Florida Tech TODAY

A magazine for Alumni and Friends of Florida Institute of Technology

WINTER 2010



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Golden Anniversary Campaign Surpasses Goal New Research Park Ignites Innovation Getting 'Green' In China | Honor Roll Of Donors

President's Perspective

Dear Florida Tech Alumni and Friends,

Thanks for picking up the Winter 2010 edition of Florida Tech TODAY. We appreciate our readers!

This issue gazes skyward ... focusing on Florida Tech's ties that are found in the heavens, and our ongoing relationship with NASA and the space program. Since our founding as a "night school for missilemen" in 1958, we've been a



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HOW TO KEEP IN TOUCH

CHANGING ADDRESSES?

ADVERTISING SALES

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proud member of NASA's extended family. Now, as the space shuttle era draws to a close, we reflect on our longstanding partnership with manned space flight and look to the future. Florida Tech researchers are involved in a range of studies with connections to space. We have faculty who are former astronauts and researchers, alumni who are astronauts, as well as countless alumni whose work connects them to the space program in some fashion.

So, what's next? Former astronaut Neil Armstrong once said, "Science has not yet mastered prophecy. We predict too much for the next year and yet far too little for the next ten." Wherever the U.S. space program goes from here, Florida Tech looks forward to joining in the

My best wishes for a safe and rewarding 2010!

Sincerely yours,

A.J. Catanese, Ph.D., FAICP President



President and Mrs. Catanese at the President's Ball. Turn to page 10 for the full story and more photos.

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Cover Story: The space shuttle's retirement brings mixed emotions



Feature: Searching for sustainability in

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Alumnus Alan Prestwood leads the parade.

cover story

Great Expectations

Florida Tech, the space shuttle's farewell and the future of flight.

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Spirits Soars as Golden Anniversary Campaign Surpasses Goal

The historic fundraising drive garnered nearly \$60 million.

Getting 'Green' in China

Alumnus Milo Zonka reports on sustainability.

Ball Is 2009 Aviation Professional of the Year

Alumnus Robert M. Ball earns high praise from the Florida Department of Transportation—twice.

Exploring the Boundaries of the Solar System

Faculty search for exciting stories on the edge of space.

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On the cover: Final Flights—Space shuttle Atlantis lifts off from Launch Pad 39A on May 11, 2009. The STS-125 mission serviced NASA's Hubble Space Telescope. NASA photo

Alumni Association

Alan Prestwood '73 '80, President West Melbourne, FL alan.prestwood@gmail.com John Valente '76 '81, Vice President Hampstead, NC jfunding76@yahoo.com Mike Gordon '94 '00, Treasurer Palm Bay, FL m_gordon@bellsouth.net Alexis Loo '75, Secretary Pasadena, MD

Mailbag On Campus

Early inspirations

As I've expressed to Dr. Andrew Revay, who was my faculty advisor back during my undergraduate days at FIT, the tremendous opportunity afforded me by the superlative learning environment that was FIT in the early 1970s had a definitive role in my eventually reaching the Senior Executive Services ranks of the U.S. Air Force. FIT's unwavering commitment to excellence helped enable me to take on many challenges in the Department of Defense—a tribute to Jerry Keuper, John Miller, Ray Work, Harry Weber, Andy Revay, Gibson Finley (ROTC) and all the hard-working faculty and staff of the university during that formative time. It has also been great to continually run into other

Defense Department alumni of the university as FIT has spread its wings academically and appealed to many.

I made it back for the 50 year celebration and look forward to other visits.

All the best. Ed Koenig '73

Kudos to 'Clut'

Being a computer science grad, I remember Dr. Clutterham well. He took one of our classes to Martin Marietta to see an example of a functioning analog computer. On the return trip, the group stopped at a fast-food type of establishment for a snack. The counter girl was obviously not very intelligent. She had us all give our names

to be called out when our order was ready. After observing her difficulty with any name that was not really simple, Dr. Clutterham realized he had a problem. He simply stated his name was "Clut," and then had to spell it for her! Dr. Clutterham was a gentleman above all else, and a pleasure to learn under.

Tuck Fuller '70

We'd love to hear from you. Tell us what you'd like to see and give us your responses to the articles you've read in the magazine. Send your comments to fltechtoday@fit.edu.

An Evening of Hope II **Cocktail Reception** Live Auction

Friday, April 9, 2010

6-9 p.m.

The Scott Center for **Autism Treatment** Florida Tech Campus





For more information, contact Carey Gleason at (321) 674-6100, e-mail cgleason@fit.edu or visit http://research.fit.edu/scottcenter

Artwork: Derek Gores, "Blowing Bubbles," torn paper collage on canvas, 2009



New Research Park Ignites Innovation

"Collaborating with

Airport to utilize its

Melbourne International

physical resources for the

Florida Tech Research Park

is a win-win scenario."

President Anthony J. Catanese

Central Florida's technology-research infrastructure is getting a jolt from the university. Through creation of the Florida Tech Research Park at the Melbourne International Airport, Florida Tech and the Melbourne Airport Authority are entering a 20-year partnership aimed at fostering economic development and increasing the region's high-tech competitiveness.

"This relationship is a logical next step for the university," said President Anthony J. Catanese. "Florida Tech has world-class professors leading important research in a range of areas, from aerospace to biological sciences to engineering and beyond. Collaborating with Melbourne International Airport to utilize its physical resources for the Florida Tech Research Park is a win-win scenario."

Approximately 100 acres of prime land fronting Melbourne's NASA Boulevard is designated for the

park, which will lie within the Airport Industrial Park. The airport has approximately 500 acres of available land that can be developed and added to the research park, about 30 acres of which are contiguous.

"We couldn't ask for a better partner to establish this new research park," said Airport Executive Director Richard Ennis, CPFO. "The impressive work already being done at

Florida Tech, combined with the number of hightech and defense-related airport tenants, create the ideal atmosphere for innovation and development."

Florida Tech's Emil Buehler Center for Aviation Training and Research and its Applied Research Laboratory will be important components of the park, which will include a 25-acre joint-use research



compound for applications such as solar collection, or other related, sustainable

energy systems.

"We believe that the Florida Tech Research Park will be very attractive to both start-up businesses as well as more established enterprises," said Cliff Bragdon, vice president

for strategic initiatives.

Dr. Catanese and Richard Ennis of the Melbourne International Airport ink the 20-year deal to create the Florida Tech Research Park Dec. 2.

Bragdon said the park will provide a wealth of research, educational, professional development, intellectual property and consulting opportunities through Florida Tech.

Research parks are well-established economic engines worldwide. A 2007 study by the Battelle Memorial Institute and the Association of University Research Parks found that 2.57 jobs are created in the general economy for every job created within a research park.

Textiles Tell Tales at New Funk Center

The Ruth Funk Center for Textile Arts, opened just last August, now offers group tours and averages almost 100 visitors a week.

The first exhibit of 2010, "Speaking with Thread: The Narrative of Textiles," runs Jan. 30-April 24. This features textiles that present stories through their imagery and symbolism. Objects on display include Persian carpets, Imperial Chinese robes and embroidered European samplers.

Uncommon Threads, Feb. 18-19, will celebrate English embroidery and feature the sixth annual Ruth Funk Lecturer in Textiles. She is Melinda Watt,

associate curator, department of European sculpture and decorative arts and supervising curator of the Antonio Ratti Textile Center at The Metropolitan Museum of Art in New York City. Her free lecture on Feb. 18 is "The Biblical 'It' Girls: Female Heroines in English Embroidery." The luncheon symposium on Feb. 19 offers "Twixt Art and Nature: Floral Imagery in English Embroidery." The cost is \$60.

Center hours are Tuesday–Saturday, 10 a.m.–4 p.m. The center contact number is (321) 674-8313. Visit http://textiles.fit.edu. See ad on page 8.

On Campus On Campus

Scott Center Opens to Target Autism Treatment Options



Anthony Catanese, Mary Beth Kenkel and Edward Scott at the dedication of the Scott Center.

In October, the university dedicated the \$5.2 million Scott Center for Autism Treatment, designed to lead the way in exploration of this complex condition.

"Early, intensive behavioral intervention for young children has shown the most significant results," said Fran Warkomski, executive director of the new center. Under a mantra of "Service, Research and Training," the center is probing the mysteries of autism and, most importantly, working with one child at a time to mitigate its effects.

"The stakes are high from a parent/family perspective," Warkomski added. "They expect answers from experts in the field."

Mary Beth Kenkel, dean of the College of Psychology and Liberal Arts, has played a key leadership role in launching the center. Meanwhile, area

businessman, co-founder of the Center for Global Development in Washington, D.C., and Florida Tech Trustee Edward Scott initiated support of the center. Additionally, the Health Resources and Services Administration supported the facility with \$2.4 million in federal funding.

"Florida Tech is particularly grateful to Scott and former congressman Dr. Dave Weldon for all of their efforts in making this facility a reality," President Anthony J. Catanese said.

The 22,000-square-foot center will provide services for individuals with autism spectrum disorders, training for parents, teachers and other professionals and research on effective treatments

The facility is organized around a central glass lobby and features a playground, complete with a tricycle path, swings, basketball, putting green and a large activity center. Support for the playground was provided by the Evening of Hope fundraiser held in April 2009. Evening of Hope II is scheduled for April 9, 2010.

A stunning focal point in the lobby is the torn paper collage on canvas, "Blowing Bubbles," by area mixed media artist Derek Gores. It was acquired at the Evening of Hope fundraiser by Dr. Ruben and Rita Moreno who

donated it back to the Scott Center. Gores is now making prints of it available as an additional center fundraiser. Send e-mail to derek@derekgores.com.

The Harris Institute for Assured Information was made possible by a \$5 million gift from Harris Corporation through the Community Foundation of Brevard. An additional \$2 million in corporate dollars is earmarked for research."Our work here at the Harris Institute for Assured Information is as practical as it is visionary. This institute is dedicated to developing advanced solutions to solve global information problems for businesses, governments and individuals," said Howard L. Lance, chairman, president and chief executive officer of Harris Corporation.

Unlike other information research efforts that target classified government applications, the new institute's mission is to develop solutions for a wide range of real-world commercial and government

New Harris Center Explores Cyber Research

Supported by Harris Corporation leadership and by community members, Florida Tech officially dedicated the new 27,723-square-foot Harris Center for Science and Engineering in October. The center, made possible by a unique partnership between Florida Tech and Harris, houses the Harris Institute for Assured Information, which is designed to research innovative solutions to global information security problems.

"Partnering with our colleagues at Harris is an excellent strategy to solve these difficult challenges. Florida Tech intends to be at the forefront of this research," said Florida Tech President Anthony J. Catanese.



Jack Hartley, Anthony Catanese, Phillip Farmer and Howard Lance at the dedication of the Harris Center.

applications. These include banking and finance, retail, health care, education, civil agencies and

The vision for the institute is to create a national center of excellence for cyber research in Melbourne. The institute will strive to become the local center for ongoing workforce development in information assurance and a thought leader addressing the problems that users, companies and governments face with respect to using and storing information safely. The three-story facility also includes space for biological sciences and computer sciences.

\$850,000 NIH Grant Funds Chronic Inflammatory **Disease Studies**

Joshua Rokach, chemistry professor and director of the university's Claude Pepper Institute, has been awarded a two-year research grant of \$850,000 from the National Institutes of Health (NIH). The grant, from the National Heart Lung Blood Institute, allows Rokach to continue his studies on chronic inflammatory diseases and especially on the design and synthesis of antagonists to the 5-oxo-ETE receptor. Such antagonists may find a use as anti-inflammatory and anti-allergic drugs.

Rokach has received worldwide recognition for the first syntheses of major inflammatory mediators

such as leukotrienes and lipoxins, which are responsible for allergies of the lung and nose. The availability of these synthetic mediators has opened the field to medical research in the areas of allergy and inflammation.



Among his accomplishments, Rokach was responsible for the development of the drug "Singulair," a leukotriene-D4 antagonist, used by millions of allergy sufferers for the relief of asthma and rhinitis symptoms.

