Pegasus

Pegasus

contents

November/December 2004
VOLUME 11, NUMBER 3

Living on the Edge

departments

Pegasus

UCF ALUMNI ASSOCIATION MISSION STATEMENT

The UCF Alumni Association is committed to assist, advise and support the university in achieving its mission. In support of this commitment, the Alumni Association endeavors to develop and enhance the lives of UCF alumni, parents, students and friends through a mutually beneficial relationship with the university.

Pegasus

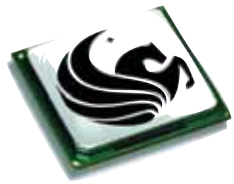
For information on alumni membership, activities or *Pegasus*, contact the UCF Alumni Association at: PMB 56, 12424 Research Pkwy., #301, Orlando, FL 32826. You can call (407) UCF-ALUM, toll-free (800) 330-ALUM, or fax (407) 823-0172. Or, you can e-mail your comments, ideas and suggestions to: knights@ucfalumni.com Connect anytime at: www.ucfalumni.com

For information on advertising, contact Katrina Kinnard-Rini at krini@ucfalumni.com or call (407) 823-2274.

n FROM THE UCF ALUMNI ASSOCIATION EDITOR

Now is the time; now is the best time; now is the best time of your life …

Does that tune sound familiar? If you ever rode the Carousel of Progress at Tomorrowland in the Magic Kingdom, you might have heard that catchy jingle over and over in your head after you left. At least I always did. Perhaps it was because the song introduced each act of the carousel as it showcased the technological advances of the 20th century. Members of an animatronic family gushed about how wonderful their modern conveniences were, starting in at the turn of the century when gramophones and gaslights were the rage. The '20s family boasted about having a refrigerator and an electric sewing machine. The '40s family was pleased as can be to have a little black and white TV, and the family of the futuristic '80s could tape their TV shows to watch at a later time.



The attraction's animators would be hard pressed to represent all the advances since the most recent turn of the century, as technology infuses nearly every aspect of modern life. UCF is on the forefront of innovation, ranging from offering degrees online to devising ways to fight electronic fraud to developing new wireless connections.

A century ago, soldiers went to war on horseback or on foot. Today, UCF students are testing remote control robots and vehicles in a move that will increase intelligence-gathering capabilities while keeping more soldiers out of mortal danger. Students are also helping children with disabilities do more using special assistive technology.

Video games are one of today's most popular forms of entertainment, and the university is working closely with EA Sports, creators of the highly popular 2005 Madden NFL and Nascar games. The company is expected to create hundreds of high-paying jobs in Central Florida and has asked UCF to develop a program to train the workers, resulting in the creation of the Florida Interactive Entertainment Academy.

This issue of *Pegasus* explores these and a few of the other ways UCF alumni, professors and students are using technology to make the world better, safer and a little more fun.

Technology has also changed the way Floyd Radford, '86, composes and records music. The soft-spoken engineer played guitar with popular rock bands before ever enrolling at UCF. He kept his past a secret from most of his fellow students and his Lockheed Martin coworkers — until now. I was honored that he shared his story with Pegasus.

Another year has flown by, and now is indeed one of the best times in the UCF Alumni Association's lifespan because we recently broke ground on the Fairwinds Alumni Center. By the next winter, you'll be invited to celebrate the season in your very own home on campus.

Happy Holidays!

Judy

Judy Creel, editor

Fall Ushers in 43,000 Students

In the brief time between hurricanes Charley and Frances, UCF students began classes and the pursuit of several new degrees on Aug. 23.

The university expected an enrollment of about 43,000 on the main campus and at nearly two dozen regional campuses and instructional centers. At the end of September, enrollment was 42,555, an increase over the fall 2003 enrollment of 41,685. This year's incoming freshmen earned an average SAT score of 1187, an increase of 11 points over last year.

Some of UCF's new programs this fall will allow students to obtain a doctoral degree in conservation biology and master's degrees in computer art and design, forensic science and nonprofit management. The university also expanded its offerings in theater, political science, communicative disorders, Latin American studies and undergraduate nanoscience research.

In a new pilot program called Grad on Track, 60 UCF freshmen declared a major and signed a contract listing all of the classes they plan to take. If they stick with the major and successfully complete all of the listed courses, UCF will ensure that the freshmen get a spot in all of their classes and graduate in four years.

Scientist Honored

Peter Delfyett, a professor of optics, physics and electrical and computer engineering at UCF, was selected as one of the "50 Most Important Blacks in Research Science" by *Science Spectrum* magazine.

Delfyett, who specializes in laser and fiberoptics research, was recognized for his "lifelong work in making science part of global society."

"It is an honor for me to be acknowledged as one of the 50 most important black scientists," Delfyett said. "I'm happy to have that honor bestowed on me while I'm at UCF. When you're at a great place with great faculty and great students, it becomes easy to do great things."

Delfyett and his team of 15 doctoral students and scientists are trying to increase the speed at which data can be transmitted through semiconductor chips, thereby speeding up downloading from the Internet and making computer networks work faster.

Peter Delfyett has taught at UCF for 10 years.

Psychology Department Wins National Award

Doctoral student Renée DeRouin helped write a nomination essay emphasizing the UCF Psychology Department's research strengths, involvement with professional organizations and attentiveness to student input.

The American Psychological Association of Graduate Students named UCF's Psychology Department its 2004 Department of the Year.

The award recognizes a graduate psychology department that has shown an outstanding commitment to graduate students through student-faculty relations and by attending to student needs.

"I think [the award] shows what a strong graduate department we have, even though our programs are relatively new," said Richard Tucker, interim chair, adding that he's pleased "just knowing that our graduate students think so well of us."

Renée DeRouin, a doctoral student in industrial and organizational psychology, nominated UCF for the award and collaborated with Tucker to write an essay for the nomination.

The association, which was founded in 1988 and has more than 41,000 members, is the largest organization of graduate psychology students worldwide.

Latin American Studies Reinvigorated

UCF's Latin American, Caribbean and Latino/Latina Studies program received a new name, a new director and new initiatives this year.

Formerly called Latin American and Iberian Studies, the program now reflects a broader focus that includes courses and scholarly activities on the Latino and Hispanic populations in the United States.

Luis Martinez-Fernández, a scholar of Cuban, Puerto Rican and Dominican Republic history, is directing the program. He joined UCF this fall from Rutgers University where he chaired the Puerto Rican and Hispanic Caribbean Studies Department. His most acclaimed book is "Fighting Slavery in the Caribbean," and his most recent work is the two-volume "Encyclopedia of Cuba."

Martinez-Fernández plans to expand the program's influence at UCF, the Central Florida community and nationally, and he wants to foster and support new research locally.

"Understanding Latin Americans and Latinos is not essential just for students or faculty members," Martinez-Fernández said. "This knowledge is critical for policy makers, businesses, employers, as well as for people like my UCF colleagues and me, who are interested in the scholarly dimension of such studies."

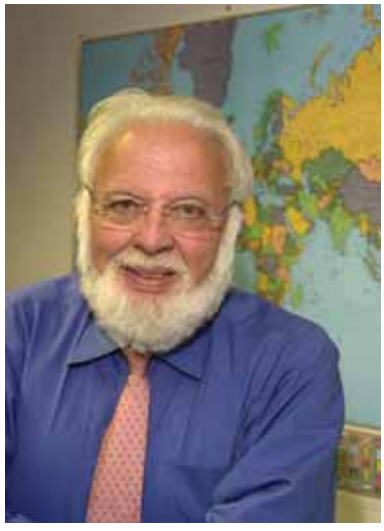
Luis Martinez-Fernández directs UCF's Latin American, Caribbean and Latino/Latina Studies program.

Watch Engineering III Grow

You can watch the construction of the Engineering III building by visiting the Engineering III live webcam at http://132.170.204.138. The new home of the School of Computer Science and the Department of Electrical and Computer Engineering is scheduled to be finished by mid 2005.

For links to expanded versions of many of these news briefs, visit www.ucfalumni.com and click on Pegasus.

UCF Terrorism Expert: Anticipate Protracted War on Terror



Stephen Sloan will teach international terrorism courses at UCF.

Three years after the Sept. 11 terrorist attacks, Americans should anticipate a protracted war on terror with no chance of an "unconditional victory," said newly hired UCF professor and renowned terrorism expert Stephen Sloan.

Sloan, a consultant on terrorism and peacekeeping issues to governments and corporations worldwide for three decades, began working this fall as a fellow in the UCF Global Perspectives Office and as a professor who will teach courses on international terrorism. Sloan previously taught for 38 years at the University of Oklahoma.

"Terrorists will seek to achieve their goal by breaking down the will of the targeted nations and people," Sloan said. "It's a form of psychological warfare. They want to wear people down and lessen the resolve of the people in the face of continuous, long-term assaults."

Sloan was a member of the steering committee that established the National Memorial Institute for the Prevention of Terrorism, a nonprofit group that was incorporated in 1999 to fulfill the desires of the families of Oklahoma City bombing victims to have a "living memorial." The group researches the social and political causes of terrorism as well as the technology that can counter attacks. Sloan lived 10 blocks from the Murrah Federal Building in Oklahoma City.

