GA | [psyoung@comcast.net](mailto:psyoung@comcast.net)

Anita Carnegie in front of the Naval Warfare Center Training Systems Division (NAWCTSD), Orlando, Fla., in 2010



## REMINISCING

### My Time: A Journey through FIT

Florida Institute of Technology wasn't even in my equation when I watched Alan Shepard in Freedom 7 rocket himself into the history book on that glorious May day in 1961. Space exploration became my goal and, eight years later, it was my time to prove myself as I took my first step in reaching my dream of going to space.

The year was 1969, and the country was in the middle of a very unpopular war, the flower children, hippies and women were looking for identity, all spreading their anti-war rhetoric and running loose around the country. But, in the middle of all this chaos, there I stood—all 5' 1" of me—on the steps of FIT thinking, "OMG! I'm on the brink of something big, a journey of my own discovery." The school was young and only had three years under its belt with the name FIT. I was one of three women attending the engineering department in a class of about 3,000.

## PASS THE PARMESAN



It was all about brotherhood and giving a popular product new life when **GEORGE POIDOMANI** '73 and three Delta Delta Tau (DDT) fraternity brothers got together in 2010 to do business as Sal's Spaghetti House Pasta Sauce Company. The sauce was a staple of Poidomani's dad's now-gone Allentown, Pa., restaurant.





"I was one out of a total of three women attending the engineering department in a class of about 3,000 back then."

I lived in the top half of Brownlie Hall with seven other females. It was not co-ed at that time, which made for some late-night rendezvous. The rooms were small, and we all used the reverse-cycle air-conditioners as hair dryers.

During my time eating the "meal plan," which cost almost as much as tuition, there was a boycott of the cafeteria, and I became a spokesman on the "Meal Committee." The meal plan food was fair but didn't offer variety. We ended up having the administration agree to place huge jars of peanut butter, jelly and white bread along the wall of the cafeteria.

There were only two engineering buildings, a small pool and a gym, which was reserved for use by the basketball team.

On test day, you would find a strange odor and smoke coming from the botanical garden ... after all, it was still the 60s.

We had a mascot—"The Bork" that left paw prints all over campus ... we never could track it down.

In closing: I guess the old saying is true, "if you shoot for the moon and miss, you'll end up in the stars." I didn't obtain my dreams of space nor did I finish my space technology degree. But my time at FIT gave me much more. It showed me that working for a goal will never die if you believe in yourself and never give up. I finally received my engineering degree from UCF along with a prelaw degree before ending up back at FIT to complete a master's in government acquisition and contracts management.

I now work for the military, supporting those who give so much to make our country strong. My thanks to all the veterans, past and present, and thank you FIT for showing me that there is a light at the end of the tunnel.

Anita Carnegie '01



## SAN DIEGO CHAPTER NEWS

The San Diego Alumni Chapter held its fourth get-together, a lunch gathering at Seaport Village in downtown San Diego, in March. Clockwise from left: John and Nicole Shipley, Whitney Ghoram, Matt Anderson, Miguel Adao, Michael O'Hara, and Chad, Claire and Hudson Marsden.

The principals, all life members of the Florida Tech Alumni Association, **RAY WILKINS '74**, **DEAN SMEHIL '74** and **RUSS BALLAGH '74**, are joined by about 30 investors, all with some relation to Florida Tech. "I learned my marketing lessons at FIT," said Poidomani, who runs the business from his childhood home in Roseto, Pa. He's placed the sauce in a variety of Pennsylvania grocery stores and Bed Bath & Beyond in Easton and Whitehall, as well as Auddino's Italian Bakery in Cape Canaveral, Fla.

Although the senior Poidomani's eatery is no more, another restaurant opened on the site and declares every Tuesday Sal's Spaghetti House night. George taught the owners how to make the sauce and the popular dining tradition lives on. The media has noted the rebirth of the sauce. "Sal's sauce has gotten more publicity since the restaurant closed," said the DDT entrepreneur. Read all about it at [www.salsspaghettihouse.com](http://www.salsspaghettihouse.com).



# Washington, D.C.



Sarah Dunsford '00, Joann Soliman, Mindy Robinson '02, Amber Wilson '00, Dr. Catanese



Todd West '95 and Stacy Bach



Susie Allen Sierpinski, Paul Sierpinski '07 M.S., Hudson DeLee '12 M.S., Justin Oliveria '06



Thariq Kara '07, Todd West '95, and Dylan Lewis '92, Bino Campanini



Shirlene Hamilton and Joseph Pindell '10 M.S.

### CITY SPOTLIGHT: D.C. Recommendations by Todd West '95

#### Best Restaurant in Town:

An old stand-by, but one of our favorites, is Jaleo—Spanish tapas, great for sharing with friends and trying many different dishes.