First in Ranger Challenge Three Years in Row

Members of the Florida Tech Army ROTC Ranger Challenge team consistently prove their excellence, and this year is no exception. In the largest regional ROTC competition in the nation, Florida Tech cadets came in first place overall, defeating 41 other universities from Florida, Georgia, Alabama, Louisiana, Mississippi and Puerto Rico. The 10 Panther Battalion Rangers finished first in three of the nine events and placed in the top three in five more events. The Florida Tech team also took first place in 2008 and 2007.

The cadets' feat was celebrated on campus on Oct. 28. In a ceremony, participating cadets received their "branching" pins, the pins that identify their choice of U.S. Army branch upon commissioning. MSC **Michael Sonnenschein** is the team's adviser.



On Campus On Campus



SPEAKING with thread

Jan. 30-April 24, 2010



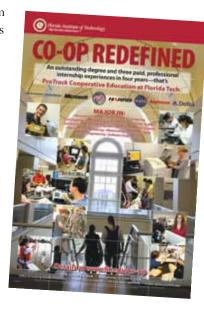
Tuesday—Saturday | 10 a.m.—4 p.m. Free Admission

http://textiles.fit.edu

Fast Track to Success: Co-op Engages Engineers

Long known for its high-tech, "hands-on" education, Florida Tech takes the concept further with the new Pro*Track* Co-op program for engineering and applied science students. Enrollment is going on now with the first class set to start August 2010.

The new program combines the benefits of traditional university cooperative education with a unique, studentcentered approach. Engineering students can complete three semester-long paid work experiences related to their major and career interests while earning a bachelor's degree in the traditional four years, with no graduation delay



"We are very pleased to offer this tremendous advantage to engineering students and to meet the needs and expectations of industry," said **Gary Hamme**, Florida Tech vice provost for enrollment management.

Benefits include major-related work experience, professional skill honing, co-op earnings, insight into one's professional strengths, experience with the latest technologies and expanding a professional network by building valuable relationships.

Students may work with employers in all 50 states. Current co-op employers include Apple Inc., The Boeing Company, Florida Power and Light, GE, Harris Corporation, Lockheed Martin, Microsoft, NASA, National Security Agency, Northrop Grumman, Raytheon, Siemens and United Space Alliance.

The Pro*Track* Co-op program is open to students admitted to any College of Engineering degree program.

For more information, visit www.fit.edu/co-op.

Prolific Publisher

Called by College of Science Dean **Gordon Nelson**, "A most prolific faculty member," **Ravi Agarwal**, professor of mathematical sciences, is a writing, editing and



Ravi Agarwal

publishing phenomenon. He is editor or associate editor of 40 international journals; many of these are considered best in the topic of mathematics. On average, he receives 15 papers a day to manage for these journals. He also teaches. And, in fall 2009 he visited Turkey and gave nine lectures in 20 days. Whew!

With a listing of 850 articles published in top international mathematical journals, it's no surprise that Agarwal is listed #3 in his field for most published papers and most citations. A researcher referencing another author's paper in his/her own paper is a citation. Additionally, he has published 23 research monographs or books. Among them

are two just published in 2009 and a third that has been accepted for publication.

Agarwal, who received a doctoral degree in mathematics from Indian Institute of Technology in Madras, India, and a master's degree in mathematics from Agra University in India, has taught and written in Canada, Italy, Germany and India.

"Dr. Agarwal is one of our unsung faculty members. Although largely unknown outside his field, he is a dominant figure in the world of mathematics," said Dean Nelson.

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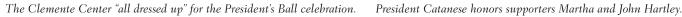
Our donors know that sound investments yield positive results.

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Join our team of smart investors and give to your alma mater today.

the Florida Tech fund an asset for all









Provost T. Dwayne McCay and Mary Helen McCay



Jack and Pat Pruitt share a moment with Victoria and Erik Joh

Spirits Soar as Golden Anniversary Campaign Surpasses \$59 Million

Excitement was the emotion of the evening as Florida Tech polished off its Golden Anniversary Campaign. The university officially concluded its 50th anniversary celebration on Sept. 26 announcing that the Golden Anniversary Campaign for Florida Tech had exceeded its \$50 million goal, raising \$59,465,000.37.

The campaign, under way since 2004, benefits a range of areas—from scholarships to bricks and mortar facilities. Supporters celebrated the successful campaign conclusion at a ball for donors held in the Clemente Center.

"The spirit of the Golden Anniversary Capital Campaign is inextricably woven into the fabric of who we are as researchers, scientists and educators," said Florida Tech President Anthony J. Catanese. "We look to the horizon and see not only what is, but what could be."

"As I reflect on the campaign, I'm particularly gratified to consider the thousands of students who will reap its benefits," said Campaign Chairman and Trustee **Phillip W. Farmer**. "Students from all walks of life, socioeconomic backgrounds, cultures and countries, now have new opportunities to pursue their dreams of an education thanks to expanded scholarship funds. Those seeking the latest in technology need look no further than the university's enhanced physical resources. New faculty and new programs will give these students the means to pursue their educational ambitions and to succeed."

Three examples of major gifts to the campaign: A \$5 million grant by the Harris Corporation Charitable Fund through the Community Foundation of Brevard to create the Harris Institute for Assured Information. The Harris Institute will focus on developing advanced solutions to protect global

information security. An additional \$2 million is earmarked for research and development.

A \$5 million gift designed to enhance business offerings and strengthen online education, given by Nathan M. Bisk, one of the nation's leaders in continuing education and online learning.

A \$1.5 million endowment to create the Farmer Scholars Program, given by Phillip W. Farmer. The retired chairman, president and chief executive officer of Harris Corporation said the gift was his way of recognizing the importance of scholarships for deserving students.

Other gifts include funding to build facilities and create programs for the Emil Buehler Center for Aviation Training and Research, the Scott Center for Autism Treatment, the Ruth Funk Center for Textile Arts and the Northrop Grumman Engineering and Science Student Design Showcase.

"The completion of this successful campaign affords us the opportunity to look inward, as we focus on quantifying those resources that are required to continue the advancement of the university's mission," said Dale A. Dettmer, chairman of the Florida Tech board of trustees. "The commitment to education and innovation is the core of our decision-making process. The storied history of this university stretches from the Earth to the moon and beyond, and serves us well as we face the challenges of the future."

"Foundations, corporations, individuals—all have stepped forward to affirm their belief in this university and its future," said **Kenneth Stackpoole**, senior vice president for advancement. "All have invested in that intangible yet all-important idea that Florida Tech's brightest days are yet to dawn."



Campaign Chairman Phil Farmer



Susan and Ken Stackpoole, Senior Vice President for Advancement



Bjørg and Bjørnar Hermansen



Board of Trustees Chairman Dale Dettmer



Jonathan Zung '86 and Renee Zung

Remembering Florida Tech ...

Founded at the dawn of the space race 51 years ago, Florida Tech is known for its research expertise and is the only independent, technological university in the Southeast. With more than 8,000 students enrolled on main campus, extended campuses and online, Florida Tech has been named a Barron's Guide "Best Buy" in College Education, listed among America's best colleges in U.S. News & World Report and ranked in 2009 as one of the nation's top 18 engineering technical institutes by the Fiske Guide to Colleges.

FIVE EASY WAYS YOU CAN HELP FLORIDA TECH GROW AND PROSPER

Help Us Recruit New Students

Help Florida Tech identify recruiting opportunities and refer potential students. Don't forget to use your Alumni Endorsement Grant privilege to award \$1,000 annually for up to four years to any students you nominate (any major). Alumni Endorsement Grant forms are available at www.fit.edu/alumni.

Help Us Keep Our Curriculum Relevant and Current

Recommend course updates, new courses or new academic programs based on industry trends and needs. Identify potential faculty members and/or potential donors for lab equipment or instructional materials.

Identify Key Contacts

Identify key industry contacts, potential board of advisers members, internship/co-op/career opportunities, fundraising prospects or other opportunities to partner with industry.

Contribute to the Florida Tech Fund

Your gift, whether \$100 or \$1,000, will help kick-start recruitment, curriculum, faculty, research and development projects throughout the university. Make your gift today and ensure Florida Tech's continued success.

Stay Connected

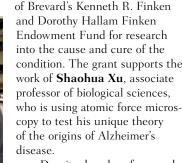
Keep in touch with your alumni association and participate in or help organize alumni activities and gatherings in your area or on campus. Additional information is always available online at www.fit.edu.

Advancement Alumni News

\$50,000 Gift Helps Explore the Enigma of Alzheimer's Disease

An estimated 5.3 million people have Alzheimer's disease. Additional funding to Florida Tech is helping in the fight for a cure.

The second \$50,000 gift in two years was recently given to the university from the Community Foundation





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Despite decades of research, there is no effective treatment for Alzheimer's disease because its

fundamental cause remains unknown. In the brain cells of Alzheimer's victims, molecules of a normal protein, called "tau," do something very abnormal; they join together to form tangled fibers that the cell cannot remove.

The fibers accumulate until essential substances cannot move through the cell and the cell dies. As brain cells are lost, memory and mental functioning deteriorate. But why do proteins suddenly begin to stick together? The prevailing theory is that normal proteins are first changed in shape, to an "infectious" form, in which the molecules link together to form a chain.

"From our own observations, we believe this theory is incorrect," said Xu. He began developing his theory in 1997, when he was studying mad cow disease at the University of Chicago; he was the first to use atomic force microscopy to actually see how the individual molecules

The grant funds critical lab equipment as well as materials and supplies critical for the research and will support a graduate student researcher for the team.

Xu's research is conducted at Florida Tech and the Space Life Sciences Laboratory, a unique research facility at Kennedy Space Center (KSC,) operated by the state of Florida in partnership with NASA and Florida universities. At KSC he uses a state-of-the-art atomic force microscope, one of the few in Florida, to study the mechanism of Alzheimer's.

Dan Woodard, a KSC physician, was the first medical doctor to review the research. He says, "Shaohua's theory is revolutionary; his evidence is overwhelming. The medical implications are beyond anything in my experience." NASA physician David Tipton, chief of the Aerospace Medicine and Environmental Health Branch at KSC, agrees. He said, "This could be the most important biomedical discovery ever made at Kennedy Space Center."

Working with Xu are former astronaut Sam Durrance, now a professor of physics and space sciences at Florida Tech, and a team of talented graduate and undergraduate student researchers.

Wachovia Wells Fargo Foundation Funds Scholarships

The Wachovia Wells Fargo Foundation has presented Florida Tech with a \$5,000 gift for the third consecutive year. The contribution is in support of the Wachovia Wells Fargo Foundation Merit Scholarship Program. The award will be presented to the recipients by a Wachovia representative during the university's annual Scholarship Reception in February.

"Wachovia and the Wachovia Wells Fargo Foundation is proud to contribute to scholarship programs that make a quality education at Florida Tech accessible to deserving students in under-represented groups," said Ann Luke, community bank president in the Brevard and Polk county areas.

Florida Tech will award the scholarship to up to five commendable students in an under-represented group, particularly female and/or minority students who are pursuing a degree in engineering, science or mathematics. The scholarship will be awarded first to a deserving senior down to a freshman-level student through the Office of Financial Aid. Qualifying applicants must have a grade point average of 3.2 or higher based on their past performance.

New Scholarship Salutes Engineering Pioneers

A new endowment for mechanical engineering students has been fully funded at \$25,000. The Marvin Yarosh and John "Jack" Wiles Endowed Scholarship is named for two Brevard County engineering trailblazers. The scholarship has been endowed by the Spacecoast Chapter of the American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE), the Canaveral Section of the American Society of Mechanical Engineers (AMSE) as well as by a generous gift from the Yarosh family. It is expected that the first award will be made to a sophomore, junior or senior-level student in time for the fall 2010 semester.

"Members of the Spacecoast Chapter of ASHRAE worked hard to raise the funds to establish this overdue endowment for Florida Tech," said David Poetker of ASHRAE. "We are proud to recognize two of our mechanical engineering pioneers of Brevard County, Marvin Yarosh and Jack Wiles, through this endowment."

Yarosh helped found the Florida Solar Energy Center in Cocoa, serving as its first associate director. Wiles founded the Canaveral Section of the American Society of Mechanical Engineers and the Cape Canaveral Technical Society, serving as president of both. Today the Spacecoast ASHRAE chapter has close to 100 members from Brevard, Volusia and Indian River counties, and the Cape Canaveral AMSE has more than 300 members in Brevard County. Both organizations support student chapters at Florida Tech.