Sloan's goal at UCF is to help students understand the nature and context of terrorism. He wants to bring together policymakers and other government officials involved in terrorism to help educate students. In their future jobs, those students then could draw on their knowledge of past terrorist activities to help them deal with the issue.

Traveling Knights

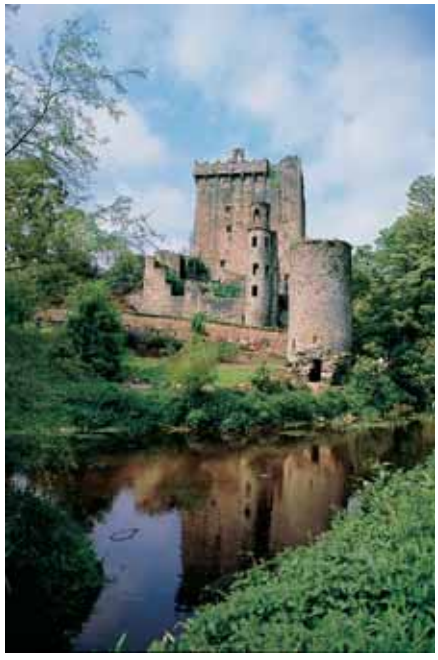
In years past, the UCF Alumni Association has planned trips to the Panama Canal, toured medieval castles in Scotland, touched the famous footprints of Pablo Picasso in Spain and cruised the Rhine River in Germany. Next summer, plan an escape to the Emerald Isle.

Kinsale, Ireland

July 31 - August 8, 2005
From approximately $1,995 per person, plus airfare, based on double occupancy.

Quaint and charming Kinsale is a harbor town made up of crooked streets, bow-fronted shops and slate-hung houses. The gourmet capital of Ireland, some of its best restaurants comprise the Good Food Circle, ensuring quality cuisine.

Visit the famed Bantry House. See the Italianate Gardens on the Garinish Island. Kiss the Blarney Stone and see the town of Cobh, where its Heritage Center depicts the Queenstown Story of Irish emigration. An excursion features the dramatic scenery, stunning panoramas and twisting roads of the famous Ring of Kerry. Your home during your stay is the Actons Hotel. Located in the midst of an historic seaside setting, it offers a wealth of amenities and is full of Irish hospitality.



In addition to the featured travel program, the UCF Alumni Association also provides you the opportunity to travel independently on all Alumni Holidays International programs and dates. Visit the AHI Web site at www.ahitravel.com/cenfl for complete descriptions of all the travel opportunities.

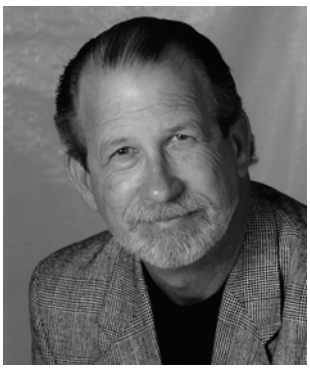
Business Accolades

College of Business Administration bestows its highest honor on alumni

BY JOANNE CHIVE, '03

Four alumni were inducted into the College of Business Administration (CBA) Hall of Fame during the 6th Annual Awards Banquet in September. Class of 2004 inductees include:

G. Thomas Bland, Jr., '75 and '79
President and CEO, AquaFiber Technologies Corporation



Bland has a B.S.B.A. in finance, as well as an M.B.A. Upon graduation, he was recruited by Martin Marietta as an analyst in project finance. Bland quickly advanced through the ranks of the firm and later accepted a position as CFO at Coleman Research Corporation, a successful think-tank organization in Orlando. Previous employment also includes serving as president of International Analytic Corporation, establishing TenderCare Professional Assisted Living Services, Inc., a home healthcare firm, and serving as a management consultant. He has worked with AquaFiber Technologies, a surface water restoration firm, since March 2000. Bland was an adjunct faculty member in the CBA for 20 years. Active in the community, he serves on the Florida Hospital Diabetes Foundation Board, TenderCare PALS Board and the CBA Dean's Executive Council.

Andrew J. Fore, III, '76 and '83
Executive Director, Citigroup Business Services, Europe, Middle East and Africa

Fore has a B.S.B.A. in finance and an M.B.A. He joined Citigroup in August 1998 after spending eight years with the CNA Insurance Companies and 14 years with American Express. He relocated to London in April 2002 to assume his current position. In this role, he is responsible for procurement, general services, accounts payable, financial center, human resources and payroll services on behalf of the Citigroup businesses in Europe, Middle East and Africa. There are 1,800 employees in this group with an operating budget in excess of $130 million. Fore is a member of the CBA Dean's Executive Council and was the recipient of the Professional Achievement Award from the college in 1996.

Paul P. Gregg, '74 and '76
Senior Vice President and CFO, CNG Producing Company (1985-2000)

Gregg has a B.S.B.A. and an M.S.A. in accounting. He has a background in both corporate finance and public accounting. Gregg started his career at Price-Waterhouse, where he rose to senior audit manager. He left to join CNG Producing Company, a New Orleans-based oil and gas exploration company owned by Consolidated Natural Gas. While at CNG, he became senior vice president and CFO and was actively involved in mergers and acquisitions. After leaving CNG, Gregg served as senior vice president of Road Runner High Speed Online, before moving back to Orlando. He is currently an instructor in the CBA Finance Department and serves on the Dean's Executive Council. Gregg is a licensed Florida CPA and continues to perform CFO consulting work as a partner of Tatum Partners, a national CFO partnership.

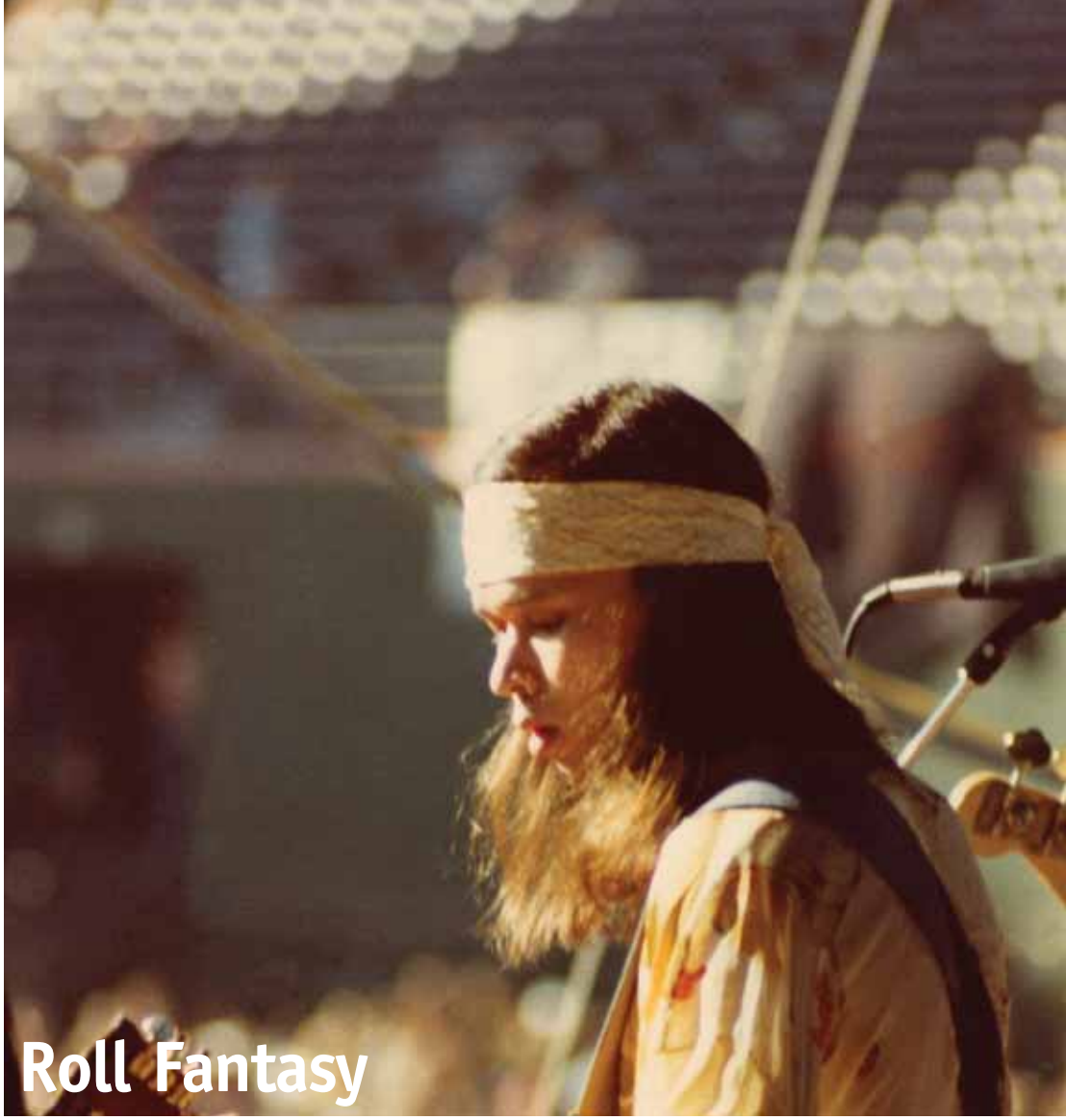
Nan B. McCormick, '83
Partner – Senior Vice President, CB Richard Ellis

McCormick has a B.S.B.A. in finance. During her 20-year tenure at CB Richard Ellis, Inc., she has been involved in numerous lease and sale transactions totaling more than $985 million. McCormick received recognition in the brokerage community as one of the top office brokers in the Orlando market, and has placed in the CB Richard Ellis Top 5 for the past 19 years, earning the No. 1 position 10 times. She is the past president of the National Association of Industrial and Office Properties (NAIOP) and is active in several other organizations. Additionally, she is a member of the CBA Dean's Executive Council and was the recipient of the Professional Achievement Award from the college in 2001.