One of the toughest reservations in town (the restaurant only seats six) but worth the effort for a special occasion is minibar. We love the avant-garde 30-course tasting menu.

#### Must-See Attractions

There are too many to choose from! On my short

list, Lincoln Memorial, Air and Space Museum, The National Portrait Gallery, MLK Memorial, FDR Memorial and, my favorite, the Marine Corps/Iwo Jima Memorial.

The best thing about D.C. is that it is an international city. With embassies from all over the world, there are many opportunities to experience different cultures and cuisines. Also, every four years, we get an extra paid holiday for the Inauguration, so that's fun, too.

Terry Ann Hayes, Chris Fernando '02, Kirk Harris '05, Don Scata Jr. '03





# Vero Beach

Hon. Peter O'Bryan, Gretchen Sauerman, Patrick Pitts



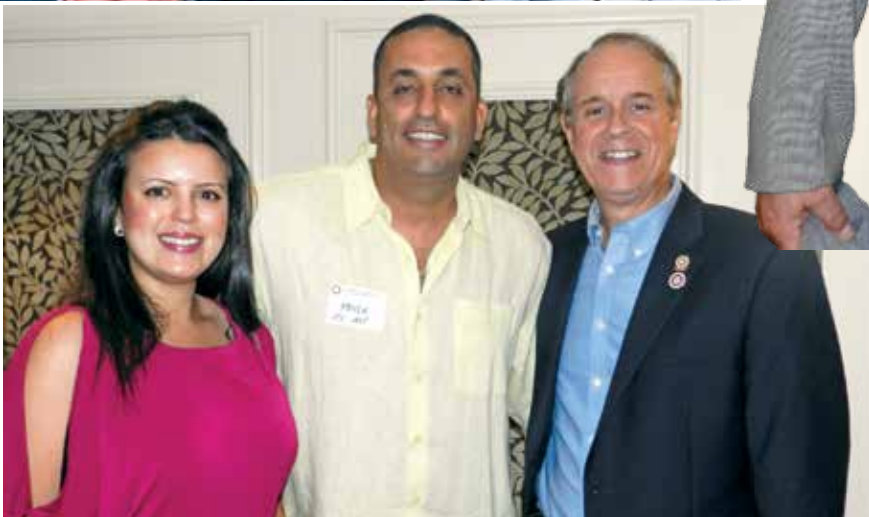
Taranna Rahman '03, '05 M.S.,  
Nancy Pham, Bino Campanini



Jesse Davis '05 M.S.,  
Adeljean Ho '10 M.S.,  
Dennis Miller '02



John Vacchiano '97



Guest, Moula Elharti '95,  
Allyn Saunders '76

# Orlando



Duane De Freese '81 M.S.,  
'88 Ph.D., David Murphy  
'91, Trish Murphy '93

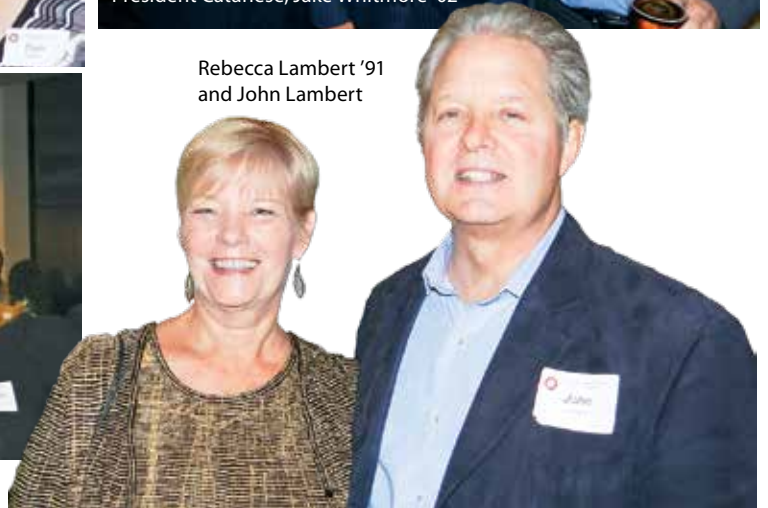


Trustee Steve Freeman '90,  
President Catanese, Jake Whitmore '02



Sean Quinn '93, Leslie Hielema '84, Melissa Quinn

Rebecca Lambert '91  
and John Lambert



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# United Arab Emirates



Ibrahim Al Balooshi '01 was recognized for his contributions to the UAE chapter.



President Catanese visits with potential students

# Thailand

Fred Ham, dean of the College of Engineering, held receptions for alumni in Bangkok, Thailand, and Seoul, Korea.