RUSSELL J. BALLAGH | FINAL PRESIDENT'S LETTER from the FTAA President

From the desk of Association President Russ Ballagh '74

Sadly, this will be my last letter as president of the alumni association as I have completed my second year as president and my ninth year as a member of the national board of directors. It has been an honor and privilege to serve, and I am grateful to so many folks for their support and

At the head of the list is **Dr. Anthony Catanese** for his continued support of the alumni association. I also thank Ken Droscher, executive director. He and his staff work constantly to organize the chaos and make things work. I don't know how they get it all done.

I also applaud the work of the alumni association board of directors. These fantastic people sacrifice their time and energy without any compensation. They make me look good and, as John Valente quipped during the banquet, that is not an easy job.

I especially thank John for the excellent job he did as the chair of the 50th anniversary committee; **Alexis Loo** for her work on the 50th anniversary time capsule: Ken Calcatera for his efforts on behalf of our military alumni: Sarah Dunsford and Elizabeth Haupin for their work on the student ambassadors' homecoming parade float; Gene Buzzi for his persistence on the Jerome P. Keuper statue committee; Ray Wilkins for the 50th anniversary coin/medal; and Kathy LaMartina for bringing together Jensen Beach alumni. I also thank each and every board member who served while I was president.

Thanks also go to Past President George Poidomani. I believe George recruited more board members than anyone else. I leave the alumni association in good hands and welcome our new board members: Rafael Andrade, Bob Ball, Rodney Bowers, Dick Enstice, Dirk Fieberg, Deb Heystek, Don Hooper, Dave Kaczmarczyk, Jack Kelly and Jason Terreri.

The association is only as strong as its members. We need to encourage the growth and development of local alumni chapters so they can produce new members to serve on the national board. As the alumni association matures, we will need the flexibility to adapt to meet new challenges.

I believe alumni should recognize that the value of our degrees increases as the reputation of the university strengthens. We need to acknowledge that our success is in part due to our time spent at Florida Tech and to encourage other alumni to return to the campus to see for themselves the changes that continue to make our school unique.

Florida Tech remains one of the best kept secrets, and we need to use every opportunity to increase its exposure and name recognition. People need to know who we are.

To be honest, until I joined the board, I was not involved with the university except to respond to letters asking for money. Most of those I ignored. I kept in contact with fraternity brothers, and we had occasional reunions.

That has changed. The administration has been the driving force behind the alumni association and its ambitious effort to reach out to all alumni. Where two or more alumni are gathered, senior leadership has been there. Let's reciprocate and support the university as never before. I'll still be here to do my part.

Reconnect, Get Involved

So many alumni give so much back to Florida Tech. They offer their time and great ideas, and they give financially. Anything alumni give means a lot to the development of students and the growth of the university.

Iohn Courtney '67 is a standout volunteer. He provided the homecoming after-parade barbecue for many years, as well as barbecues for rowing events and fundraisers.

He said, "I had a very good time when I was at the university. I helped start a lot that had never been done before—basketball, baseball and the PIKES.

"I don't have a lot of extra money. What I have to give is my time. I believe that you should give back however you can."

For those alumni who are not yet involved, here are some opportunities that can make a big difference: recruiting students, providing internships, mentoring, holding or attending an alumni reception, contributing to a scholarship or fellowship in a beloved department and buying a Florida Tech license plate.

If nothing in the list appeals, but you have other ideas, the Office of Alumni Affairs is all ears. To volunteer in any way, contact **Ken Droscher**, associate vice president for advancement/executive director of the alumni association. He's at (321) 674-7191 or gopanthers@fit.edu.

Endowed Fellowship Honors Major's Memory

Army Major Mathew Earl Schram '01 M.S. was killed in May 2003 about 110 miles northwest of Baghdad. His convoy came under attack from gunmen who opened fire with rocketpropelled grenades and machine guns.

To honor Schram, an endowed fellowship has been established by faculty and staff of the Florida Tech Theater Logistics Studies program at Mathew Earl Schram the Ft. Lee, Va., extended studies site, a cooperative graduate program between the U.S. Army and Florida Tech.

The endowment supports one or more annual fellowships for military officers. To make a contribution, call the Florida Tech Office of Development at (321) 674-8962.

A native of Brookfield, Wis., Schram graduated from Immaculate Heart of Mary Catholic School in West Allis in 1981 and Brookfield Central High School in 1985, where he played football. He was an ROTC member at the University of Wisconsin–Whitewater before joining the army in 1989. He earned a master's degree in logistics management from the Ft. Lee site.

John "Jack" Wiles, previously of Merritt Island, died in December 2008. Marvin Yarosh passed away in March 2004.

Alumni News Alumni News



Alumni



Florida Tech supporters display their spirit at a fall alumni reception at the El San Juan Hotel in San Juan, P.R. From left: Maria Lebron Vizcarrando (current student's mother), Jessica Chardon, Manuel Figueroa '74, Daniel Chardon '03, Minerva Figueroa, President Anthony J. Catanese, Ricardo Sepulveda '01, Axel Rivera '02, Debra Wolfard, Senior Vice President for Advancement Kenneth Stackpoole and Juan Chipi '98.



Alumni and friends gather at the Costa d'Este Beach Resort in Vero Beach to connect, reconnect and learn more about the university. Ken Stackpoole, left, and President Anthony J. Catanese, flank Fritz and Bonnie Spitzmiller.



Among the large Florida Tech contingent is Tristan Fiedler, left, research assistant professor and assistant vice president for corporate and foundation relations. With him, hearing more about Florida Tech, is Peter O'Bryan.



Senior Vice President for Advancement Ken Stackpoole, right, gets to know more people in the Vero Beach community at the alumni reception, such as Scott Alexander and Gail Lulley.



Dean of the College of Science Gordon Nelson and Kerry Bartlett get acquainted.





The fresh air alumni get-together at Trenton's Waterfront Park joins Senior Vice President for Advancement Ken Stackpoole, left, President Catanese and Jonathan Zung '86, right, with a prospective student and her dad.



Jonathan Zung's family turns out for the picnic and game between the Trenton Thunder and Harrisburg Senators. With mom Renee are Andrew and Ashlev.



Active alumnus George Poidomoni '73 sits with Mary and Dennis McCarthy at the pre-game picnic.



From left, prospective student Othman Chaney and his father, and Asif Quoreji, guest of Hafeez Raja '85, join President Anthony J. Catanese at the City Club of San Francisco.



Smiling brightly all around in San Franciso are, from left: Helana Rottersman '87; Reagan DuBose '63, Florida Tech's first graduate when it was Brevard Engineering College; Bob Rowe, associate director of undergraduate admission; prospective student Megan Johnson and her father.



Enjoying a night out at the country club in Los Gatos are, from left, the event host Vic Verma '87, Ravi Pendekanti '90, Sunita Pendekanti and Robin Henley, Verma's assistant. Verma is now president of strategic venture development for Lockheed Martin.



Also in Los Gatos, from left: Bob Rowe, associate director of undergraduate admission; prospective student Garrett Grant and his mother; prospective student Marie Nielsen and her father Eric.

Preserving the Past

The Golden Anniversary Time Capsule was "buried" at the Florida Tech Alumni House on Oct. 17 as a crowd of alumni, staff, faculty and professors emeriti looked on. Not a typical burial, the Time Capsule is wall-mounted in the Alumni House for all to see—a visible reminder to preserve Florida Tech history. Visiting alumni are encouraged to view the gift from the Florida Institute of Technology Alumni Association Board of Directors in honor of the university's 50th anniversary.

The Time Capsule includes items of historic significance that symbolize the passion and dedication of alumni, faculty and staff from 1958 through 2009. At the university's 75th anniversary, the following contents will be revealed:

- Brevard Engineering College Class of 1965 Ring
- University Building Inventory with Campus Map
- Aerial Photos of the Campus—CD
- University Organization Chart
- 2009–2010 University Catalog
- Undergraduate and Graduate
 Online Materials and DVD—
 University Alliance, Florida Tech
 University Online
- Sociology, 8th Edition, by Richard T. Schaefer—University Alliance, Florida Tech University Online
- Senior Design Showcase—DVD and CD
- College of Engineering Senior Design Newspaper Articles
- Department of Physics and Space Sciences—DVD
- Photo of Class of 2009—CD
- Crimson Student Newspaper articles that might be written in 2059—CD
- Federal Depository Library
 Pin—Evans Library is the only
 Federal Depository Library in our
 Congressional District (Brevard
 County)
- Evans Library 25th Anniversary Booklet
- Evans Library Original Catalog Card and Printout of the Computerized Catalog Record of First Into Outer Space
- Arm Patch of Security Officer Royce McCain, shot and killed while on routine patrol, May 6, 2004



- Performance of President Catanese's Band "TWITCHY"—DVD
- Florida Institute of Technology History Book by Professor Gordon Patterson
- No Small Dreams 50th Anniversary History Book by Jay Wilson
- Delta Delta Tau Fraternity 35th Anniversary Commemorative Coin, Lapel Pin and DVD
- Alumni Association's 50th Anniversary Edition Directory
- Alumni Association Board Member Pin
- 50th Anniversary Gold Bowtie—similar to bowties worn by founder and first president Jerome Keuper

- Oversized Ring given to Alumni Association 50th Anniversary Banquet Attendees on Saturday, Oct. 18, 2008
- 50th Anniversary Commemorative Coin
- Florida Tech TODAY
 Magazine, 50th anniversary edition, Fall 2008
- Florida Tech Specialty License Plate
- President Weaver
 Congratulatory Letter to
 Dr. Paul Cosentino and his
 students for winning the
 1997 National Concrete
 Canoe competition
- First Gift to the University of 37 Cents

Getting 'Green' in China

In October 2009, I joined Florida Tech's Director of Athletic Partnerships **John Thomas**, who is also a Melbourne city councilman, and Lee Feldman, Palm Bay city manager, in a trip to China at the invitation of the Tangshan City municipal government. We attended a forum on sustainable development.

Tangshan, with a metropolitan area population of about seven million, is roughly 100 miles southeast of Beijing. The city's darkest hour came when it was the epicenter of a 7.8 magnitude earthquake in July 1976 that leveled much of the area, killing more than 250,000 residents. Much of the city was rebuilt since then and that construction expertise is again being pressed into service, this time for a new development.

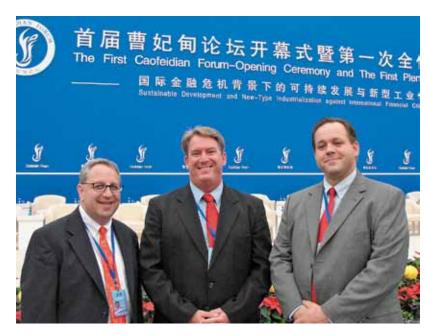
In 2005, the Chinese central government authorized the development of a new industrial and residential area to be built with comprehensive environmental sustainability best practices in mind.

The project, called the Caofeidian New Area, covers more than 125 square kilometers (48 square miles), much of it raised from the Bohai Sea as part of a massive land reclamation project. The early phases of the project will complete the land reclamation, create the industrial areas and build a new neighboring city. This city will soon be home to about 300,000 industrial workers and their families. This phase will cost \$28 billion, with half this amount already expended.

Ultimately, the city, master planned by the Swedish planning firm Sweco, is planned for one million residents. They will enjoy the first "live, work, play" city built from scratch in China's Middle Kingdom.

The Caofeidian Forum was a first-time effort by the Tangshan government and the first government-sponsored forum on sustainability in China. It was developed, in part, to "show off" the New Area's progress to domestic and international guests and to bring together an impressive array of international expert speakers to make the case for sustainable development.

John, Lee and I were joined by a half dozen other mayors and deputies from the United States, and



From left, Lee Feldman, John Thomas and Milo Zonka at the sustainability forum in Tangshan City.

by representatives from the United Kingdom, Australia and several African nations.

Most importantly, we could see how urgent the need is for a major policy shift in China's environmental practices. Air pollution is omnipresent, not only in the cities but across the entire region we observed. Stormwater management is nonexistent; an oil field collocated with a fish farming operation was a common sight.