A Special Honor

In addition to the inductees, Peter Panousis, founder and director of the Institute for Economic Competitiveness in the CBA, was recognized for his contributions to the college and to UCF.

Since 1999, 30 business graduates have been inducted into the CBA Hall of Fame. To learn more about past inductees, visit www.bus.ucf.edu/alumni.



Rock and Roll Fantasy

You might have been sitting next to a rock star in engineering class.

BY JUDY CREEL

Sitting in his living room, Floyd Radford, '86, is the picture of tranquility. He smiles as his new wife, Stacy, walks into the room. It's not hard to imagine him playing in his church's praise and worship band. You can easily believe that he is happy as an engineer with Lockheed Martin.

There's simply no hint that beneath the surface beats the heart of a rock and roll star — until you peek in his den, where a close-up of a young Radford in *Rolling Stone* magazine hangs on the wall.

Unbeknownst to his engineering coworkers, or to his UCF classmates in the mid 1980s, Radford played rhythm and lead guitar with two of the hottest acts of the 1970s, Edgar and Johnny Winter. Discovered just weeks before his high school graduation, Radford rode a roller coaster from the height of fame down to the lowest lows and back to the top again, gaining a lifetime of experience before he ever enrolled at the university.

Radford's musical journey began in 1963, when he was 11 and his interests turned from Little League baseball to playing the guitar.

"Elvis was very big back then, and he was my idol because he played guitar," Radford said. "Several years later I learned that other guitar players actually were strumming the guitar and he was just up there playing the part. If you look at the old movies, you can see he's really not playing, but you hear this wonderful guitar music. That music is what got me started."

A year later, during a visit with his mother's family in Japan, Radford's parents bought him an electric guitar for his birthday. The family returned home to Hawaii, where Radford and a neighbor formed a band. "I was playing the clubs when I was 12," he said. "Since they served alcohol, the others were old enough to be in there but I wasn't, so they'd put me at one of the tables off in a corner during the breaks and tell me to play with my toys until it was time to go back on stage."

The family moved to Central Florida in 1965, where Radford's father was stationed at the Orlando Air Force Base.

Floyd Radford, '86, recorded his first album with Tin House (top right) before joining the bands of both Johnny and Edgar Winter. Radford is cener stage on the White Trash album, bottom right.

"My father was into computers when they were just starting out," Radford said. "I knew it was an exciting field, and I loved science and math and thought that I would want to do something in the scientific world eventually, but at the time I just wanted to play music. I am very fortunate that my parents supported me in anything I wanted to do."

THE BIG BREAK

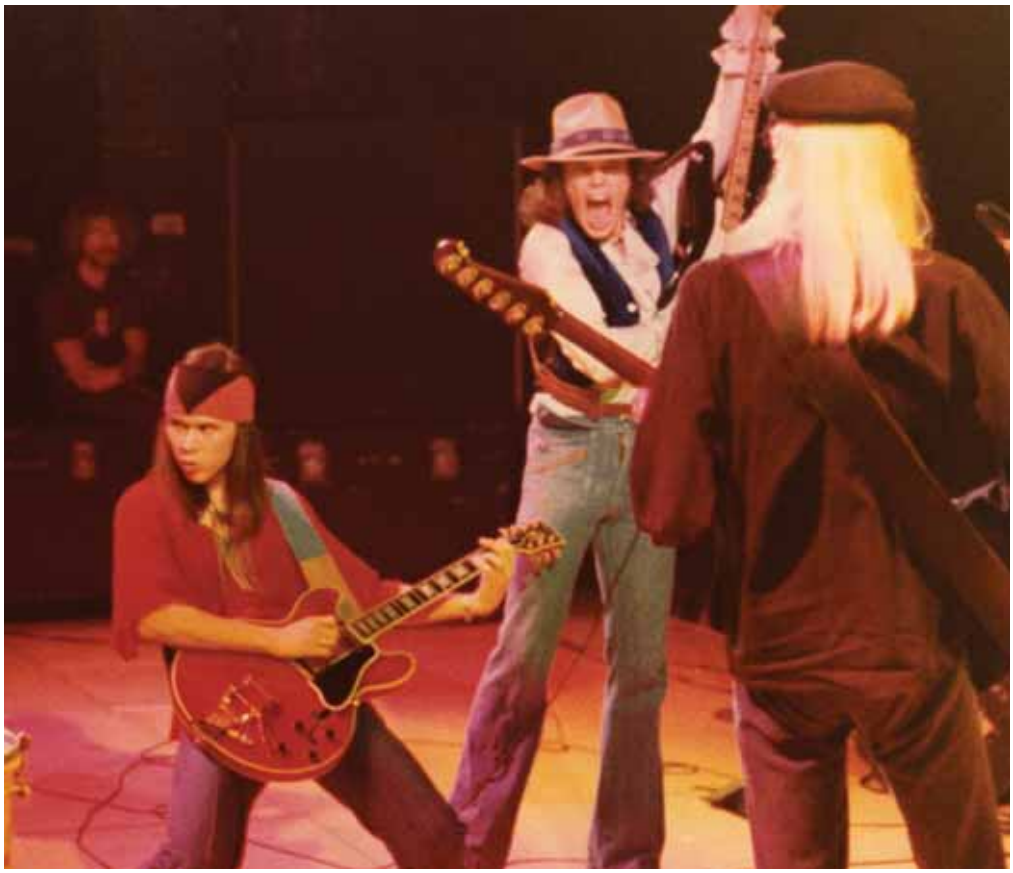
Throughout high school, Radford played with a variety of bands until he found his niche with a group called Tin House. They played at teen centers, youth clubs and school dances, in a style reminiscent of Led Zeppelin and Jimi Hendrix. Then came their big break — the three-day-long Winter's End Pop Festival in 1970. The same people who had produced Woodstock a year earlier had organized a similar festival at what is now SpeedWorld in Bithlo. More than 50,000 screaming fans watched Tin House and bands like the Allman Brothers, Joan Baez, Mountain, and Edgar and Johnny Winter.

Tin House went on second, to warm up the crowd, and when they finished the audience roared its approval. Noticing the attention, the promoter brought Tin House back the next day. They received a second standing ovation and a photographer snapped Radford's picture for *Rolling Stone*. Impressed with their act, Johnny Winter's manager invited Tin House to open up for Winter on his upcoming tour and offered to get them a recording deal with Epic Records.

"I was 17. In order to sign a record contract, my parents had to agree," Radford recalled. "My father insisted that I finish high school first. Two months later, we graduated and Tin House headed to New York City. We recorded our album in CBS Studio C that summer, at the same time Paul McCartney was up in Studio A recording his first solo album. Our drummer met him in the elevator."

After recording the album, Tin House's first job was opening for Alice Cooper in Detroit. "It was like a dream come true," said Radford. "We graduated from high school and suddenly we were 'playing ball with the heavies' as they called it then." Tin House's second job was opening up for Johnny Winter and Buddy Miles at the Filmore East in New York City, the pinnacle of success in the music industry in 1970. "If you played the Filmore, you made it," Radford added.

Radford went on to play guitar for Johnny's brother, Edgar Winter, who was famous for the songs "Frankenstein" and "Free Ride" with his group Edgar Winter's White Trash. Loyal to his friends, Radford continued to play with Tin House at the same time, and both bands toured the country together, playing to encores and standing ovations through the end of 1971. Excessive playing wore Radford out, and he needed a break. Winter formed a new



Radford, left, became known for his extensive bandana collection while touring with Johnny Winter.

band, The Edgar Winter Group, and Floyd headed back to Florida to recuperate.

COMING HOME

Although he was young to be a professional musician, touring the country (and the world) was nothing new for Radford. Traveling with his family and the U.S. Air Force, he attended a different school each year for 12 years, including Central Florida's Glenridge and South Seminole junior highs, and Lyman, Edgewater and Winter Park high schools. Ever the exacting engineer, Radford explained that Winter Park built a new school in a different location his senior year, so technically it was a different school.

Back home after his first brush with fame, Radford formed a band called Heaven. The group played a concert at FTU's Lake Claire, and also played in the very first concert held at the Tangerine Bowl, now known as the Citrus Bowl, on April 1, 1972.

FROM DOWN AND OUT TO RISING STAR AND BACK

Fast forward a couple of years and Radford and his first wife were living in Los Angeles, barely scraping by. "We were so poor we were eating a potato a day, trying different ways to cook it," Radford said with a laugh. One day, Johnny Winter's manager was in town and Radford tried to sell him some music equipment in order to raise some cash. "I asked if he needed some guitar speakers, and he said no, but Johnny needs a guitar player," Radford said. "Two weeks later, I was on stage filming a television show in London. The next two years — 1974-76 — were the high point of my music career."