# Korea



share your news!  
 Submit your Alumni News Notes to [alumaffr@fit.edu](mailto:alumaffr@fit.edu)

1970s



**CHRIS CAMPBELL '72** remarried recently and now finds himself with ready-made grandchildren to entertain during the holidays and on vacation. He and his wife, Yvette, recently sailed from Port Canaveral through the Bahamas with the "grandkids." They will all be together again over the 4th of July this summer. Chris still volunteers much of his time having recently served on the Alumni Board, as a SCORE counselor and as councilman for the Town of Indialantic. He and Yvette are currently

concentrating on updating their Indialantic home.

**DAVID KACZMARCZYK '72** works as a software engineer for a company in Cape Cod. In his spare time, he is a volunteer alumni admissions rep for FIT at college fairs and an active participant in Habitat for Humanity projects.



**DOUG WILSON '77** received the 2013 Francis W. Reichelderfer Award from the American Meteorological Society at the 93rd AMS Annual Meeting, given in recognition of distinguished contributions to the provision of operational environmental services to

the public. Recently retired after 30 years as an oceanographer with NOAA, Wilson runs a consulting company, Caribbean Wind LLC, in Annapolis, Md.

1980s

**GERALD ZADIKOFF '82** owns GM Selby, Inc. ([www.gmselby.com](http://www.gmselby.com)), an engineering company and has hired a number of FIT graduates over the years. He has also worked with several Florida Tech professors on international projects in South Africa, Nigeria, the Caribbean, Mexico and Key West, and is now embarking on a new project in Africa. He opened offices in Tanzania to provide engineering consulting for infrastructure projects throughout Tanzania, including the expansion of the Port of Mtwara and is involved in several humanitarian projects including anti-poaching of elephants and rhinos as well as providing water for remote schools. He and wife Marina have been married for 33 years and have five children. The family lives in Miami.

**KEVIN KEEGAN '83** has been a member of the NYPD for 26 years and is a lieutenant. He has worked in various assignments in both the Bronx and Manhattan and is currently stationed at the 10th precinct in Manhattan. He says every day is a little different and usually entertaining.

**BILL MCCHRYSTAL '86** and **COLLEEN MCCHRYSTAL '86** were married in 1986. Both served in the military for 4-5 years. She was a helicopter pilot, and he was a combat engineer with the 82nd Airborne Division. Today, the couple lives in Coral Springs, Fla. They have three children, Jake, 20, a sophomore at FSU; Joe, 17, a junior in high school; and Adrienne, 15, a freshman in high school. Colleen teaches at their school as a 6th grade science teacher. Bill works for Carmax as a regional vice president for merchandising. His son Joe plays high school football as a quarterback and is considering the possibility of playing for Florida Tech.



**SCOTT TESSEIN '88** is the aviation maintenance and logistics manager for the U.S. Army Reserve Command at Fort Bragg, N.C. He is responsible for acquisitions and budget for a fleet of 205 aircraft. He and wife Diana have two daughters. The family lives in Sanford, N.C.

**BARRY EAGER '89** has been running his own production company, Phantom Films of Florida, since 2005. He has produced a number of projects for Florida Tech, Port Canaveral and other clients. In addition to previous professional jobs, Eager worked as a professional model and television actor for many years on projects including "The Adventures of Superboy," "Seaquest," "Nickelodeon," "Passenger 57," "Matinee" and other commercials and print campaigns.

PHILIP SCHOENIG '96 M.S. MANAGEMENT/LOGISTICS

Phil Schoenig is the deputy director of Raytheon's in-plant contract management office in Tewksbury, Mass., where he supervises civilian and military personnel at seven plant locations in the New England area.

A retired Army lieutenant colonel and triathlon athlete, Schoenig's next mission is to cycle 3,457 miles across America to spread awareness and fundraise for the Wounded Warriors Project, a nonprofit organization that serves severely injured military veterans and service members.

"After having a healthy 28-year military career, I wanted to give back to the many heroes who were not so fortunate and Wounded Warriors does so much to bring them back to their new normal," says Schoenig.

Schoenig is a recipient of many awards including the Meritorious Service Medal, Army Achievement Medal with Oak Leaf Cluster, National Defense Service Medal, Global War on Terrorism Service Medal and National Defense Transportation Association Distinguished Service Award for 1990.

Meet Phil Schoenig

In three words: Dedicated, honest, loyal

Family: Two children Kelsey, 19, and Parker, 16

Little known fact: I like to listen to rap music.

Notable achievement: Graduating from the U.S. Army Ranger School

Hobbies: Triathlons





He enjoys golf, fishing, surfing, exercise, photography, cooking and the local scene in Downtown Melbourne nowadays. He loves his work and enjoys seeing a Phantom Films program being viewed by a large audience.