But the promise of the Caofeidian New Area gives hope, not only to the Chinese, but to urban planners around the world. Its massive scale, absence of private land ownership and the ability of planners and developers to mold their vision in the dirt exactly as it appears on paper is unique. The ambitious goals include a 99.5% recycling rate for solid wastes and 97.5% for water. This while becoming the largest steel production base in China by 2010.

The success of Caofeidian would give urban planners and local governments around the world a living "sustainable laboratory." This could be an example as public and private interests consider their future growth and resulting environmental impacts.

Milo Zonka '95 president of his own financial strategies firm In 2005, the Chinese central government authorized the development of a new industrial and residential area to be built with comprehensive environmental sustainability best practices in mind.

Alumni News

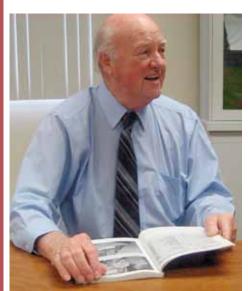
David Latham: Founding Buddy

In the late 50s, one of the first people **Jerry Keuper** called when he pondered founding our college was his long-time college buddy, **David Latham**. Latham told him frankly what he thought of the idea, "Jerry, Jesuits start colleges—not you."

Latham and his wife, Nancy, had become friends with Jerry and Natalie Keuper when the men attended the University of Virginia (U.Va.) and the couples lived in the same apartment building. Latham, a native of South Africa, first moved to Canada to complete degree requirements in mining geology at McGill University in Montreal, Quebec, then moved to the United States to attend law school at UVa

Keuper and Latham were to remain close friends throughout their lives, always there to support each other.

"When Jerry and I were both seniors," reminisced Latham, "and Jerry needed circuit diagrams, I would draw them for him. I also drew them for his Ph.D. thesis. I think I may be the only lawyer published in a physical science journal."



David Latham

After graduation, the men kept in touch when Keuper moved to Connecticut to work at Remington Arms and Latham moved to join a law firm in New York City. Their friendship did not diminish when Keuper moved to Florida to accept a position at RCA.

Although Keuper ignored Latham's advice about establishing a college, Latham agreed to become the fledgling college's first vice president and treasurer (on a part-time basis). One problem existed, however, said Latham, "I didn't like the commute." To solve the problem, he scanned the want ads in his newspaper, spotting a job as assistant corporate council at Minute Maid Orange Juice in Orlando. He got the job and moved to Orlando.

What sort of responsibilities did the college's part-time vice president and treasurer have at the new college? "Well, aside from the panic over payrolls, serving on the board of directors and developing financial reports with entries like the \$160 proceeds from the cotillion, the college's first fundraiser," said Latham, "there was the fountain.

"There was a fountain in front of the old library that Jerry and I designed. Whenever I visited, we spent most of our time working on the fountain. It never worked. It seemed to work, but if you left it alone, the water would either go flying in the air or go down to nothing. We never could figure out how to control it.

"Then, when the first classroom building was about half built, who was parking where became an issue. I designed a parking system, and Jerry and I got paint brushes and painted the parking stripes.

"When we became Florida Institute of Technology, I designed the college seal. I cut out a little world from the cover of a National Geographic magazine, drew a line going around it for a satellite and made a circle around it for the name of the college. Then I took it to the Minute Maid printing shop and sent it on to Jerry."

Latham remained on the Florida Tech board of directors as long as Keuper was president of the college, and they shared many memories. Twenty-seven years ago Latham married Doris, and the longtime friendship continued until the Keupers

"He was very definitely my best friend," said Latham.

Joan Bixby

Alumni Win Homecoming Awards

Some alumni who came to Homecoming 2009 left with awards. These include **Patrick Kennedy** '87 M.B.A., who took home the Outstanding Humanitarian award. Among his many acts of humanitarianism, Kennedy founded Melbourne's Shepherd Center for Seniors, which today serves more than 1,000 local residents.

Daniel Williams '90 M.B.A., '95 Ph.D. earned the award for Outstanding Achievement for his reputation as chief engineer at TRW Commercial Steering Systems. Williams' leadership of research and development project teams has created improved suspension systems for automobiles.

At the George M. Skurla Award Luncheon, **Jill Marie Demko** '99 was named the 2009 Skurla Award recipient. A National Transportation Safety Board air safety investigator for the past 10 years, she has completed more than 350 accident and incident investigations and has recommended numerous safety changes in the aviation industry. She was also awarded the Embry-Riddle Aeronautical University Andrews Air Force Base Campus 2009 Faculty Member of the Year Award by her current employer. Also at the luncheon, **Tom Utley**, associate professor of aeronautics, was selected to receive the annual James Constantine Faculty Excellence Award.

In addition, **John Valente** '76, chairman of the alumni association board's 50th anniversary committee; **Russ Ballagh** '74, president of the alumni association board; and President **Anthony Catanese** received 50th anniversary awards for excellence in carrying out their responsibilities for the 50th celebration.

Finally, **Bob Taylor**, head of the department of humanities and communications, and **Amanda Burns**, Olin Studio director, were honored by the board for their three years of dedication to the Pioneer Video Project. Through their efforts, 34 Florida Tech pioneers have been recorded for posterity.

See pages 20–23 for more Homecoming coverage.

Ball Is 2009 Aviation Professional of the Year

Robert M. Ball '74, air commerce, joined the Lee County Port Authority in August 1993 as deputy executive director. He rose to executive director three years later, a position that has enabled him to leave his mark on the history of Florida airports.

Ball's work on the expansion of Southwest Florida International Airport resulted in a regional economic impact of more than \$3.6 million. He developed international air service, increased passenger traffic to more than three million annually and moved the airport to a new \$438 million terminal. The Page Field General Aviation Airport, also under his purview, also advanced.

In 1998 Ball was named Airport Manager of the Year for the Southern Region by the Federal Aviation Administration. That year the Florida Department of Transportation (FDOT) honored him as Aviation Professional of the Year. In 1999, the year he received the College of Aeronautics George M. Skurla Outstanding Alumni Award, he was also honored by *Gulfshore Life* magazine as one of its Men of the Year.

In 2003 the Florida Tech Alumni Board recognized Ball's significant contribution to his field with the Outstanding Achievement Award. The FDOT once again selected him as Aviation Professional of the Year in 2009, the only time they have honored an airport professional a second time.

"I'm extremely impressed with the quality of my education from this institution," said Ball. "It has certainly paid off for me in the aviation industry. I am also proud that my eldest son got an aerospace engineering degree from F.I.T. and is training to fly F-15 fighters for the United States Air Force."



Robert M. Ball '74

Ball both led and served on the board of the Florida Airports Council and was appointed to represent the Council on the Florida Strategic Intermodal System Leadership Committee. He also is a past chairman of the Statewide Florida Airport System Planning Committee and a founding member of two statewide initiatives: the Florida Aviation and Aerospace Alliance and the Commission on the Future of Aeronautics and Space in Florida.

Joan Bixby

Alumni Profile

Call For Entries

Each year, the Joan Bixby Award recognizes a Florida Tech student, staff and faculty member (male or female) who enhances the climate for women's participation and development at Florida Tech.

They are chosen through nominations by people like you.

Is there a faculty or staff member you would like to nominate? Think of someone who has rallied female students in some way, provided advancement opportunities to women or recognized and illuminated women's accomplishments.

If you can think of someone who qualifies, please use the nomination form posted at www.fit.edu/alumni/womens_history. This site also provides a history of the Joan Bixby Award.

Any questions? Contact Marjorie Beckett at mbeckett@fit.edu.







Homecoming 2009—More than Meets the Eye—has come and gone, leaving some fine memories in its wake. Alumni who arrived from far and wide included Eugene Julies '88 who came from South Africa.

- 1 Incoming Alumni Board President Alan Prestwood '73, '80, left, congratulates outgoing President Russ Ballagh '74. Ballagh earned a 50th Anniversary Award.
- 2 Ken Droscher, associate vice president for advancement and executive director of the alumni association, thanks John Valente '76, '81 M.S. for his work as chairman of the 50th anniversary committee.
- 3 Patrick Kennedy '87 M.B.A.—Outstanding Humanitarian
- 4 Olin Studio Director Amanda Burns and head of the department of humanities and communication Bob Taylor receive awards at the banquet for their three-year commitment to the Pioneer Video Project.
- 5 Alumni board member Michael Gordon '94, '00 M.B.A., at left, congratulates Dan Williams '90 M.B.A., '95



President Catanese, left, presents Hugh "Hamp" Wilson '74 with a copy of Derek Gores' awardwinning 50th anniversary mixed media creation.





and Trustee Phil Farmer join in the Homecoming Golf Classic.

From left: Chris Campbell '72, Pam Valente, John Valente '76, '81 M.S. and Jim Thomas '72.





Uncommon Threads: English Embroidery

Featuring Melinda Watt, Metropolitan Museum of Art

THURSDAY, FEBRUARY 18

"The Biblical 'It' Girls: Female Heroines in English Embroidery"

Free Admission, 7 p.m.

Gleason Performing Arts Center Florida Tech Campus

FRIDAY, FEBRUARY 19

10:30 a.m. Lecture 11:30 a.m. Reception Noon Luncheon

Pamela Dettmer, Honorary Chair

\$60 per person

(Proceeds to benefit Ruth Funk Center for Textile Arts at Florida Tech)

Hartley Room, Homer Denius Student Center

Florida Tech Campus

Call (321) 674-8313 or visit http://textiles.fit.edu for more information.



Detail, Musical Garden Party: English; c. 1650–1675; Embroidered, Silk on canvas; Overall; 13 ¾ x 21 ¼ in. (34.9 x 54 cm); The Metropolitan Museum of Art; Gift of Irwin Untermeyer, 1964 (64.101.1314) Image © The Metropolitan Museum of Art

SC-746-1109



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For more information about Botanical Fest, visit: www.facilities.fit.edu/botanical_garden_fest.php
For more information about the Botanical Garden, visit: www.facilities.fit.edu/botanical_garden.php

EX-730-1109

Exploring the Boundaries of the Solar System—Are We There Yet?

Gaining understanding of the origin and evolution of the solar system has been a primary scientific goal of planetary missions. So far, explorers and spacecraft have sampled material within the solar system, where most of the observed particles originated from our sun and have been modified, energetically and dynamically, by the sun's magnetic influences. For the first time, both frontier probes, *Voyagers 1* and 2, are near the edge of the solar system. At the same time, a new spacecraft, the Interstellar Boundary Explorer (IBEX), is mapping remotely the boundaries of our local space neighborhood. Now, scientists are tuning in for the exciting stories from the edge of our solar system.

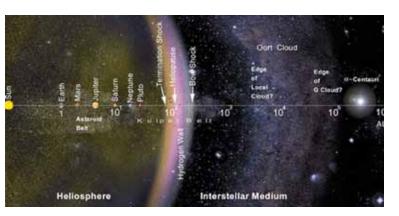
These are moments of drama and discovery for physics and space sciences professors **Ming Zhang** and **Hamid K. Rassoul**. Both have worked extensively on the *Voyagers*' particle and field observations within the solar system in the past and waited patiently for decades to study its outer boundaries' plasma environment.

According to NASA, *Voyagers 1* and 2 were both launched in 1977. *Voyager 1* encountered Jupiter in 1979 and Saturn in 1980. *Voyager 2* reached Jupiter in 1979, Saturn in 1981, Uranus in 1986 and Neptune in 1989. After reaching their original destinations, and with no way to stop or return to Earth, *Voyagers 1* and 2 simply kept going. This new leg of the journey is called the Voyager Interstellar Mission.

"After nearly three decades touring outer planets, the twin *Voyager* spacecraft have both crossed the 'termination shock,' (in 2004 and 2007), where the solar wind, a tenuous hot, ionized gas from the sun, slows down abruptly," Zhang said. "The *Voyagers*, now at roughly 100 times the distance from the sun to the Earth, or roughly 10 billion miles away, are exploring the solar system's final frontier, the 'heliosheath,' a vast turbulent expanse where the sun's influence ends and the solar wind crashes into thin gas between stars called 'interstellar medium.""