During this tour, Radford recorded his biggest album to date, "Johnny Winter Captured Live," at the Oakland Raiders stadium in California. The album reflected the incredible popularity of the band as they played in concert after concert. While Johnny's style of rhythm and blues was not commercial enough for record sales, it was well suited to performances and the crowds always responded.

The Johnny Winter tour had as its opening act young Peter Frampton. "Peter brought a mobile recording unit to every gig and recorded all his performances. I'd go out to listen to him, and he was just incredible, a phenomenal musician," Radford said. "He picked the best songs from the best performances throughout the tour, put them together and put out an album. "Frampton Comes Alive" was a huge, multi-million-dollar seller. When you listen to it, know that I was standing on the side of the stage, watching him play."

The Edgar Winter Group joined the tour toward the end and Radford continued to play guitar for Johnny Winter while Rick Derringer played for Edgar. Earlier, their roles had been reversed. "We began to kid everybody that we had our degrees from the Winter Brothers School of Music," Radford said.

The tour ended abruptly, however, when Johnny Winter got sick and canceled an engagement with ZZ Top in Tampa. Johnny had had enough, and the band broke up. Edgar asked Radford to help him move into a new house in Connecticut. Going through a divorce, Radford agreed and went to live with Edgar.

The two met with Richard Hughes (drums) and Randy Jo Hobbs (bass) and recorded music in Edgar's basement studio, but nothing panned out. In 1977 they decided to reform Edgar Winter's White Trash with several members from the original group from 1970.

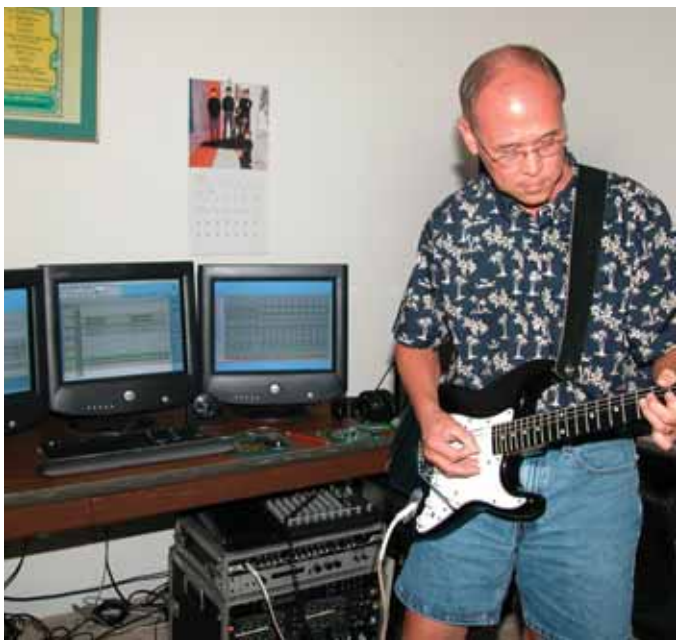
By 1978, the bubble burst once again and Radford headed back to Florida, in search of a steady job.

FROM MUSICIAN TO ENGINEER

Approaching age 30 and tired of riding the roller coaster, Radford wanted a job where he would feel secure. He decided to become an aerospace engineer, but nearly lost his resolve when he failed the math entrance exam at Valencia Community College. "I made A's in algebra in high school, but it had been many years. I was not going to let that get in my way. I ended up getting a 4.0."

From there, he enrolled at UCF, where his father, James, was the assistant director at the computer cen-

Stacy and Floyd, left, recently reunited with Johnny Winter when he visited Orlando.



Radford composes and records music in his own den. Unlike the state-of-the-art tape machines he once used, which cost a quarter of a million dollars and would hold 24 tracks, he can record 128 tracks on his Macintosh computer.

ter. "My father retired from the Air Force in 1968 and went to work for Florida Technological University," Floyd said. "He spent 24 years at the university, so I knew all about FTU — UCF — all along."

A serious student, Radford kept his music past a secret. He studied electrical engineering and was eager to learn more. "I was very excited about physics and mathematics, and I was trying to come up with the grand unification theory that is still elusive to scientists today," Radford explained. "I would study on the side, trying to determine the correlations between the different sciences. At one time I had four books open and was pulling from all four, putting theories together." He still hopes to prove his theories and publish them one day.

In 1986, Radford was nearing graduation when he received a call from Edgar Winter. "He told me, 'remember, we decided that we're going to get Edgar Winter's White Trash together for a reunion every seven years,' and I had to say, 'but Edgar, I have finals to study for. I just can't.' There was my dedication to UCF. What all students should realize that not even a job as a rock star is as important as an education," he said with a grin.

Radford donned his cap and gown and graduated summa cum laude a few weeks later, then earned a master's degree in electrical engineering at Florida Institute of Technology in 1991.

INTO THE WORKFORCE

Starting as a work study student, Radford began working for Martin Marietta in 1982. Once he earned his diploma, he made a leap up to a whole new level. He has stayed with the company as its name evolved to Lockheed Martin and today works at Lockheed Martin Simulation, Training and Support in Orlando.

Radford works in a field called automatic test equipment where he tests electronic components that are in all military aircraft, helicopters, patriot missiles, etc. He writes the software to program the devices in the test station to stimulate and measure response from the "black box" that comes out of the aircraft. It's both hardware and software intensive, and Radford reports that he still consults his textbooks to help find the answers.

A few years ago he was awarded a two-year assignment in Nagoya, Japan, the very town where his mother's relatives still live. The reunion was heartwarming, since he had not seen his family since the year he received his first electric guitar back in 1964. He worked supporting Mitsubishi Heavy Industries, which won the contract to produce the F-16 fighter for the Japanese government, renamed the F-2.

COMING FULL CIRCLE

While Radford's eyes light up as he discusses advances in engineering and research and development, they get even brighter when he picks up a guitar again. It's just like riding a bike — he hasn't forgotten how to make the instrument sing.

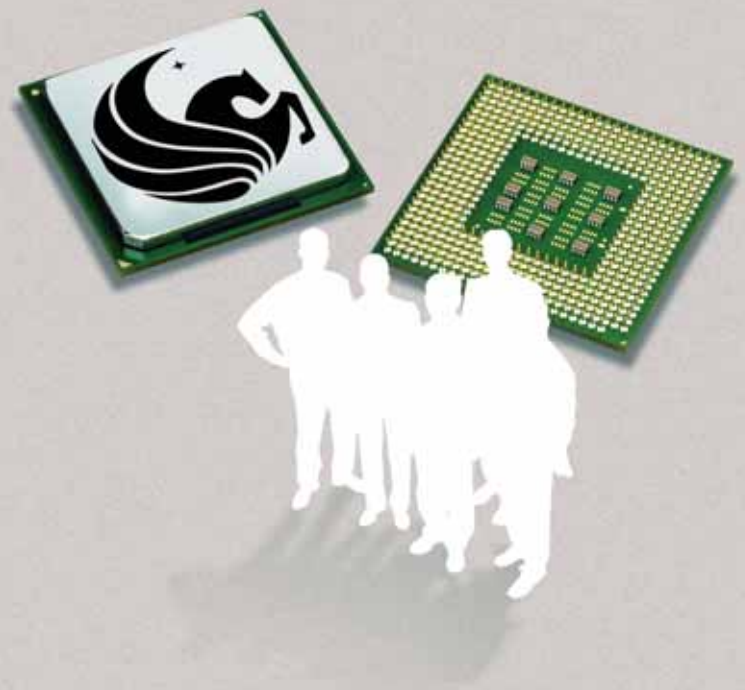
When Radford gets the itch to play in public, he has an open invitation from several local bands, such as Stone Soup and the Don't Quit Your Day Job Band, to join them. He also does post-production work for Sound-O-Rama, recording parts for movies and television.

He tones down his former hard rock guitar when playing for the Church of the Messiah, an Episcopal church in his home town of Winter Garden. That's the same church where he married Stacy, a teacher at Hope Charter School, in June. The two met in 2000 and it was love at first sight.

In his spare time, Radford is combining his computer expertise with his love of music, writing songs with the help of a computer, a guitar and a keyboard. "I record directly to hard disks, a new technology, not to tape anymore. Back when I was recording with Tin House, you were talking half a million dollars to set up a studio. I've got a Macintosh right here that will outdo any of those tape machines," Radford explained. "Basically I can record part by part to the hard disk, and that's a good way to express myself as a songwriter. I usually put down the rhythm guitar first, and then record the rest of the instruments, including the bass and lead guitars, and maybe the piano."

Radford doesn't play piano, but has a synthesizer guitar that allows him to play notes the keyboard can understand.

"That's how it comes together," he said. "I'm an engineer — I write software and work with digital and analog hardware. I play an analog instrument; I digitize it and work with software, and it comes full circle. That's my way of doing both music and engineering, and it's a great feeling to be able to have fun at both."