## 1990s

**RAY PAPROCKY '90** and his family live in Floral Park, N.Y.



He is 67 years old, married to Christine for 16 years, and they have two daughters, Nicole, 10, and Jessica, 7. Ray works for a biotech pharmaceutical company, Biogen Idec, and his wife is a physical education teacher.

**TYLAN HANNAN '91** currently lives in Cape Coral, on the west coast of Florida, with his wife of 16 years and their 9-year-old twins (boy and girl). He spends most of his spare time with his family, including coaching his kids' soccer teams three times a week and traveling and visiting family in Canada and South Africa. He still plays in a men's soccer league and enjoys an occasional round of golf. For the last eight years, he has worked in the investment real estate business as well as owning home improvement companies.



**REBECCA LAMBERT '91** lives in Orlando with her husband John. She is currently working as a writer and editor on independent projects. As an alumni association board member, she is looking forward to growing the association around the world. She enjoys traveling and recently visited Alaska, Hawaii, Italy and St. Thomas, but has the most fun visiting her grandchildren in Melbourne!

**ALVARO FUSTER '92** has been working in the defense and military business since 1992, representing U.S. compa-

nies like Boeing, Honeywell and Flir Systems in Spain. He also started a renewable energy business in 1997 called Spanish Power that develops, constructs, finances and runs wind energy and PV (PhotoVoltaic) farms in Spain, Sweden and Finland. He enjoys competing in triathlons (finished several Ironman 70.3 races) as well as tennis, water skiing and kitesurfing, but unfortunately had to quit soccer a few years ago due to several knee surgeries. He and his wife Beatriz have a 5-month-old son, Alvaro (future Panther!).

**TODD HUBMER '92** is vice president of WSB & Associates, Inc., managing the water resources group. The company is designing and monitoring several new technologies to improve the quality of storm water runoff from urban land uses. Todd has recently traveled to Australia, New Caledonia, Hawaii and New Zealand.

**DYLAN LEWIS '92** recently moved to Annapolis, Md., after living in Indian River County for over 20 years after graduating from FIT. He has been married to his wife Meeghan for 20 years, and they have three sons, Jyoti, 15, Owen, 10, and Bryn, 10. Dylan works at The Key School, a private K-12 school, as an MS/US mathematics teacher and department chair, and he also coaches soccer and tennis at the school. He is currently enrolled in the Graduate Institute at St. John's College, Annapolis. He enjoys the seasons and watching his sons in all their activities in and out of school.

**KAREN BARKER '93** M.S. works at Brahe Corporation. She serves as an advisor for strategic space programs and plans for the U.S. Government Defense Department, FAA and NASA. Karen focuses on Space Coast interests in Washington, D.C., helping to forge roadmaps for the way ahead in our national space future.

**EDDIE ENDERS '93** was inducted into the Florida Tech Sports Hall of Fame on Feb. 1, 2013, and was recently



appointed to the Florida Tech Alumni Association board of directors. He lives in the Melbourne area and works at Harris as an advanced products engineer traveling to locations throughout the U.S. supporting his customers. This year, he celebrated his 20th wedding anniversary with his wife, Sherri. His daughter Lindsey is a member of the University of North Florida track and field team and won the pole vault competition at the Atlantic Sun Conference Indoor Championship, setting a new school and Atlantic Sun Indoor Championship record. His son Evan plays on the varsity soccer team at Holy Trinity Episcopal Academy and was named to the Florida Today All-Space Coast First Team.

**JOEL STEPHENS '93** moved to Tampa in 1994 and joined



Thomas Financial, of which he is now an owner/partner. He and **JANET (SHERMAN) STEPHENS '94** have two daughters, Jordan and Janelle. They are very involved in the children's activities including school, sports and dance. They are also active in the Tampa Bay community, both socially and philanthropically, and have continued their involvement with Florida Tech. Joel enjoys golf, coaching, exercise and travel. He says, "Our family likes to travel mostly to tropical destinations, even though we live in Florida!"

**GLENN DUBE '94** has been promoted to Lieutenant with the Southington, Conn., Fire Rescue Department, where he has served for the last 12 years. He has also been an adjunct instructor since 2007 with the Connecticut Fire Academy, where he has lectured on Crew Resource Management for the Fire Service both statewide and nationally. He lives in Southington with his daughter Caitlin, 7, and his son Tim, 4.



**ARNALDUR LOFTSSON '94** is managing director of Frjalsi Pension Fund, a pension fund operated by one of the largest banks in Iceland. He has been in a relationship since 1996 with Hafdis Bóðvarsdóttir and the couple has three children: Valdis, 12, Bjarki, 9, and Elsa Kristin, 6.