To further understand the heliosheath, NASA launched IBEX in October 2008, a small satellite orbiting the Earth at about 200,000 miles above the planet. It will observe the heliosheath remotely with its special telescopes, which collect particles rather than light. These particles, called energetic neutral atoms (ENA), are produced in the interaction between the solar wind and interstellar gas inside the heliosheath and travel in almost straight lines toward the Earth. On Oct. 15, 2009, NASA released the first IBEX heliospheric results and sky maps to the scientific community—and a public audience— for the first time.

"The global images observed by the ENA telescopes on IBEX are providing unique information about the properties of the heliosheath where the single-point *Voyagers*' observations couldn't see," Rassoul said. "Understanding the ENA measurements from IBEX depends on our knowledge of particle acceleration or heating by the termination shock. Florida Tech's theoretical modeling of various particle acceleration mechanisms in the energy range







Ming Zhang

Hamid Rassoul

covered by IBEX are making an indispensible contribution to the IBEX mission to achieve its major goals: understanding the acceleration of particles by the termination shock, global structure of the heliosphere and plasma flow at the boundary."

"IBEX has provided us with global maps of the interstellar interactions," Zhang added. "These are highly complementary to, and synergistic with, the detailed single direction measurements provided by the Voyager satellites. The new results were completely surprising. We certainly need more time to discern what these pictures are telling us."

All communications with *Voyagers 1* and 2 are done through the NASA Deep Space Network (DSN). This is an international network of antennas that supports interplanetary spacecraft missions and radio and astronomy observations for the exploration of the solar system and the universe.

"We hope *Voyagers 1* and 2 stay healthy and talkative as they continue on their outward journeys beyond the outer boundaries of the heliopause and the bow shock," Zhang said. "If they do, it would be the first time that we can sample particles and fields of a medium beyond the local 'walls' of the solar system. With help from the NASA Deep Space Network (DSN), we keep listening as long as they keep talking."

Iennifer Nessmith



"We were able to convince our professor to let us out a little bit early that day," she recalls. "As we left the lecture hall, rushing over to the Crawford Building, I noticed that other classes had the same idea we did. Everyone ran the stairs to the top floor balcony just in time to see the shuttle rise above the horizon." Watching a shuttle launch from campus has been a defining Florida Tech experience for many Panthers, which makes its imminent retirement particularly poignant. Yet, the perspective shared by some closest to the transition is more glee than gloom.

"It's exciting to think about the different types of exploration and science that will be possible with a new vehicle," says Slovey, who works in the Mission Control Center at Johnson Space Center.

She is a member of the MMACS group (Mechanical, Maintenance, Arm and Crew Systems), which is responsible for all the mechanical elements of the space shuttle, including landing gear, hydraulic system, auxiliary power units, payload bay doors, docking system and the overall structure of the vehicle.

"Essentially our job is to keep the vehicle healthy to ensure the astronauts return home safely," she explains.

While Slovey's current duties focus on shuttle missions, her work has already begun to transition as part of the Constellation program. Her team is providing operational input for the new vehicle design, including designing crew displays, deciding what telemetry should be monitored by mission control, developing mission timelines and eventually writing documentation at the conclusion of the design phase.

Ultimately, Slovey sees the transition as an opportunity to spark interest in science, technology, engineering and mathematics (STEM) disciplines.

THE END OF AN ERA

"There is an entire generation who work in the science and engineering industry because of the excitement that was invoked by the Apollo moon landings," Slovey says.

"The new adventures that will be possible with a new vehicle, I can only hope, will encourage today's youth to get involved in science and engineering, and one day inspire an entirely different generation to do the impossible."

Sam Durrance, professor of physics and space sciences and former astronaut, sees that enthusiasm building on campus now.

In October, the physics and space sciences department held a breakfast and group viewing of NASA's controlled rocket crash into the moon via NASA TV. The overwhelming turnout required a larger room than expected and still the event was standing room only.

Durrance also sees the opportunity for Florida Tech to take a leadership role in advancing STEM-related education, including studies at the Space Life Sciences Lab at Kennedy Space Center and partnerships with Starfighters Inc. to conduct research projects aboard their F-104 high-performance jet.

Helping students get the connections and experience they need is central to the Florida Tech mission.

For **Ken Revay** '82, it ended up defining his career. As a Florida Tech student, he was president of the student chapter of the American Society of Mechanical Engineers and credits several professional and professor mentors with jumpstarting his success.

Revay began working at Kennedy Space Center immediately after graduation, and today he is manager of hypergolic systems on the space shuttle—a job that will carry over to the new vehicle.

"We'll still have hypergolic systems on the new generation vehicle," says Revay, "especially the Orion crew and service modules."







Ken Revay '82

"I know we need to progress and move forward, but I also think the shuttle has done a fantastic job over the years. It's a great vehicle. I can see it continuing to fly.

I'd like to see it fly at least until 2015, if not to 2020."

Yet Revay is reluctant to see the shuttle go.

Durrance, on the other hand, believes the time is right for retiring the aging shuttles.

"In order to continue flying it, we would just accept a level of risk that I think is not good for us to accept," he says. "Personally, I think the only way to quantify the risk is to just look at the number of flights versus the number of failures. In which case, it's a fairly risky system to fly." Though he admits,

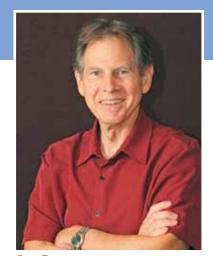
"I would fly in it again in a minute. It's just been an amazing system and being able to fly on it, be a part of that, you realize just exactly how phenomenal it is."

What he does find unfortunate is that there was not greater emphasis on getting the new vehicle ready earlier.

A Waning Workforce

"It requires somewhere on the order of one million individual procedures to get [a shuttle] ready to go from landing to launch," says Durrance. "It's hard to conceive of, but you know there are thousands of people who work on it."

That volume of job loss is something that makes the pending retirement particularly hard to accept.



Sam Durrance



Annie Becker



Winston Scott

With an estimated 7,000 jobs at stake, Florida Tech has partnered with Brevard Workforce to offer business training to qualified aerospace workers through the Nathan M. Bisk College of Business Entrepreneurial Training Services program.

The program takes a cohort of participants from introductory workshops, through concrete business skills training and on to formal business plan presentation and review.

"There are some transitioning workers who are truly inspired," says **Annie Becker**, principal investigator and facilitator of the ETS program.

"They may not launch their business tomorrow, but they're on this path and their passion is coming through. To me, that's the inspiration of this all."

The End of an Era

Ultimately the future looks promising. The Ares I-X enjoyed a successful test flight on Oct. 28, 2009. Still, most can't help but feel a sense of melancholy at the twilight of a brilliant piece of American ingenuity—a vehicle that represented so much more than space exploration.

"I have to admit that I am a bit sad that the shuttle is retiring," says Slovey. "The shuttle is such an amazing piece of technology. It is so complex that sometimes it's hard to fathom how creative the engineers must have been to create such a design."

Durrance concurs, "It's kind of uplifting to think we could build something that amazing. It was way ahead of its time."

Winston Scott, dean of the College of Aeronautics and another former astronaut in the Florida Tech family, feels equally sentimental.

"I have mixed feelings about retiring the space shuttles," he says.

"They are indeed old and need to be replaced. They do, however, represent an era in the timeline of American space flight and those of us who flew them will feel a sadness when the final shuttle lands from the final shuttle mission."

As the future unfolds, Florida Tech will continue our long tradition of exceptional education and space partnerships—maintaining our identity as the university founded by rocket scientists.

Christena Callahan

"FLORIDA TECH HAS BEEN REACHING FOR THE STARS SINCE OUR EARLY DAYS AS THE PROVERBIAL NIGHT SCHOOL FOR MISSILE MEN, HAND-IN-HAND WITH THE U.S. SPACE PROGRAM. AS THE MEDIUM OF SPACE EXPLORATION EVOLVES, SO TOO WILL FLORIDA TECH IN PREPARING THE NEXT GENERATION OF SCIENTISTS, ENGINEERS AND BUSINESS EXECUTIVES TO LEAD THE WAY."

FLORIDA TECH PRESIDENT ANTHONY J. CATANESE



"Once the Shuttle is retired,
there will be a gap in America's
capability to launch humans into
space. That gap will extend until
the next U.S. human-rated launch
system becomes available. The
Committee estimates that, under
the current plan, this gap will be at
least seven years long. There has
not been this long a gap in U.S.
human launch capability since the
U.S. human space program began."

—Summary Report of the Human Space Flight Plans Committee

LINDSAY GREENE: STUDENT SHOOTS FOR SPACE PROGRAM

Since elementary school, Greene's goal has been to become a NASA astronaut. That goal has now wavered slightly. Because of motion sickness she has moved into engineering and hopes to play an active role in the U.S. space program. Her concern now is that through loss of federal funding, NASA will be forced to suspend ground operations.

women's basketball team, shoots high,

whether it's toward a career or at the hoop.

Greene, who has already had two internships at NASA's Marshall Space Flight Center (MSFC), says, "NASA will always be my ultimate career goal."

She grew up in North Carolina building model rockets and staring at the stars with her family. Thanks to her dedication to science and math through high school, she has realized her goals. In 2008, during her sophomore year at Florida Tech, she was accepted for her first internship in the NASA Undergraduate Student Research Program.

Greene took this opportunity not only to learn about and perform mechanical testing and analysis, but also to network and create a niche for herself among the aerospace community. This helped Greene earn a second internship in 2009 where she worked with shuttle propulsion elements through the MSFC Resident Management Office at Kennedy Space Center (KSC). She has seen her work in motion as two NASA rocket launches thrust through the sky on boosters that she had worked on.

"Seeing the impact of my project was the most rewarding thing I have ever done," she says. Greene also glimpsed the next generation flight vehicle created through the Constellation Program, which is one of the options evaluated by the Human Space Flight Committee.

Greene chose Florida Tech for several reasons. The strong tie to NASA was the number one attraction. Being taught by former NASA engineers and listing these professors on her résumé also excited Greene. As she realized she needed to put her full concentration on her studies, Florida Tech was a natural choice. The university has a noted engineering program and offers Division II sports, requiring work, of course, but not quite as much as Division I. Greene plays basketball in her free time with friends from NASA/MSFC that understand her, she says, when she "speaks rocket."

Sharing her enthusiasm with everyone she meets, Greene goes home and visits schools to talk about her NASA experience. She also shares her concern for the future of the space program. "The only reason," she says, "that the space program is losing funding is due to a lack of recognition and marketing to the general public. The average American doesn't realize the benefits of medical and technological experimentation that goes on in space. For example, microwave technology, Velcro, duct tape and countless medical breakthroughs have all come from NASA."

Greene says she's confident that the U.S. national pride instilled by our space program will be regained. She cautions, however, that suspension of the active space program will contribute to loss of leadership and innovation in the United States.

Today NASA considers other options for its future, such as partnering with commercial space flight. These partners would be private companies that are funded to build manned space vehicles, such as Space X. NASA could contract with these companies to send astronauts into low Earth orbit, specifically to the International Space Station.

There are benefits, Greene agrees, to having multiple U.S. companies that can launch into space. "This would stimulate competition in space flight and lower the costs of launching and materials."

As the current space program winds down, she believes that the excitement for manned space flight must continue. Educating children about the potential of space travel, she emphasizes, could be a goal of engineers that are leaving NASA programs.

"If we give up on a 60-year-long project that has finally become pivotal, what else will we give up as American people? Don't we want a cure for cancer, AIDS, osteoporosis and other diseases? Since these cures have not been found here on Earth, maybe they can be found in space," Greene says. "The world doesn't go around because a space shuttle goes up," Green cautions, "but everything is about balance."

Windy Thomas, undergraduate business major



THAT OLD RUSTY FENCE:

Looking Back To Move Forward With Human Space Exploration

For any given space shuttle mission, the most memorable moment for the general public is launch. The anticipation as the clocks count down. The seemingly cryptic calls from the firing room describing the launch sequence. The hissing and popping as valves are opened and closed. With time running out just a few seconds before T-0, the thunderous roar of the main engines is heard. A few seconds later, two blindingly bright fiery pillars of smoke and sheer earth-shaking power are ignited. A symphony of controlled explosions and rapidly expelled gases are guiding a space shuttle orbiter toward the heavens on yet another voyage.