Living on the Edge

UCF AND ITS GRADS DELIVER ON TECHNOLOGY'S PROMISE, MAKING THE WORLD SAFER, MORE EFFICIENT — AND A LITTLE MORE FUN

HIGH-TECH CRIME FIGHTING

New UCF laboratory will help police and the U.S. Secret Service solve electronic crimes

BY CHAD BINETTE

Headquartered at the National Center for Forensic Science at UCF, a new team of local police officers and U.S. Secret Service agents are fighting bank and credit card fraud and helping companies protect their computer systems from hackers.

The Florida Law Enforcement Electronic Evidence Team, or FLEET, makes it easier for state and local law enforcement agencies to work together to solve electronic crimes. The new lab, one of two in Florida coordinated by the Secret Service, also makes it easier for deputies and officers to access the resources and training available through the National Center for Forensic Science, said Jim Glendinning, acting special agent in charge of the Secret Service's Orlando Field Office.

"We're hoping the resources from the National Center for Forensic Science and UCF also will be used by the Secret Service's Jacksonville and Tampa offices to assist them with high-tech crimes," Glendinning said. "The resources of the national center are simply too tremendous to be used solely by the Orlando Field Office."

Glendinning joined National Center for Forensic Science Director Carrie Whitcomb and State Attorney Lawson Lamar on June 22 at a grand-opening ceremony for the new lab. Representatives from several county sheriff's offices and municipal police offices also attended the festivities in the center's first-floor lecture hall.

Several students who have received graduate certificates in computer forensic programs at UCF also attended. Luke Erickson, the national center's program manager for digital evidence, gave demonstrations of the equipment in the lab to police and news reporters.

The creation of the lab stems from the Patriot Act, which required the establishment of regional task forces to investigate electronic crimes. The Secret Service has set up 13 such task forces, including one

Jim Glendinning, acting special agent in charge of the U.S. Secret Service's Orlando Field Office (left), joins Carrie Whitcomb, director of the National Center for Forensic Science at UCF, and Luke Erickson, UCF's project manager of digital evidence.

Equipment in the Florida Law Enforcement Electronic Evidence Team lab allows investigators to copy and analyze data from seized computer hard drives.

in Miami. While the Orlando center won't officially be a task force at first, the center is designed with goals similar to the task forces' missions.

Glendinning and Whitcomb stressed the importance of partnerships in the new venture. Local, state and federal law enforcement agencies in central and northern Florida will be invited to participate as much as they want. Sharing information among law enforcement agencies and corporations is a priority.

UCF and the Secret Service already had good relationships in computer forensics with several area agencies, including Orlando police and the Orange, Seminole, Lake and Polk county sheriff's offices. The new lab should strengthen those partnerships.

One of the new program's long-term goals is to train employees of local police departments and to help them create computer forensic programs. That will be especially helpful to smaller agencies that cannot afford to pay tens of thousands of dollars for the training and equipment that an officer needs to do that job, Glendinning said.

"IN THE OLD DAYS, IT WAS OBVIOUS WHEN YOUR BANK WAS BEING ROBBED. NOW, WHEN CRIMINALS HACK INTO YOUR BANK'S COMPUTERS, IT IS NOT SO OBVIOUS."

– Carrie Whitcomb
Director, National Center For Forensic Science

The new lab and team members also will help the Secret Service fulfill its mission of protecting the president and other top government officials, as the lab's resources could be used to trace the sources of electronic threats.

UCF's National Center for Forensic Science, a member of the National Institute of Justice's Forensic Resource Network, and the Secret Service both bring many years of experience in working with electronic crimes to the new team.

Whitcomb has worked with the FBI and other law enforcement agencies to develop rules for obtaining, preserving and examining electronic evidence, such as e-mail and Palm Pilot messages, to improve the chances of criminal charges standing up in court. The Secret Service has investigated credit and bank fraud since the mid-1980s, and the agency's role in investigating financial crimes has increased dramatically since then.

Whitcomb and Glendinning said they hope their new collaboration will help them better identify new trends in electronic crimes and to show residents and businesses how they can use technology to protect themselves against such crimes.

"Technology will assist people in committing all of the traditional crimes we have always had," Whitcomb said. "In the old days, it was obvious when your bank was being robbed. Now, when criminals hack into your bank's computers, it is not so obvious, and it may even take time for the bank to realize it has been compromised. We want to work together to make businesses more aware of the technology they can use to prevent these crimes."

AN "EXCEPTIONAL" EFFORT

UCF sponsors a summer educational program like no other

BY JACK ROTH, '94

When the Toni Jennings Exceptional Education Institute was created a few years ago, it was the result of one family's search for services to meet the exceptional needs of their young son. By using interdisciplinary research, practice and partnerships, the institute strives to provide educational and clinical services for children and adults with exceptional needs and their families.

Perhaps no other program exemplifies these efforts like TEENTECH.

TEENTECH is a collaborative project sponsored by CITE (Center for Independence, Training and Education), ATEN (Assistive Technology Education Network), CIL (Center for Independent Living), Madentec, Ltd., IDEA Special Needs Consults, Inc., and the Toni Jennings Exceptional Education Institute. The program was started in 1998 with the institute becoming a partner in the summer of 2002. The program, initially housed at the CITE facility in Orlando, is now held at the UCF Academy for Teaching, Learning and Leadership on UCF's main campus.

The goal of TEENTECH is to provide an in-depth experience in the use of assistive technology for middle school exceptional education students who use or need to use assistive technology to improve their participation in school. These middle schoolers have disabilities such as cerebral palsy or Down's syndrome that make it difficult for them to communicate.

TEENTECH participants work with their parents and UCF students to improve communication skills with the help of technology.

"Nothing like this program exists in Central Florida," said Farida Roszak, whose 15-year-old son Matthew recently completed the second of two summer sessions. "Computer skills are so important and technology advances so quickly that it's important to keep up, especially with assistive technology."

Matthew was in private speech therapy in Orlando when Roszak heard other parents talking about TEENTECH. It sounded great to her, especially the fact that at least one parent, older sibling or caregiver sits with the child while he or she learns the program. "This helps parents learn what they need to know in order to help once the session is completed," said Roszak.

There were two five-day programs this past summer during which the teens used software to help them search the Internet and find information on elephants, giraffes and other animals. They wrote reports, and on the final day of the program presented their findings in front of approximately 50 people.

THE GOAL OF TEENTECH IS TO PROVIDE AN IN-DEPTH EXPERIENCE IN THE USE OF ASSISTIVE TECHNOLOGY FOR MIDDLE SCHOOL EXCEPTIONAL EDUCATION STUDENTS WHO USE OR NEED TO USE ASSISTIVE TECHNOLOGY TO IMPROVE THEIR PARTICIPATION IN SCHOOL.

A trip to Walt Disney World's Animal Kingdom, during which they experienced close-up encounters with the animals they were researching and asked tour guides specific questions related to their presentation topic, was the highlight of the program agenda.

According to Robin Basile, assistant director of the UCF Academy/Toni Jennings Exceptional Education Institute, the children's sincere interest in the animals they were researching was palpable, as was their sense of accomplishment when giving their presentations.

"Computer skills and other knowledge obtained during TEENTECH are invaluable, but the confidence gained in putting together and presenting the reports can't be measured," said Basile. "Many of them were more assured and confident about their presentations than some professional adults would be, which is remarkable."

A LEARNING EXPERIENCE FOR EVERYONE

In addition to providing a much-needed service to children with disabilities, TEENTECH also provides UCF's pre-service teacher interns and related professionals with valuable hands-on learning experiences to enhance their classroom work.

Student interns participating in graduate and undergraduate courses in the Exceptional Education program of the College of Education and the Communicative Disorders program of the College of Health and Public Affairs work hands-on with the program participants throughout the sessions and use the program as a practicum activity for course credit.

"It accounts for more than 50 percent of their grades," said Jennifer Kent-Walsh, Ph.D., assistant professor of the Department of Communicative Disorders. "They also have to write reports and give presentations on their experiences."

Students learn about assistive technology in a course designed specifically for the discipline and go through a three-day intensive training program in order to make them proficient with the technology by the time TEENTECH begins. "The goal is to help these teenagers use the technology in a way they can apply to their individual needs," said Kent-Walsh. "These technologies are their voice, and we don't want to let them down."

TEENTECH participants continue to use the assistive technology at school and/or at home, so the learning doesn't end at TEENTECH. "The benefits are long-term," said Kent-Walsh. "And my students, besides acquiring technical and clinical skills, are also fulfilled on an emotional level."

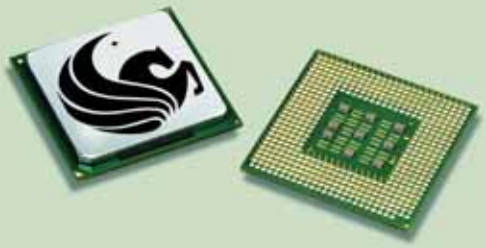
Jonathan Giza, front, and the other TEENTECH participants visit Walt Disney World's Animal Kingdom and later write reports about the animals.

Hope McLeod, a UCF senior working toward her second career as a speech language pathologist, quit her corporate job at Tupperware a year ago as part of a cathartic life change. She's using her 401k plan obtained at Tupperware to support herself while attending UCF. Business accomplishments aside, her self-actualization came with the realization that helping others is what really matters.