**WINSTON B. CANNICLE '95** works for the Broward County Aviation Department as the Noise Information Officer dealing with noise and community affairs for the Fort Lauderdale-Hollywood International and North Perry Airports. He also functions as the environmental compliance officer, providing assistance to the environmental manager in maintaining tenant compliance with the Annual Storm-water Pollution Prevent Plan (SWPPP) and other environmental issues related to both airports. He and wife Stacy have two children, Jillian, 9, and Winston Jr. (Julian), 3. Winston, an avid family man, enjoys going on trips with his family, going to church, fast cars, and watching and playing football (soccer). He plays recreationally in a Men's "Master" Soccer League in the Fort Lauderdale area.

**TODD WEST '95** was published in the inaugural issue of The Giving Institute's Shared Intelligence newsletter. His article examined the impact of five provisions in the American Taxpayer Relief Act of 2012 (the January law that avoided the "fiscal cliff") as they related to charitable giving. The issue featured stories that provided advice for fundraising professionals to adjust to changes

in the tax code and how they could affect philanthropy. The article can be found at <http://bit.ly/10ZE717>.



Newly appointed alumni board member **CHAD SHOULTZ '96** and wife **MICHELLE '97** M.S. of Indialantic have enjoyed experiencing the exciting transformation of Florida Tech over the past several years. Alumni weekend events, sporting events and summer sports camps for their kids, Brock, 9 and Grant, 7, are just a few family activities they continue to enjoy on campus.

**GEORGE ZAMKA '97** M.S. is the Deputy Associate Administrator for Commercial Space Transportation with the Federal Aviation Administration. He retired as a Colonel after 26 years in the United States Marine Corps. A graduate of the United States Air Force Test Pilot School, he has accumulated more than 5,000 flight hours in over 30 different kinds of aircraft, including 66 combat missions over occupied Kuwait and Iraq during Desert Storm. Selected by NASA as a pilot astronaut in 1998, he flew on two space shuttle missions to the International Space Station—STS-120 as the pilot and STS-130 as the commander. He has logged over 692 hours in space.

**JUAN P. ISAZA '97** MBA, '98 M.S. currently works for Citigroup as an infrastructure technology risk/legal/regulatory analyst for the global data center team. He relocated back to Florida from New York City two years ago. He and wife Adriana Baena are expecting their first baby "Elena" at the end of September. Recent travels have included Argentina (awesome country, excellent wine, food and polo horses), Colombia (our home country, BEST coffee ever) and Portugal (GREAT country too, excel-

lent wine, food, people, fado, history). Their next destination is Chile.

## 2000s



**DAVE ATKINSON '00, '02** MBA, and **AMY (MCEWEN) ATKINSON '00, '03** MBA, currently live in Northern Virginia, just outside of Washington, D.C. Dave worked for Morgan Stanley for 11 years before recently joining UBS Financial Services in February 2013. Amy joined Harris Corporation after graduating from Florida Tech and is currently a human resources director for ICF International. They celebrated their 10-year wedding anniversary on April 26, 2013. They have two sons, Jace, 4, and Taylor, 2, who take up most of their time. Dave is still very active in soccer, both playing and coaching in the local community.

**LCDR SARAH DUNSFORD '00** is currently serving in NOAA's Commissioned Officer Corps at the Office of Marine Aviation Operations—Commissioned Personnel Center in Silver Spring, Md. Her current assignment is workforce planning and budget formulation, a far cry from her ecology and marine biology days at FIT. Her next assignment will take her back to the big blue, aboard one of NOAA's research vessels. Her career with NOAA has been a most excellent adventure, taking her to Hawaii, California, Mississippi, D.C. and hopefully back to New England this summer. Still an active member of the FTAA board of directors, she enjoys her annual pilgrimages back to Melbourne for Homecoming and to visit old friends.

**RYAN KAUFMAN '01** and his wife Karen welcomed their

## DAN HENDRICKSON '09 AEROSPACE ENGINEERING

As director of space systems at the Aerospace Industries Association (AIA) in Arlington, Va., Dan Hendrickson advocates on behalf of the space industry to stakeholders at the White House, Congress and executive agencies. He recently served as the primary author of *Space in our World*, a publication that highlights the irreplaceable ways space has saved lives and dramatically improved our quality of life. He also spearheaded the AIA's crowdfunding effort to inspire excitement toward a new era of U.S. space exploration and promote STEM education. The campaign successfully funded the purchase of multi-city ad trailers in advance of the movie "Star Trek Into Darkness" during its opening weeks. The 30-second segment showcased NASA's next generation space operations and encouraged young minds that "an inspiring space program awaits, one that is worthy of their ambition."