It is this sense of romanticism that truly underlies the passion of those who work at the Kennedy Space Center. To us, the orbiters are not mere machines but are often regarded as family. We care for them like we would a sister. There is a shared joy when they perform as expected. When something is amiss, we empathize with them. If a system goes awry, we worry with bated breath until we know everything is alright.

When they finally return home, we can relax and enjoy the company of our companions once again. You would be hard pressed to find another industry with such strong personal connections

It's no secret the shuttle era is coming to an end. When exactly that end will be is still a matter of political debate, but we all realize that it will be within the span of our careers. While the job losses, skill retention, asset reassignment and which museum gets which orbiter has been discussed at length, the psychological toll on those who have dedicated their lives to these beautiful beasts seems to have been largely ignored. Many take comfort in the fact that they can walk into the orbiter processing facilities and put their hands on the birds, to feel that connection to the cosmos, but what happens when they are behind bars and glass at the Smithsonian?

I have had many discussions about this topic with my fellow employees. One woman, who had been with the program for nearly 20 years, told me that she saw *Discovery* like a child that is heading off to college. They may be further away and out of



Calvin Turzillo

arms reach, but you will have always been, and still will be, a part of their lives. When I asked an older gentleman near retirement what he thought, he said that retiring the orbiters was like losing a child. It's like extinguishing the flame before it ever really had a chance to burn.

For me, I see the orbiters like grandparents. I grew up with them by my side, teaching me the lessons of the past and inspiring me to be the person I am today. Now that I have finally

reached a point of maturity where I truly understand them, and can appreciate my time with them, I have to accept the reality that they are no longer in their prime. It is a feeling of deep respect for what they have accomplished, coupled with a feeling of loss that I didn't get to experience more. Childhood fantasies of working with the "space planes" seemingly dashed all too early.

Despite these dire feelings, there is also a great sense of hope in the ranks of the rocket scientists. A passion once thought dead has been reignited to fill the void that is being left. The ideals of a generation past are working their way back into the hearts and minds of those who replaced them. While the space shuttles have brought us the thrill of discovery, it is the Ares system that will fan the flames of exploration once again. To push our boundaries of what is possible. To go further than we ever have before. To truly be a spacefaring race.

Not even a week ago (at the time of this writing), we successfully launched the first test flight of the Constellation program, the Ares I-X. The detraction

tors said it couldn't be done, that the United States space program lacked the skills and knowhow to develop and fly a new system successfully. Boy, did we ever show them! It had been nearly 30 years since a new system had flown from the Kennedy Space Center, and the excitement of that day will be with me forever. It was an honor to have been just a small part of it.

I had the unique privilege to spend the launch day with Apollo astronauts, space shuttle astronauts and Saturn engineers. As the seconds ticked down on the clock, they all chatted among themselves, sharing stories of launches past. The Apollo astronauts passing tips onto shuttle, and future Orion, crew members. The Saturn engineers answering the plethora of questions from the Ares engineers. It was definitely a sight to see the different generations so enthusiastically interacting.

I spent a majority of my afternoon talking to one of the Apollo engineers who was around for the transition to the space shuttle. We got on to the topic about the public and political criticism of the Ares

program, and the constant doom and gloom mentality of the media. He passed on a great bit of advice to me. Don't bother dwelling on the naysayers, they were just as prominent, if not more so, back in the day. Do the best job you can, and make them eat their words when we do what they said was impossible. That is our job after all, isn't it? We're not called rocket scientists because it's easy! In 30 years time, history won't remember their negativity anyway, only the great things we achieved.

With that, I look forward to the future, whatever it may hold. It will be a bumpy road to get there. Old friends will be leaving, while new ones fill the void left behind. There is a lot of work to be done, and undoubtedly there will be tears shed along the way, but that is all part of the necessity of change. I just hope that one day I get to stand along that rusted fence, watching the clock hit zero, sharing a laugh and a tear with future generations as we watch the next great leap in space exploration take flight.

Per Aspera Ad Astra

Calvin Turzillo





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David A. Finley

Diane E. Flyer

Michael E. Gill

Steven S. Griffiths

William G. Harris

Robert W. Herbig

David N. Edwards Jr.

Elizabeth M. Gibson

(RET)

1987

Jonathan B. Zung, Ph.D.

Denis P. Bilodeau, USA

Daniel J. Carreira Sr., Ph.D.

Eleanor A. Garraway-Phillips

1988

David J. Hernandez

Rose Ann Jones

Janice M. Krogh

Paula Macomber

Roger B. Marcil

Richard T. Marks

Farzana A. McRae

Ieffrey D. Nelson

James R. Page

Brett Patterson

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Robert T. Rowe

Daniel B. Rudin

Jeffrey M. Schiff

Margo T. Singer

C. Todd Smith

Laurie H. Smith

Kelly B. Thomas

Jacobus H. Valk

Frank D. Walker

Stephen Wallace

Yue-Eng Wang

Jieh-Wan Wang

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Laurie B. Statmore-Smirl

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Audrey D. Myers-Bernstein

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Shao-Kang Tan Jonathan P. Tate Ian E. Treise Carol A. Venice Shelba S. Wetheral Ajith N. Wickramasuriya Shelbe S. Zimmerman

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Thomas E. Barthel

Robert L. Blanchard

Angus W. Campbell

Roger D. Appel

Kevin T. Connelly, USA James E. Constable Eileen P. Corelli Bruce R. Crain Daniel T. Crane Jeffrey J. Cyr Paulo A. L. Dasilva Denise M. Devito Lilani I. Ellis James S. Fallon, USN Thomas J. Folliard Richard E. Freeman John P. Gagliardo Pearlene S. Gardberg-DeLuca, Psy.D. Forest D. Gilder Patricia B. Gillen Jane C. Gleason Debra W. Gould Jack G. Gulden Douglas E. Hahn Douglas R. Healey Brvan C. Hehn Joseph L. Ilk, USNR, CPA Scott D. Kerr Douglas C. Klemm, USMC Joseph J. Lavorgna Milton K. Lewis Elizabeth B. Lindsev Timothy W. Ling, PE Davind T. Maharaj Roy D. Malac Louis M. Mamo Leslie V. McSoley Eric D. Meigs Donald A. Messer Patricia G. Miller-Dell Thomas J. Mira Douglas W. Mordaunt Valerie A. Morgan Pamela J. Nabors

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Debra S. Blenis

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Yunfeng Yin, Ph.D.

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Kyle P. Cacciatore

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1994

Elizabeth M. Youngs

Lawrence J. Abdullah

Ramona J. Birmingham

Charles E. Bouk, USAF

Enrica K. Singleton, Ph.D.

Sean P. Quinn

John J. Myers

George M. Lucas, RN

Maurice P. Dobbins

1993 Michael J. Adcock

Rafael A. Andrade

Stephen E. Anstey

John Antoon II Sharon P. Yalowitz Michael M. Baldomir Charles P. Bennardo Bridget R. Berardinelli Charles S. Andrews Annette M. Bernard Carolyn V. Banev Erin M. Bland Douglas J. Bayley, USAF Iill E. Brown George M. Boger Helene S. Brown James E. Brethauer Reginald V. Campos Lisa E. Chan Linda Castle Teri G. Chaves Jose S. Chaves Shien-Chung Chiao Scott A. Clary Robert V. Damato James J. Conomea Jr. Daniel A. Delaurentis

1992

Douglas J. DiCarlo Karim J. Courey Kevin J. Cunnion Karen D. Duerbeck Thomas J. Czarniak Martha T. Elmali Charles L. Farris Thomas A. Dean Richard C. Doerer Michael L. Gordon John W. Edwards Jr. Janice M. Hagan Timothy P. Evans John A. Irvine Kurt J. Kwitzky Susan L. Farnsworth Mark A. Fauls, Ph.D. Sullie LeFrancois Alan D. Fredericks Sophia Y. Lim Robert T. Gunning Jr. Stephen M. Mango David L. Hansen Thomas F. McAllister Beverly C. Hartgrove Eric M. McKinley Robert F. Hasling Jr., USAF Robert L. Owens (RET) Stephen D. Pauly Connie R. Hav Ronald A. Roff John R. Hay Marcia B. Samuels, Psv.D. Shea S. Shannon John R. Heisley Catherine M. Houlahan Thomas R. Stautz, USA Mitchell D. Huskey David E. Stickler Clement R. Surak Fletcher S. Johnston Vikram Kapila Lisa C. Turocy Christine A. Keenan David C. Uncur Sushil N. Keswani

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1996

Chelsi R. Cacciatore Jeffrey M. Capelli Deborah S. Carstens, Ph.D. Paul H. Conner Todd A. Crane Christian Y. Drouet d'Aubigny Svlvia E. Edwards Jeffrey T. Faino Robert E. Feury Jr. Cindy J. Gaffney

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Ralph L. Westphal

John J. Yurick III

Kate Yurick

Shisheng Zhao

Christopher J. Wilson

Eric R. Bain Ir. Kevin Barry Melissa L. Booth James L. Booth, USA John H. Cain, Ph.D. Kenneth I. Carter, USA Judith B. Connelly, Psy.D. Rebecca D. Dohn Matthew B. Dumler Brian M. Fischer Jeanette J. Friedland Brent M. Goode Jennifer M. Goslin Sergio A. Hernandez Gregory P. Herold Barbara L. Higgins Stephen D. Kemblowski Fanghua Lin

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Cynthia Valdes

Angelena N. Vitter Rodnev B. Bowers Heather L. Williams Rosanne A. Cattanach Scott G. Chase 2000 Russell E. Deatherage David I. Atkinson Anne M. DePaul-Haddock Amy E. Atkinson Kevin M. Ellis Michael G. Bailey, Ph.D. Lauren E. Ewing Jeanne A. Dobos Tiffany E. Frey Holtzman Melanie L. Gange William L. Geiger Harry L. Garton Melinda A. Gresham Theresa B. Harney Brian D. Hoerning Ryan P. Jackson Marc A. Josselson Sasan A. Kermani, Ph.D. Matthew C. Livingston John-Paul S. D. Manhertz Mark D. Luker Neville G. Maycock Jr. Terry W. Meier Cecelia M. Miles Daniel S. Nicholson

Suzette S. Mosley Christy L. Owens Joy B. Patterson James C. Risner Stephanie A. Shankles Brandon S. Smith David A. Smith Gena A. Tiedeman Patricia M. Vernon-Rusher Jianyu Wu

2001 Slavde S. Barnes Rachel I. Beckett Richard W. Botsford Anita C. Carnegie David S. Carus Wevni A. Clacken Dirk Fieberg Sara B. Fieberg Christie M. Fowler Marc E. Gange Henry L. Hayes Jr. Clark A. Huffman Carlene R. Jackson Margaret S. Jenkins George D. Kennett Shana L. Langer David B. Locuson William C. Manley Iean-Marc Mensah Suzanne M. Mills Julie L. Parker Beverly K. Penaranda Vladimir Popovic John D. Quinlivan Sarah E. Rasmussen Eva R. Roche Kevin J. Rodriguez Daniel P. Sandlin

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Trent M. Smith

Ursula V. Strahm

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Adam C. Thorstad

Feng Yang, Ph.D.

Carol G. Batte

Ellen J. Bennert

Charles W. Borders

2002

2004

Lucille B. Albert Jason A. Black Chandra M. Brooks Amber R. Chang James R. Cicardo Dwayne R. Codrington Jacqueline M. Courtney Erin G. D'Acunto Stuart C. Fields Ronald M. Gordon Marlene A. Graseck Christopher R. Han Gregory J. Harrigan Evre Mischka A. Hylton-Maxwell Linda J. Madigan Benedict M. Miller John J. Nagle Kathryn J. Pichan Holly M. Rauscher

Douglas C. Rauscher Ryan S. Regensburger Jesse L. Rostveit Leighton S. Rowe Greggory K. Tyree Gary J. Valcana

2005 Christopher J. Carhuff

Michelle J. Verkooy

Christine M. Nowak Lloyd H. Davis IV Sheila D. Davis Heriberto J. Delgado Brian T. Fisher Krystal C. Forgenie Zachary B. Gabe Jennifer L. Altomare

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Christopher C. Foshay

Paul J. Eggers

Harold Fields

Lynn A. Gourley

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Joshua C. Horst

Emanuel Huggins

Clifford Jackson

Astrid C. Lahiere

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Robert G. Szrama

Melissa E. Tribou

Fedelina D. Urbano

Cederick C. White

Kevin W. Stead

Jose Y. Jimenez

Charles T. Hutcherson

Sanjoy M. Som

2003

Anne Riquier

Elizabeth A. Haupin Hariprasad R. Kantubhukta Gregory A. Koumbis Kelly A. Long Melissa M. Martin George J. Moletz Melissa S. Moreno Ryan M. Plumeau Helayne T. Ray, Ph.D. Timothy T. Ross Patsey C. Sloan James C. Sparks Allison B. Taylor

Marguerite E. Taylor

Richard E. Vanderbilt

Victoria E. Zalewski

Marjorie A. Bishop

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Mark J. Bruyere

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2006 Joan Beck

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Donald M. Patterson

Troy J. Rock Kenneth J. Sartor Cynthia R. Schmitt Daniel R. Talbot

Teresa L. Williford

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Kimberly A. Smith

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Nancy Twombly

Dennis F. Ufnar

Thomas Unrath

Maria Uriondo

Tom L. Urquhart Jr.