"We take for granted our ability to communicate, and these kids have a right to have their voices heard," she said. "TEENTECH provides an incredible opportunity before I even start my career, and I'm smart enough now to know how important this experience was both technically and emotionally."

After her experience with TEENTECH, McLeod believes that the teens involved "are more the teachers than we are."

Like McLeod, many UCF students have never worked with exceptional needs children. Some are daunted at first, but the fear is soon taken away as they get to know these incredible human beings. According to Walsh, you can't create these personal connections in the classroom, and personal connections are what the field is all about.



SAFER COMBAT

UCF research with toy soldiers aims to help the Army better use unmanned vehicles

BY CHAD BINETTE

A miniature city built to resemble Najaf — with toy soldiers, GI Joe military trucks and palm trees made out of pipe cleaners — is the setting for a UCF research project aimed at helping the U.S. Army rely more on unmanned vehicles during wars.

UCF researchers are studying how well students navigate remote-controlled trucks through a war-like environment, avoiding dangerous situations and recognizing friends from foes. The students, including many Army ROTC cadets, sat in a room next to the "city" and watched a television screen with images from cameras mounted on the remote-controlled trucks they controlled.

In some of the experiments, students tried to control two or more vehicles at once in an effort to determine whether one soldier can effectively operate more than one unmanned tank delivering supplies or scoping out enemy hideouts. The Army also wants to learn more about how much confidence people have in working with robots.

> THE UCF FINDINGS WILL HELP THE ARMY FIGURE OUT THE BEST WAY TO TRAIN SOLDIERS TO WORK WITH ROBOTS IN THE BATTLEFIELD.

UCF's research is focused on learning more about how humans and robots interact at a time when the military wants to use more robotic air and ground vehicles to make operations safer and more effective during wars. Other universities are helping the military by designing and testing robotic software and hardware.

The UCF findings will help the Army figure out the best way to train soldiers to work with robots in the battlefield,

The model city fills a room.

Florian Jentsch, director of the Team Performance Laboratory, is the lead researcher on the project.

said Neal Finkelstein, deputy director of the Army's Simulation & Training Technology Center. The center is located in the Central Florida Research Park, which is adjacent to UCF's Orlando campus.

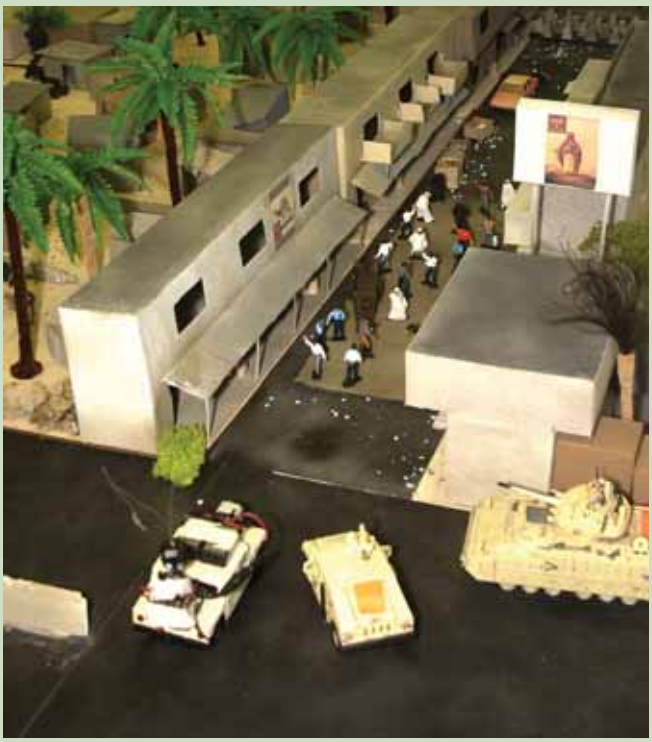
"Whether you are using a $100,000 robot or a $5 robot, when you are learning about span of control or how a soldier in a tank can hand off control to a soldier on the ground, the use of low-cost tools may be good enough," Finkelstein said. "We may find that we may need to upgrade to some of the more expensive robots we have in the area, but for now, we think this might provide us with some golden nuggets of research at a low cost."

The UCF students tried to drive through the two- by three-block city without damaging buildings and avoiding "fire" from insurgents in houses or alleys. Different levels of light simulated daytime and nighttime exercises, and some of the city's pieces were changed between experiments, so a civilian holding an anti-United States sign in one exercise could be a friend of the United States the following time.

Florian Jentsch, director of the UCF Team Performance Laboratory and the project's lead researcher, spent about $3,500 on materials for the city, which takes up an entire room. Many of the items, such as the pipe cleaners and toy construction workers repainted to look like civilians, were purchased at department stores. Jentsch bought some military vehicles on eBay. He and a few students painted and built the homes, trees and other parts of the city in their spare time.

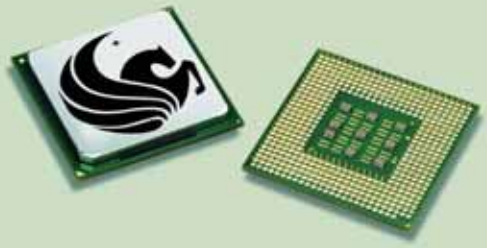
The total cost of the research project, funded by the Army Research Office and Army Research Development & Engineering Command, is about $87,000. It would cost hundreds of thousands of dollars more to update computer simulation programs to handle the experiments, Jentsch said, and it's also more lifelike for the students to be using actual remote-controlled vehicles.

"We are doing something here that gives us elements of realism at an incredibly low price and that is scientifically valid," Jentsch said.



Model military vehicles, left foreground, use tiny cameras to explore streets in a model Iraqi city. Students sitting in the next room guide the vehicles through the city based on the images they see on a television screen.

This resident of the model city is based on the photo of a real insurgent, down to the color of the shirt.



GAMBLING ON SUCCESS

UCF grads hit the jackpot with innovative wireless technology

BY JUDY CREEL

Time is an interesting phenomenon. Sometimes it flies by, like when you're out having fun, slipping quarters into a slot machine, hoping to hit it big.

Sometimes, minutes drag on forever, like when you pull the handle on that slot machine, watch the dials spin and suddenly they land on 7, 7, 7. You're a winner! Then comes the wait. It seems like hours until the casino attendant comes over to collect your information. Then he goes back to a central terminal to type the information in, heads over to the "cage" to get the money, and finally brings it back to you. Meanwhile, the casino is losing money every minute the slot machine is out of play.

Siblings John, '92, Elizabeth, '90, and Paul Lambrides have created an innovative solution using wireless technology to speed up the process. With their LightningWare Jackpot system, the wait time for jackpot winners has been shortened from an average of four to six minutes down to a minute and a half. They took the labor-intensive system described above and wrote specialized software for a wireless handheld device. Time — and money — savings like these could have a tremendous impact on the gaming industry, which generates $30 billion a year in revenues worldwide.

The trio field-tested their wireless jackpot processing system for the first time this summer at the Turtle Creek Casino in northwestern Michigan, an 1,800-slot-machine casino operated by the Traverse Bay Band of Chippewa Native Americans. Casino attendants carried the device, along with a small belt-mounted printer and a money pouch.

"They went up to each winning guest, got their information, processed everything right on the spot, paid the guest their money and printed out a receipt," explained John Lambrides. "Guests had their money and the machines were back up and running in seconds."

The wireless jackpot processing system is the first product for LCI, the company the Lambrideses formed in 2001. The siblings plan to develop a suite of LightningWare wireless applications using leading-edge technology to improve customer service and increase productivity in casinos.

Elizabeth, John and Paul each bring a particular expertise to the venture.

Elizabeth earned degrees in liberal studies and computer science at UCF and is a gaming industry professional who spent a decade working for Bally Systems. Over the years, she worked with the systems and procedures of more than 40 different casinos, giving her a unique perspective on gaming operations and customer service and creating valuable contacts in the industry.

Her younger brother, John, followed Elizabeth to UCF and earned an electrical engineering degree. After working in research and development for a medical laser company and various other engineering jobs, John went into engineering sales, bridging the gap between the engineers who designed products and the people who used them. He worked for a manufacturer selling parts to the Ericsson cell phone company, and later worked for Ericsson itself, becoming an expert in wireless technology.

John, '92, and Elizabeth, '90, Lambrides have found their niche in the gaming industry.

"A few years ago, Elizabeth became fascinated by some of the cool projects I was working on and how wireless data was evolving," said John. "She had a great idea and said 'we need this in the gaming industry.' She was right. A mobile set of employees covering a large area needs access to information on the spot. Elizabeth asked a couple of executives at her company about her idea, and they said 'absolutely — wireless needs to come to our industry.'"

The two joined forces with their older brother, Paul, a University of Florida graduate who brings 25 years of experience in software development including large-scale systems projects for companies such as PriceWaterhouse, Citibank, McDonald's and Marriott.

Together they've created an innovative technology that is designed to increase productivity through improved performance in the gaming industry across the country and eventually across the globe. Plans are already in the works to take LCI's technology to casinos in Europe. Based in Central Florida, LCI also intends to expand locally, with hopes of hiring talented UCF graduates.