### Meet Dan Hendrickson

Current City: Washington, D.C.

Hobbies: Photography and Genealogy

Family: My mom Lisa and father Ray, whom I owe so much for inspiring and motivating me.

Favorite Florida Tech Memory: All-nighters in Olin Engineering

Best Part of Being a Florida Tech Alumnus: Seeing the impressive achievements of classmates since graduation. It's exciting to see so many doing world-class work early in their postgraduate careers.



Squadron (VR-56). The family currently resides in Chesapeake, Va.

**BROOKE PORTER '01** and **ENRICO ANDREINI '02** welcomed their son Orlando Ka'wai Andreini, on Sept. 17, 2012, in Manila, Philippines.



Brooke earned a Master of Education degree from Chaminade University in 2006 and is a Ph.D. candidate in fisheries livelihoods at Auckland University of Technology. Enrico earned a master's in aquaculture from Stirling University in 2006. The family

has been living in the Philippines since 2011, where Brooke is pursuing her research and Enrico is working on a sustainable fisheries project with livelihood components.

**JASON TERRERI '01** assumed the role of Interim Director of New Business Development for Hartsfield-Jackson Atlanta International Airport (ATL) on April 25, 2013. He will lead the team responsible for market research, air service development, innovations and new business development activities for ATL.

**KEVIN MENARD '02** is celebrating the third birthday of his son, fourth anniversary of his business (The Broken Barrel Tavern) and seventh anniversary of his marriage to fellow Florida Tech alumna **REBECCA DAVIS MENARD '03!** He writes, "Things have been going at break-neck speed in our lives, but we love every minute of it! I'm happy to also announce that our business



2010s

*In Memoriam*

**DANIEL CONNORS**, 77, passed away on March 20, 2013 in Melbourne. He retired as a CWO4 from the U.S. Navy after 32 years and then he worked 17 years at Florida Tech as the mailroom supervisor.

**FRANCIS (FRANK, FRAN) QUAIEL**, 84, passed away on March 15, 2013. He worked at the Evans Library after retiring from an engineering career that included Harris Corp., ITT Corp. and Dictaphone.

Trustee **JOHN SLACK** passed way Feb. 24. He proudly served on the Florida Tech board of trustees for 20 years. He is survived by his wife, Shirley, five children, 14 grandchildren and one great-granddaughter.

is a proud Platinum Level Panther Sponsor, and we have also reached out to community organizations such as The Space Coast Early Intervention Center, Relay for Life, PAL, Toys for Kids, Big Brothers/Big Sisters as well as local elementary, middle and high schools and youth sports teams. In its third year, our Space Coast Craft Beer Festival raised \$10,000 for The Space Coast Early Intervention Center, and we look forward to even bigger news in the coming months!"

**JAKE WHITMORE** '02 started working for Enterprise Holdings after graduation and was quickly promoted to the Orlando area to pursue his career with the company. He is currently an area manager overseeing a territory of seven locations between New Smyrna and Ormond Beach. He also continued to pursue his musical interests, and in 2006 was the lead singer for the band "New York To Tokyo" that was signed to the then LA-based independent record label, Redcar Records. Their debut EP "Sunshine Superstar" was released on iTunes and received strong industry acclaim. Today, although no longer singing with the band, it is not uncommon to find Jake behind the microphone. He currently lives in the Dr. Phillips area of Orlando with his wife of 5 years, Rebecca,



and their two dogs, Ozzy and Morrison. The couple is active in community sports and belongs to several different competitive organizations in the Orlando area.

**OYTUN ASKIN** '03 and wife **Megan** welcomed baby. The family resides in Kissimmee, Fla.



**SAMAN KHOSRAVI** '04 currently resides in Vienna, Va., and is CEO & COO of Aerocoast LLC.

**CLAIRE SURREY-MARSDEN** '04 is a commissioned officer in the NOAA Corps and is currently assigned as the Operations Officer on the newest ship of the NOAA Fleet, the **REUBEN LASKER**. The Lasker is the fifth of the new Fisheries Survey Vessels, a cutting-edge class of ships designed specifically for NOAA's National Marine Fisheries Service mission to study our ocean resources. The FSV class is designed to study the environment under quiet conditions so as not to disturb the natural behaviors of fish and mammal species. The ship is equipped with state-of-the-art acoustic and survey capabilities as well as Dynamic Positioning, a complex motion control system designed to maintain the ship in a specific location during the deployment of underwater research technologies. Chad, Claire and panther cub Hudson Marsden have been active members of the newly

formed San Diego chapter of the Alumni Association.