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John A. Van Workum

Sharon Van Workum

Mark D. Vanstrum

Garry M. Varnes Jr.

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W. T. Walker

Mary E. Wallis

Abigail Walters

Yue-Eng Wang

Patricia E. Walsh

Robert A. Walters

Nicholas A. Walther

Kevin Vann

Joyce D. Vass

Andrea Verier

Peter Volkert

Mary Votel

Suzanne M. Valencia

Georgia L. Van Ornam

Terry L. Van Volkenburg

Leigh H. Umberger

Iames R. Underwood

Ronald P. Trunzo

Debora K. Tweedie

John H. Trefry, Ph.D.

James L. Trombly III

Susan P. Trefry, Psy.D.

Joseph G. Waters Web Showcase Ellen K. Webbe Frank M. Webbe, Ph.D. Wavne E. Weber Mary C. Wedge Rudolf J. Wehmschulte, Ph.D.

George J. Warren

Johanna L. Waterhouse

James R. Weiss Margaret E. Weiss Amy Wells Coralie Wells Irene Wells Iav R. Wherley David A. White Eli E. White Lee E. White Linda White

Terry Whitnell

Kenneth J. Wiant

Jodee C. Wilfong

Robert C. Wilfong

Avako O. Williams

Elisia K. Williams

John M. Williams

Keith R. Williams

Noreen Williams

George R. Willis

Andrew Wilson

Dave Wilson

Carolyn P. Wilson

Edward W. Windle Ja

Carl A. Winebarger

Jeffrey A. Winget

Ronald R. Winn

Daivd K. Winsten

Gav T. Withers

Terence R. Witt

Debra R. Wolfard

David B. Wood

Theresa A. Wood

Bonnie S. Worthy

Edward S. Wrasmann

Diane Wuebbenhorst

Katherine M. Wynd

Michael Wuebbenhorst

John R. Woods

Larry Wright

M. C. Wright

Jianvu Wu

Terri L. Wright

Marlinda Wyatt

D'Alta Y. Yacoub

Nazieh K. Yacoub

Dale R. Yeager

E Y. Yatesrob-Guyer

John H. Yoepp, Ph.D.

Charlotte M. Young

Denise L. Young

Franklin B. Wolking

Matthew A. Wood, Ph.D.

Jennifer Wolf

John H. Young Jr. Norma Ziegler Terry C. Ziegler Paul Zilka Marijane Zimmerman Beverly Zygmunt

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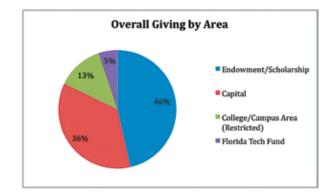
Company, P.A. Indian River Irrigation

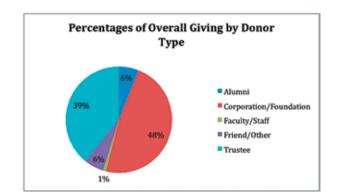
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Web Showcase

Alumni Giving by Decade \$250,000 \$200,000 \$150,000 \$100,000 \$50,000 1960's







In his fifth year at the helm of the Florida Tech women's soccer team, head coach Fidgi Haig has led the Panthers to yet another historic season in 2009.

Thus far, the team has achieved its highest national ranking, No. 14. in the program's seven-year history. At the conclusion of the regular season, the Crimson and Gray finished a program-best second in the Sunshine State Conference. As they prepare to open SSC Tournament play, they hold an impressive 14-2-1 record. Their 14 wins shattered the program's previous single-season win total. Their seven conference victories established a new single-season record as well.

The team's accomplishments do not stop there. They have also set program records in shutouts with 10 and consecutive wins with eight. To top it off, Tech defeated Saint Leo and Tampa for the first time in the program's history.

"Our girls have worked extremely hard to achieve the level we are at today," Haig said. "Going into this season, we knew we were up against our toughest schedule ever. Fortunately, our depth has created a high level of competition among our players. As a result, everyone is giving a great deal of effort and energy every day."

Haig also relates the team's success to the offices and departments that help student-athletes during their time at Florida Tech.

"I believe our success also stems from the work that is completed behind the scenes," Haig said, "Our entire institution has done a terrific job of handling our student-athletes. Dr. (Anthony) Catanese truly cares about athletics and has done a great job of supporting the department in a tough time. Our admissions and financial aid offices, along with our housing and athletic departments, have been great. The professors and teachers have also been very supportive. We recognize the hard work each entity has contributed. When our players step on to the field, they feel a sense of belonging and pride in the institution."

Before the team peaked this season, it was hit with key injuries. Last year's No. 1 goal scorer, Megan Stone, suffered a season-ending injury six games into the year. Key players, Cara Bortz and Mallory Bond, also had their seasons cut short due to injuries. Needless to say, the Panthers have adjusted well. The smooth adjustment can be attributed to the team's senior class: Teresa Brantley, Jennifer Gillette, Brittany Gobish, Mikaela McKenney, Melissa Pyles and Therese Svensson.

The Panthers have also experienced success off the field this season as they have increased awareness and raised money for breast cancer research. When McKenney approached Haig about the possibility of partnering with the Susan G. Komen Central Florida Race for the Cure, Tech's head coach was more than happy to help out any way he could.

Continued on page 58



A four-year starter from Port Orange, Fla., senior goalkeeper Melissa Pyles



Continued from page 57

"Community service is such an extremely important part of our program," he said. "It is a great feeling to give back to others that are not as fortunate. Mikaela's idea to help benefit the Susan G. Komen foundation was terrific. I really hope one of our players will step up next season because it is such a great cause."

The team began to raise money in September at soccer and volleyball matches. On the eve of the breast cancer run/walk, the men's and women's soccer teams deemed their two home contests, "Pink Games," to increase awareness, honor those who have been touched by the disease and support the student-athletes in their fundraising efforts.

Originally, the goal for donations was set at \$1,000. The Panther student-athletes surpassed that mark by raising nearly \$3,000 for Susan G. Komen for the Cure. McKenney, whose family has battled the disease, could not be more pleased with the success she and her teammates had.

"My aunt passed away from breast cancer and my grandmother has defeated it twice," she said. "We have also had some family friends that have battled the disease. I wanted to do my part in the fight and help celebrate their lives. I'm so proud of the awareness and money everyone raised."

On the morning of the 5K race/ walk, Tech student-athletes traveled to the campus of the University of Central Florida for what turned out to



Senior forward Teresa Brantley finished the regular season with a career-high 14 goals and four assists.

be an inspirational event. The morning was filled with touching stories, music, information on breast cancer and a survivor ceremony. During the race/walk, participants had the chance to wear signs in honor of a loved one who may have been affected by the disease. Following the race/walk, a parade of survivors received a standing ovation at Bright House Networks Stadium.

All of the accomplishments the Panthers have earned this season, both on and off the field, make this team a special one. As Haig noted, each team he has coached at Tech has been special in its own way. With the Panthers set to begin postseason play, they will be looking to achieve a few more of their goals in the upcoming weeks.

Ryan Jone



Casey Lademann and the Panthers represented the Athletic Department and the university at the Susan G. Komen Central Florida Race for the Cure in October.



Trané Makes Waves

Leaves her Mark on Panther Cross Country History

Sunshine State Conference Champion: check. NCAA Division II South Region Champion: check. Florida Tech's first ever cross country All-American: check.

When all is said and done, there's not much left to cross off the list for **Sara Trané** of Pixbo, Sweden. The 5-foot-9-inch graduate student has pretty much seen and done it all in her one year of eligibility with the Panthers. Trané transferred to Tech after graduating from Washington State University, where she had already made a name for herself in the Division I running world.

Trané ran cross country and track and field for three years for the Cougars and was a two-time Pac-10 champion in the 3000m steeple chase, among other accomplishments. Upon graduation, Trané transferred to Florida Tech for its industrial/organizational psychology program and, fortunately for head cross country coach **Pete Mazzone**, had one year of NCAA eligibility remaining.

"Sara came to Florida Tech after completing her undergraduate degree in psychology from Washington State with a 3.96 GPA," said Mazzone. "She was a standout track athlete there and ran cross country as a sophomore, junior and senior. She had one year of eligibility remaining in cross country and wanted to get her master's in industrial/organizational psychology and applied to Florida Tech. Sara contacted me on March 15, 2009, about an opportunity at Florida Tech and that is how it started for her and us."

Picking up where she left off at WSU, Trané essentially dominated the SSC during the 2009 season and racked up the accolades in the process. For the first time in Florida Tech history, a Panther runner earned All-American status as Trané finished 18th at the NCAA Division II National Championship meet Nov. 21. She

finished the women's 6k in a time of 21:29.

Earlier in the fall, Trané posted a season-best 6k time of 21:10 at the Sunshine State Conference Championships in October, edging out her closest competitor by 21 seconds. She was subsequently named the league's Female Runner of the Year. Trané additionally blew by the competition at the South Regional meet, taking home the title and earning herself South Region Female Athlete of the Year honors.

All total, Trané won four of the seven races she participated in this season, taking second out of 279 runners at the Walt Disney World Classic 5k and finishing third behind two Division I runners at the University of Florida Mountain Dew Invitational 5k in October, all capped off with her 18th place finish at nationals. She not only competed well individually, but pushed her teammates as well. Florida Tech's women placed third in the region in 2009—the program's highest finish in its history.

"Being able to run has been great because I enjoy it so much," said Trané, "but being able to run at school and experience so much that I wouldn't have had I not come to America for school has been even better. Being on a team is so different than just running on my own.

"This year has definitely been the most fun; I've been more relaxed. The good weather probably has something to do with it," Trané said, smiling. "Every practice has been exciting because they've all been different. I really enjoy running with the guys too. They pushed me even farther. Even though the season is done, I'll probably still run every day and will probably run a lot of 5k's and maybe some half marathons because I've never done that. I also hope I can help the team next year."

All of this comes as no surprise to her coach.

"All individual accomplishments aside, Sara's biggest asset has been her work ethic and how she approaches her training, her race preparation and most importantly the outside factors that come into play with every college student-athlete."

into play with every college student-athlete," Mazzone added. "She has consistently done the little things that endurance athletes have to do to get the most out of their training—that is getting enough rest, eating right and limiting the outside distractions. She is obviously a very talented runner/athlete, but to get to the level of success that she has accomplished, you have to do everything right.

"As a teammate Sara has been an extremely positive influence on the rest of her team—both with her encouraging words and positive outlook, and in being a regular college student with the same life struggles as everyone else. I think that the positive way that she approaches things, and the way she approaches all life occurrences, has been the biggest influence that she has had on our teams. I also believe that this will bode well for the future of our program."

Rebecca Vick



Alumni News Notes Alumni News Notes

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Submit your information at www.fit.edu/alumni/ftaaform.html

1970

William Willmot, M.S., has been selected for the American Biographical Institute's Man of the Year 2009 designation. He is a retired technical editor, residing in Merritt Island Fla

John Chappell recently retired and is doing public policy consulting. He had been Virginia's first executive director of an IL Center and a deputy commissioner at MRC. He resides in Hanover, Mass.

1986

Mike Brisbois and Oun Zhong-Brisbois welcomed Meilene on July 4, 2009. The family lives in Redmond, Wash.