EA Sports' *NASCAR 2005: Chase for the Cup* is just one of many games produced at its Central Florida Tiburon Studios.

IN THE GAME

UCF will train students as video game developers for the local workforce

BY JACK ROTH, '94

Creating a digital media "cluster" or "hub" in Central Florida has become a major goal of regional entities that foster growth in the community. UCF, the Metro Orlando Economic Development Commission (EDC) and the Florida High Tech Corridor Council have all committed to attracting and growing the digital media industry and its supporting workforce.

Digital media encompasses four major areas including film and digital production; theme park ride and show; modeling, simulation and training; and interactive entertainment (video gaming). According to Charlie Sloan, executive vice president of the EDC, Central Florida is one of the few regions where the convergence of these technologies has taken place successfully and is positioned in the heart of one of the top 12 clusters for digital media in the country.

UCF represents a vital component in creating a region where "like" companies feel comfortable and secure in their future growth and success. As a burgeoning metropolitan research university, UCF has developed a reputation as a strong facilitator and partner in an effort to help businesses prosper, and businesses have taken notice.

Electronic Arts (EA), the California-based interactive entertainment software giant, is planning on rapid video gaming growth, and it wants to expand its EA Sports division's Tiburon Studios, located in Maitland, to meet an anticipated explosion in demand.

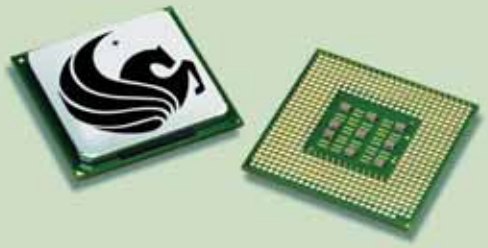
EA Sports, which recently came out with versions of the highly popular 2005 Madden NFL and NASCAR games, is expected to create almost 800 new, high-paying jobs in Central Florida, and it has asked UCF to develop a program to train the workers.

"UCF's partnership with the defense industry has been duly noted," said Ben Noel, vice president and studio COO of EA's Tiburon studio. "The school's commitment to become the greatest industry partnering university in the world also is very impressive."

MAKING THE CONNECTION

In 2003, EA executives contacted UCF through the EDC to ask how the university might increase output of students with appropriate skills for the video game industry. The bottom line: They wanted, and needed, more local talent.

"We knew we would need a major bump in skilled employees," said Noel. "Right now, 70 percent of our new hires are out-of-state, the relocation costs of which are significant."



EA SPORTS, WHICH RECENTLY CAME OUT WITH VERSIONS OF THE HIGHLY POPULAR 2005 MADDEN NFL AND NASCAR GAMES, IS EXPECTED TO CREATE ALMOST 800 NEW, HIGH-PAYING JOBS IN CENTRAL FLORIDA, AND IT HAS ASKED UCF TO DEVELOP A PROGRAM TO TRAIN THE WORKERS.

According to Edward Schons, director of University Economic Development, UCF understood EA's sense of frustration and urgency, but creating a program to meet the company's needs would require both innovation and cooperation. "The state Legislature and governor's office stepped up to help with funding," he said. "It got the ball rolling, and we are very grateful for that."

With input from EA, UCF created the Florida Interactive Entertainment Academy (FIEA) in the College of Arts and Sciences. The academy, whose name may change, will fall under the auspices of the film and digital media area and will provide a postgraduate certificate program that trains students to design, program and test video games.

"We needed to develop a postgraduate finishing school for students so they could get the right skill mix required to work in this industry," said Mike Moshell, head of UCF's digital media division of the School of Film and Digital Media. "The postgraduate idea depends on an elite pool of students, but UCF has the infrastructure to make it work."

BUILDING A WORKFORCE

The FIEA, which is slated to open in fall 2005, will be funded largely with a $4.2 million grant in the state budget that Gov. Jeb Bush signed on May 28. The facility will be located in downtown Orlando and should produce about 100 graduates a year. Students, who are required to have undergraduate degrees in fields such as computer science, art or digital media before enrolling, can complete the program in about 16 months.

Moshell said students will be part of production teams during their studies at UCF and will work with faculty experienced in software design, production, art and a variety of other fields. Students will study for about 60 hours a week, including about 40 hours of lab work.

EA also will help create the curriculum for the new academy and will offer internships for UCF students and faculty. Some of the software company's employees will help teach classes at the new academy. "This represents a consistent pipeline for a highly skilled labor force," Noel added, "and we want to do everything we can to expedite that."

COMMUNITY IMPACT

The FIEA will not only help EA, but it will also help the community by bringing qualified talent to companies in Central Florida, while also serving as a draw to other digital media companies considering relocating their offices to Central Florida.

"This solidifies the region as a major hub for digital media," said Randy Berridge, president of the Florida High Tech Corridor Council, a joint initiative

between UCF and the University of South Florida. "UCF's ability to listen to the needs of companies and respond, with help from other community partners, is what makes endeavors like this work."

The video game industry is unique in that it requires a mixture of talents in computer science, engineering, film and arts and graphics. It's very much like making a movie, so it requires very sharp engineers, graphic artists and production people who know to how to manage. Instead of teaching students simply how to use an art program, the FIEA will train them to create a project, manage the project and build prototypes.

"We have the foundation of a solid inter-disciplinary curriculum, and EA wants this combination of artists and tech people," said Moshell. "Growing your own employees like this is a win-win for everyone involved. It helps the company and enhances the regional workforce at the same time."

EA's Noel agrees that the program will not only benefit his company, but the community as a whole. "It's extremely important for local businesses to develop better relationships with local universities, and this will help facilitate that," he said. "In the end, this helps build a creative and technical culture base where people want to live."

Moshell expects this partnership with EA to raise the public perception about Orlando and the importance the region places on attracting companies who in turn attract high-wage, creative people to Central Florida.

"For both Central Florida and UCF, the most important companies are the ones that don't exist yet," said Moshell. "With the help of partnerships such as this one, those companies have a better chance of being born and thriving in our community."

It's a solid infrastructure of a community, said Schons, that makes a company want to relocate or expand to it. "UCF's role in this infrastructure is paramount," he added. "It's a metropolitan university that can make things happen, and that excites companies."

Berridge hopes that UCF's academy will convince the software giant to expand its Central Florida operations from 300 to nearly 1,200 employees at an average salary of nearly $80,000. "We're enabling them to make these choices and expand," he said. "This is world-class responsive, and it's the message we need to send to other companies."

TELLING STATISTICS AND PROJECTIONS

The rapid growth of interactive entertainment has facilitated this recent collaboration between Electronic Arts, UCF and various regional organizations whose job it is to help facilitate economic growth in Central Florida.

The following statistics and projections are encouraging indicators that Central Florida's effort to become a vital region in the digital media arena is well-founded.

- According to the Entertainment Software Association, U.S. computer and video game software sales grew eight percent in 2003 to $7 billion — a more than doubling of industry software sales since 1996. In four years, it will climb to more than $15 million — which equals 15 percent annual growth.

- In 2003, more than 239 million computer and video games were sold, or almost two games for every household in America. Half of all Americans age six and older play computer and video games.

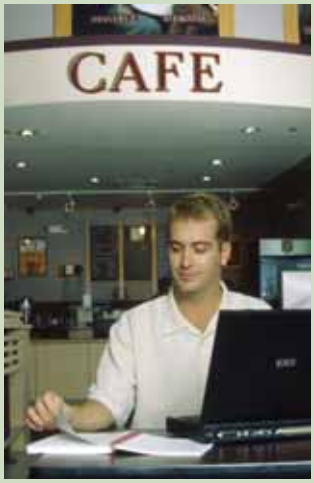
- A recently released report by PriceWaterhouseCoopers states that the U.S. video-game market is about 30 percent smaller than the theme park and amusement park market, but that within four years this will change. Healthy, double-digit growth in video games will outdo single-digit growth in the attractions industry, leaving the game market about 25 percent larger.

- The worldwide video-game market — including hardware and software — will more than double in four years to $55.6 billion.

GLOBAL CLASSROOM

Web technology allows UCF students to learn online as well as on campus

BY ELISA CARRENO



A phenomenon known as the internet began about 35 years ago when a couple of scientists decided to link two computers with a gray cable. They experimented with exchanging data and the outcome changed life as we know it. In the late 1970s, e-mail, the internet's most popular application, was invented. Once these components became commonplace, universities were able to launch online classes.

UCF created its first online course in 1996. Today, Online@UCF offers six undergraduate degree completion programs, seven graduate certificate programs, eight graduate degree programs and more than 200 courses online every semester. UCF isn't stopping there. According to Peg Miller, coordinator of student academic support for UCF's Center for Distributed Learning, "There are four programs under development that should be in place in the next academic year."

Participation in the courses has soared. "In spring 2004, UCF offered 204 sections of fully online courses with total registrations of 8,650," Miller said. "During this term, 6,730 or 16.7 percent of UCF's [then enrolled] 40,246 students were registered in online classes."

The ongoing popularity of online classes springs from their benefits. Students can learn in the privacy of their own residences at their own pace. Of course, the overall convenience factor is a major appeal. Senior Shawna Lewis has completed several criminal justice classes online. "It's just easier to take online classes then having to deal with the hustle and bustle of on-campus traffic," Lewis said. "I don't have to worry about completing assignments in a hurry because online class assignments are so structured."