**DANIEL OLDAY** '05 and his wife welcomed their daughter **Keira** in September 2012. They live in Homestead, Fla.

**ERIC MCKENNA** '07 and **AMY MCKENNA** '06 had a daughter on July 5, 2012, **Kaylee Rose**. Eric took a job working as a liaison engineer on the 747 for Boeing in November of 2010. They live in the Seattle area.

**PAUL SIERPINSKI** '07 M.S. and **SUSIE ALLEN SIERPINSKI** '07 M.S. currently reside in Waldorf, Md. Paul is a test director at Naval Air Warfare Center, Aircraft Division. Susie works at the ASRC Research & Technology Solutions as a system safety engineer.



**CASSANDRA (MOLL) GONYER** '08 is the goal-keeper coach for Melbourne High School's girls soccer team, which won the 2013 Class 4A State Championship in an overtime penalty kick shootout.

Submit your Alumni News Notes to [alumaffr@fit.edu](mailto:alumaffr@fit.edu)



**JOSEPH NOEL** '10, '12 MBA, is back home in the U.S. Virgin Islands working for a small IT company. In December, he met up with fellow alumnus **DION ST. HILAIRE** '09 and his fiance **Maria Rolle** who was delayed over night on St. Croix. They had a good time catching up and remembering their freshman year. Joseph recently got back from the Rolex Regatta in St. Thomas and BBVI Spring Regatta in Tortola where we placed fourth and third, respectively. In late May, he plans to move back to Melbourne in hopes of getting a job and helping out with the Alumni Association.



**SAM ORMSBY** '11 is currently working as a marketing coordinator/account executive for Designers' Press Inc., a design and print company in Orlando. He is also part of the Orlando City Soccer marketing team, supporting its efforts to become an MLS franchise.



**ANN-MARIE HELGESTAD** '12 is currently pursuing a master's degree in finance at Hult International Business School in London. She will be studying in Shanghai, China, for six weeks this summer before graduating in August. She recently returned from an amazing ski holiday in St. Anton in Austria, experiencing some of Europe's most beautiful scenes, as well as a great Easter weekend in Norway. In September, she will return to Norway and begin working in the wealth management/private banking division of a Nordic bank called Nordea.

News from the desk of

## Bino Campanini '90, '92 MBA

Assistant Vice President for Alumni Relations  
and Executive Director, Alumni Association