1988

Leonard Hartman, M.B.A., is chief financial officer at Eckerd Youth Alternatives of Clearwater, Fla. Prior to joining EYA, he was senior director of finance and operations for The Devereux Foundation. He is a retired lieutenant commander from the United States Navv.

1990

Keesten Heskin Martinez has been named by Florida Trend magazine as part of the "Florida Legal Elite" for 2009. She has been with the law firm of Fisher, Rushmer, Werrenrath, Dickson, Talley & Dunlap, P.A., of Orlando, Fla., since 1996, in the area of family law.

1993

Luis Alonso and wife Carolina welcomed Daniel in April 2009. They are currently living in Dubai.



1994

Emilio Perez-Nuñez was married to Carmen Pichot in October 2008, in Madrid Spain.Several Florida Tech alumni attended the wedding, from left, Guillermo Vazquez '96. Robert DeWitt '94 and his wife



Jennifer DeWitt, Juan Miguel Carreño '94, Dr. David Tse '00, Maria Gonzalez-Guirado '93 and Luis Alonso '92 with his wife Carolina Alba.

1995

Cornelius DeRamus, M.S., and wife Stacie are proud parents of Nicholas, November 2008. Cornelius is a consultant for IBM, and the family lives in Bethesda, Md.



1996

Kristen (Guthrie) Barlow and Tom Barlow '98 M.S. announce the birth of their son, Keiran Lee in September 2008.



Kristen works for the American Red Cross Biomedical Services, and Tom is a special agent with the FBI. The family lives in the Washington, D.C., area.

Julie (Shepker) Clements '99 M.S. and husband Scott welcomed Nathan David in March 2009. Julie and Scott are both instructors at Keiser University in Melbourne, Fla.



1997

Arte Roman is a senior scientist with MSCW Inc., an Orlando-based community design firm. His expertise includes wetland jurisdictional delineations and protected species surveys for public and private developments and roadway corridors throughout Central Florida

1998

Kim (Sherrard) Erik '07 M.S. announce the birth of twin boys, Nathaniel Julian and Robert William, in June 2009. The family lives in Cocoa, Fla.





Steve Spooner nd wife Stacv parents Alvssa Addison Spooner. The family resides in Waterford, Conn. Steve is a pilot for

United Airlines, and Stacy is a radiologist at Backus Hospital. Friends can reach them at sspooner@powerholdinc.com.

1999

Alex and Carson (Coleman) Smith of Satellite Beach, Fla., welcomed Grayden Sullivan in April 2009. Both parents are pilots with Southwest



Airlines, based at Orlando International



T.J. Tiedeman and Gena (Hoskins) Tiedeman '00 are parents to Lucy Hayden born July 2009. T.J. is a civil engineer for the City of Palm Bay, Fla., and Gena works for ECS, supporting the FAA.

2000

Jeremy Tracey (Aiken) Rule and sister Mackenzie Joann, welcomed Ryan Nathaniel in March 2009. Jeremy systems engi-



neer with Lockheed Martin, and Tracey is at home with the children. They can be contacted at tracevruel@vahoo.com.

Calling all Panther Cubs!

Congratulations on your new arrival! If you've recently welcomed a new Panther Cub to your family, contact us for your free infant T-shirt. Your only obligation is to send us a photo of your baby wearing the shirt—we will proudly display it in this section of *Florida Tech TODAY*.

> E-mail hrosskam@fit.edu to receive your shirt.

In Memoriam

Tom R. Crawford '71 suffered a heart attack at his home in Oliver Springs, Tenn., in October 2009.

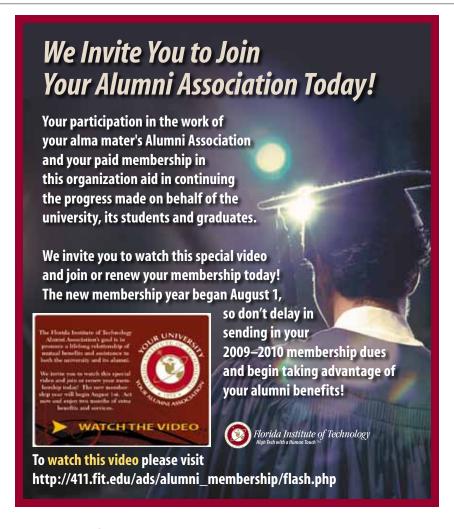
James Lon Andrews M.S. '74 passed away in February 2009 following an aggressive battle with cancer. He had been a teacher in Brevard County, Fla., for 39 years, a member of St. Teresa Catholic Church and the Knights of Columbus. He was in inspiration to many students through the science research program and marine science field work. His survivors include wife Judy, one daughter, two sons and 10 grandchildren. Donations in his name can be made to Hospice of St. Francis (www.hospiceofstfrancis.com).

Charles "Bill" Cushion M.S. '75, a retired Air Force colonel who most recently had worked for the Institute for Defense Analyses, passed away in October 2009, a victim of cancer. Col. Cushion served in the Air Force for 26 years prior to retiring in 1992. He is survived by his wife of 34 years, Dorothy, of Fairfax, Va., one daughter, two stepdaughters, a sister and seven grandchildren.

James D. Zapf '76 passed away in September 2009, a victim of ALS (Lou Gherig's Disease). Survivors include his wife of six years, Laurie, of West Chester, Penn, and two children. Jim and Bethann Zapf. Contributions are accepted at Wissahicken Hospice at The Penn Care Center (http://secure.pennhealth. com) or the ALS Association (www.alsphiladelphia.org).

Address

James "Jim" Larry Sargent M.S. '91 passed away in October 2009. He worked as a Brevard County, Fla., teacher and obtained a master's degree just prior to retiring. He is survived by two sons, two sisters, seven grandchildren and seven greatgrandchildren. Donations in his honor may be made to the Central Brevard Humane Society, 1020 Cox Road, Cocoa, Fla., 32926.



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Fill out our online form at: www.fit.edu/alumni/ftaaform.html or send this to: Florida Tech, Alumni Affairs, 150 W. University Blvd., Melbourne, FL 32901-6975 First Name _ MI ____ Last Name __

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ALUMNI RECEPTIONS

Contact the Alumni Office for more information on alumni receptions.

Feb. 2 Washington, D.C., area

Feb. 22 Houston, Texas

Feb. 23 Dallas-Ft. Worth

April 14 Boston

April 16 New York and New Jersey

"SAVE THE DATE" EVENTS I HELD ON CAMPUS UNLESS OTHERWISE NOTED Contact the Alumni Office for more information on alumni events.

January

Jan. 30-April 24

Ruth Funk Center for Textile Arts exhibit. Speaking with Thread: The Narrative of Textiles

February

Feb. 11 Humanities Lecture Series

Panel of authors discuss "Gold in Prose"

7 p.m., Hartley Room

Feb. 18-19

Uncommon Threads Symposium 2010: English Embroidery Free lecture on Feb. 18 at 7 p.m., Gleason Performing Arts Center Luncheon Symposium on Feb. 19, 10:30 a.m.—1:30 p.m., \$60 Hartley Room

Feb. 27 Annual International Festival, noon—5 p.m. Sample of cuisines, music, dance and song Panther Plaza and the Panthereum

Feb. 28 Twilight Jazz at the Panthereum, 3–6 p.m., free

March

March 6 Botanical Fest Plant and Garden Sale

Exotics, palms, accessories, door prizes and garden tours

March 19

Sporting Affair XVIII and Chopper Dropper

Suntree Country Club

March 28 and 31

French Film Festival

7 p.m., Gleason Performing Arts Center

March 28

Twilight Jazz at the Panthereum, 3–6 p.m., free

April

April 9 An Evening of Hope II

Scott Center for Autism Treatment

Cocktail reception and live auction

April 9 Northrop Grumman Student Design Showcase

Students show off their science and engineering projects Clemente Center for Sports and Recreation

April 7, 11 and 14

French Film Festival

7 p.m., Gleason Performing Arts Center

April 25

Twilight Jazz at the Panthereum, 3–6 p.m., free

ONGOING EVENTS | HELD ON CAMPUS UNLESS OTHERWISE NOTED

WFIT Concerts and Special Events—Visit www.wfit.org

Women's Business Center—Visit http://wbc.fit.edu

The WBC provides training, counseling, mentoring and technical assistance targeting women entrepreneurs and women-owned small businesses in Brevard, Indian River and St. Lucie counties.

Florida Tech **Brick Terrace**



A permanent recognition program for graduates, students, parents and friends of the university.

Have a brick inscribed in honor of yourself or another special person, in memory of someone not forgotten, or as a gift of encouragement or congratulations for a current student or recent graduate.

Go to www.fit.edu/alumni/special interests/bricks terrace to see the bricks already inscribed and to www.fit.edu/development/documents/ terrace.pdf to download the appropriate form for submission.



For questions or more information, Florida Institute of Technology please contact ddeaton@fit.edu.

Be Part of the Florida Tech Alumni Online Community

Available FREE to all alumni!



www.fit.edu/alumni | click on Alumni Online Community To obtain your security ID# so that you may register for the alumni online community, contact Marjorie Beckett, assistant director, at (321) 674-7642 or e-mail mbeckett@fit.edu.



Alumni Endorsement Grant

At Florida Tech, your endorsement counts! The deserving student(s) you refer will receive a \$1,000 grant, renewable annually for up to four years, toward their tuition for full-time undergraduate study on the Melbourne campus. You may recommend as many students as you wish.

Florida Tech Legacy Grant

Sons and daughters of Florida Tech alumni, enrolling in a full-time undergraduate program at Florida Tech are eligible for a \$2,500 grant on top of the alumni endorsement grant. This award is renewable for up to four years.

These awards are given in addition to any merit scholarship earned by the student. For more information and the appropriate forms, go to: www.fit.edu/alumni/services/index or www.fit.edu/ugrad/financial aid/scholarships

A simple form that takes 5 minutes to complete can be worth more than \$4,000 to a worthy student.





For a donation of \$50* you can have a BALL and a chance to win \$25,000!

We'll be flying high when we drop 2,000 numbered balls from a helicopter. The closest ball to the pin wins \$25,000! 2nd closest to pin wins \$10,000, 3rd closest wins \$5,000 and 10 lucky people win \$1,000 each! Grand Prize

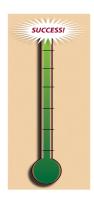
*suggested donation



Reserve your fickets now, before they're sold outil www.chopperdropper.com



Each ticket allows ONE PERSON to enjoy food and beverages at the Sporting Affair Cocktail Reception!



Thank You!

After a successful fundraising campaign, founder and first president Jerome P. Keuper stands in perpetuity overlooking the Florida Tech campus. Thank you to all who supported this historic project.

Kindness Solidifies Keuper Statue Success

It took Founding President **Jerome P. Keuper** just a matter of months to begin the university 51 years ago. A no-less dedicated committee of five devoted three years raising funds for a life-size bronze statue of Keuper, which was unveiled at the university's 2009 homecoming celebration (see additional photos on page 20).

The committee just this fall reached its goal of \$71,500 for the statue, which was created by renowned sculptor **Ed Jonas**. Although working now in his studio in Tallahassee, Jonas has a hometown connection. He's originally from Merritt Island and his parents today reside in Viera. This is his first statue in Brevard County.



Sculptor Ed Jonas and Melanie Keuper take a close look at the newly unveiled statue.

A nice touch was the unveiling by daughter of the founding president, **Melanie Keuper**, a committee member and Malabar resident. She was just a tot when her father conceived and began Florida Tech, originally known as Brevard Engineering College.

Other committee members included **Denton Clark**. Manager of the RCA missile test project in the late 50s and Keuper's boss, Clark was also one of the university's first trustees. Also fundraising were **Gene Buzzi**, a 1965 graduate; **Joe Brett**, former owner of Gator Chrysler and a good friend of Jerry Keuper's; and **Gene Fetner**, who knew Keuper since at least 1957.

"The committee worked tirelessly to fund this commemorative of Jerry," said **Ken Droscher**, executive director of the Florida Tech Alumni Association. "I know it's very gratifying for them to finally see it standing now behind the current Florida Tech president's office. We all appreciate the generosity of the contributors."

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