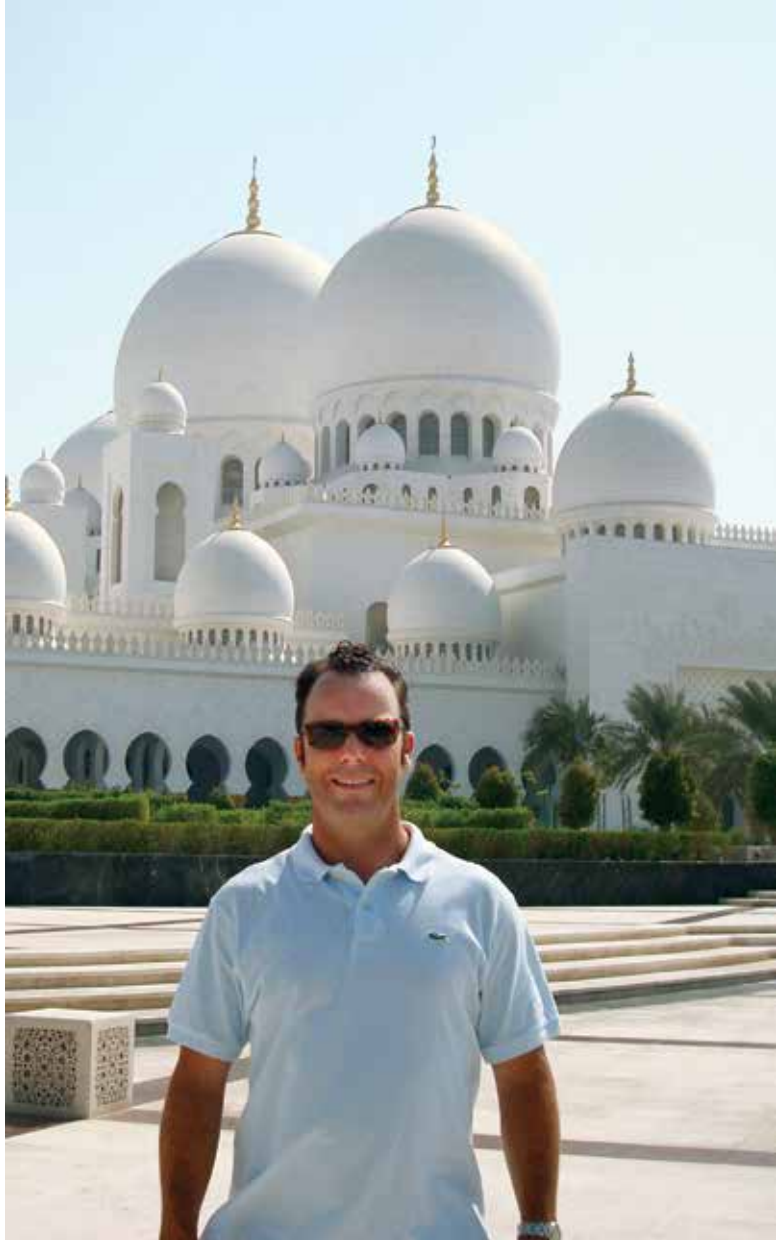
### ON INTERNATIONAL ENGAGEMENT

Florida Tech has traditionally had a large international presence on campus and that remains true today. Yet despite great distances, we want our international alumni to feel as strong a connection to their Panther family as our domestic graduates do. We work to facilitate that engagement in several ways. Prior to each commencement, we hold an international reception for graduates and their families—with some travelling from as far as India, China and the Middle East.

International alumni also receive *Florida Tech Today* and the e-newsletter *Panther's Tale*. We send *Florida Tech Today* to all alumni for whom we have a mailing address, so be sure to keep your contact information current.

### ON OVERSEAS RECEPTIONS

We hold overseas alumni receptions on a limited basis, typically in areas where we have large and organized alumni groups such as the West Indies, Kuwait and United Arab Emirates. To engage with more groups, we have begun holding smaller, more intimate receptions hosted by travelling faculty. Recently, **FREDRIC HAM** visited Thailand and South Korea, and this summer, **PIERRE LAROCHELLE** is travelling to Beijing and Shanghai.



At the Sheikh Zayed Grand Mosque in Abu Dhabi during the UAE alumni reception in March

### ON GROUP TRAVEL

In the past, the Office of Alumni Affairs, in conjunction with the FTA, had a group travel program for alumni. While this type of program is common at larger universities, it is difficult to implement at smaller institutions due to limited participation.

After several inquiries about travel opportunities, we are exploring a partnership with the Brevard Zoo to offer two trips—**GALA-PAGOS ISLANDS** and **KENYA**—within the next 18 months. Stay tuned for more information.

### ON PARTNERSHIPS

Partnering with other entities allows us to offer activities to our alumni that would otherwise be beyond our resources. For example, last fall's Homecoming Fest featured a national recording group and an audience of nearly 10,000 thanks in part to our partnership with Melbourne Main Street, the City of Melbourne and the SGA.

Alumni also facilitate many activities. We are currently preparing a program for juniors and seniors called **REAL WORLD 101**, a seminar series on student loans, taxes, investing and more. Most seminar leaders will be alumni.

### ON MEETING ALUMNI

I've had the pleasure of meeting thousands of successful alumni. Most recently, I toured the Melbourne campus with retired Gen. **ANN DUNWOODY** '88 M.S., the first female four-star general in the U.S. military. Dunwoody received her master's in logistics management from our Fort Lee campus and credits her degree in helping her reach her career pinnacle. In her last position, she led the Army Materiel Command, the Army's largest global logistics command, where she managed a \$60 billion budget and approximately \$70 billion in service contracts. She is an impressive woman and a great Florida Tech Panther!



### ON ALUMNI NEWS NOTES

We want to hear from you! Surveys show Alumni News Notes is one of your favorite sections of the magazine, so I encourage you to help us expand it.

Send your news to [ALUMAFFR@FIT.EDU](mailto:ALUMAFFR@FIT.EDU). We will share it with the 50,000+ alumni worldwide!





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# Pete the Panther is **HERE** *Photo Contest*

Florida Tech is with you  
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Share your panther pride and  
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Simply cut out Pete the Panther  
on the dotted line, then take  
a photo of you and Pete in a  
unique destination.



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### *Prizes!*

The best photo will receive a  
Panther Pride Package that  
includes fun Florida Tech gear.





*Florida Institute of Technology*

Office of Marketing and Communications  
150 W. University Blvd.  
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## My, my, Florida Tech's turning 55!



**YOU'VE GOT TO LOVE THESE HIGH-KICKERS FROM 1981!** Tell us who they are at [fltechtoday@fit.edu](mailto:fltechtoday@fit.edu).

While you're at it, help us celebrate **Florida Tech's 55th anniversary** by sharing what else you love about your alma mater. We'll count the ways in the next issue, plus announce details on this fall's homecoming extravaganza.

Send your comments to [fltechtoday@fit.edu](mailto:fltechtoday@fit.edu).