Vanessa Stocki, a junior who took American government online, agrees with Lewis, "I was always stressed out, running from class to class, but now I just turn on my computer, do my homework, and essentially my school day is over. They [online classes] make my overly stressed life simpler and, in a sense, keep me sane."

Although online classes provide convenience, the workload is the same if not greater than in traditional classes. "Just because I take online classes doesn't mean that the work is simple or easy," Lewis said.

Karen Cox, coordinator for UCF Academic Support Services, added: "Students have to be very disciplined and have good study skills. They have to be able to handle technology and the glitches that come with it."

Along with traditional full-time students like Lewis and Stocki, many non-traditional students, such as older students returning to college or those who live far from campus, benefit from online classes.

Students not only can take individual classes online, but they can earn degrees as well. Cox, who is a part of the Liberal Studies Advising Team, explained the method in which students can receive a bachelor's degree in liberal studies online. "The program is comprised of a minor and two areas of study, and no overlap," she said. "Minors available on the Web [include] behavioral and social sciences, criminal justice, education, health services, psychology, public affairs, sociology and vocational education."

If a student wants to pursue a master's degree in one of eight graduate programs, he or she can do so over the Web. The new master's in nonprofit management program, for example, is one of only two such programs offered in the United States.

While some online students miss the face-to-face interaction of a traditional class, those used to communicating via e-mail may feel right at home in the environment. "It features individualized combinations of studies that provide academic flexibility," said Cox. "Online classes are effective and convenient."

For more information about online classes or degree programs, visit www.online.ucf.edu.

Don't Get Hooked By "Phishing"

Ways to avoid this electronic fraud and identity theft scam

BY CHARLIE LAI, '95

Internet scammers casting about for people's financial information have a new way to lure unsuspecting victims: they go "Phishing."

Phishing is a high-tech scam that uses spam (unsolicited, unwanted e-mail) or pop-up messages to deceive you into disclosing your credit card numbers, bank account information, Social Security number, passwords, or other sensitive information. These scammers use very realistic bait — counterfeit versions of Web sites or e-mail that you use every day.

Here's how phishing works. You receive an e-mail or pop-up message that claims to be from a business or organization that you might normally deal with — for example, your bank, online payment service, Internet service provider (ISP), or even a government agency. The message usually says that you need to "update" or "validate" your account information. It might threaten some dire consequence if you don't immediately respond. The message directs you to a Web site that looks just like a legitimate organization's site, but it isn't.

The purpose of the bogus site? To trick you into divulging your personal information so the operators can steal your identity and run up bills or commit fraud in your name.

The following tips can help you avoid getting hooked by phishing scams:

- If you get an e-mail or pop-up message that asks for personal or financial information, do not reply or click on the link in the message. Legitimate companies don't ask for this information via e-mail. If you are concerned about your account, contact the organization in the e-mail using a telephone number you know to be genuine, or open a new Internet browser session and type in the company's correct Web address. In any case, don't cut and paste the link in the message.

- Never e-mail personal or financial information. E-mail is not a secure method of transmitting personal information. If you initiate a transaction and want to provide your personal or financial information through an organization's Web site, look for indicators that the site is secure, like a lock icon on the browser's status bar or a URL for a Web site that begins "https:" (the "s" stands for "secure"). Unfortunately, no indicator is foolproof; some phishers have forged security icons.

- Review credit card and bank account statements as soon as you receive them to determine whether there are any unauthorized charges. If your statement is late by more than a couple of days, call your credit card company or bank to confirm your billing address and account balances.

- Use anti-virus software and keep it up to date. Some phishing e-mails contain software that can harm your computer or track your activities on the Internet without your knowledge. Anti-virus software and a firewall can protect you from inadvertently accepting such unwanted files. Anti-virus software scans incoming communications for troublesome files. Look for anti-virus software that recognizes current viruses as well as older ones, that can effectively reverse the damage, and that updates automatically.

- A firewall helps make you invisible on the Internet and blocks all communications from unauthorized sources. It's especially important to run a firewall if you have a broadband connection. Finally, your operating system (like Windows or Linux) may offer free software "patches" to close holes in the system that hackers or phishers could exploit.

- Be cautious about opening any attachment or downloading any files from e-mails you receive, regardless of who sent them.

- Report suspicious activity to the Federal Trade Commission, the nation's consumer protection agency. If you get spam that is phishing for information, forward it to spam@uce.gov. If you believe you've been scammed, file your complaint at www.ftc.gov, and then visit the FTC's identity theft Web site at www.consumer.gov/idtheft to learn how to minimize your risk of damage from ID theft. Visit www.ftc.gov/spam to learn other ways to avoid e-mail scams and deal with deceptive spam.

- View the Anti-Phishing Working Group's Web site at http://www.antiphishing.org/. This site contains an archive of hundreds of phishing examples.

Web sites like these can help you learn to avoid electronic crime.

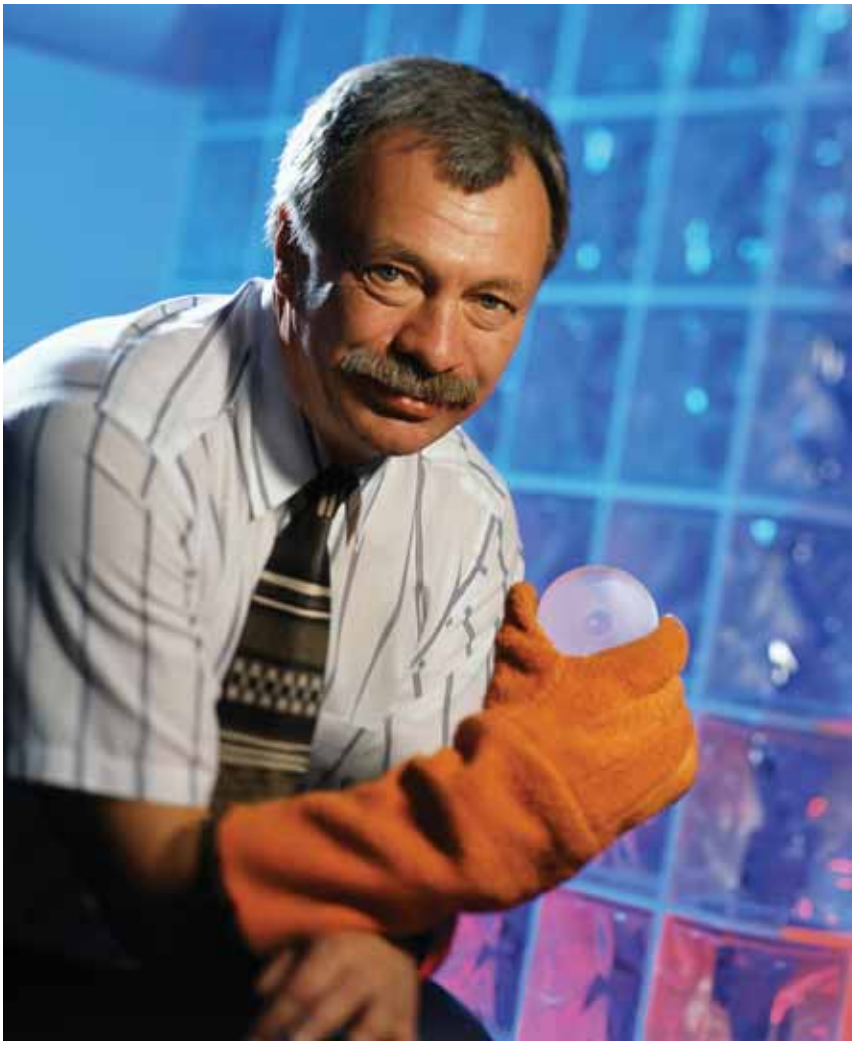
FAIRWINDS CREDIT UNION

Financial Focus **is published in conjunction with an educational partnership between the UCF Alumni Association and *FAIRWINDS* Credit Union.**

A Glass Act

Specialized glass tells tale of technology transfer, turning ideas into products

BY BARB ABNEY



Leon Glebov holds a piece of specialized glass made at UCF's College of Optics & Photonics: Center for Research and Education in Optics and Lasers (CREOL) and Florida Photonics Center of Excellence (FPCE).

For Leon and Larissa Glebov, technology transfer boils down to one of the most common yet most powerful materials on the earth — glass.

The Glebovs, scientists at UCF's College of Optics and Photonics: Center for Research and Education in Optics and Lasers (CREOL) and Florida Photonics Center of Excellence (FPCE), have spent their careers studying the composition and characteristics of glass and how it interacts with light.

Expertise developed at the renowned Vavilov State Optical Institute of St. Petersburg in Russia and refined during their years at UCF has led to their development of a method of writing microscopic holograms or pathways into glass that can direct light to perform specific functions.

Their work not only "provides an elegant solution to a problem," says Gordon Hogan of the Central Florida Innovation Corporation, who has worked with Leon Glebov on commercializing the technology for the past six years, it is also a prime example of the many stages involved in transferring university technology to the marketplace.

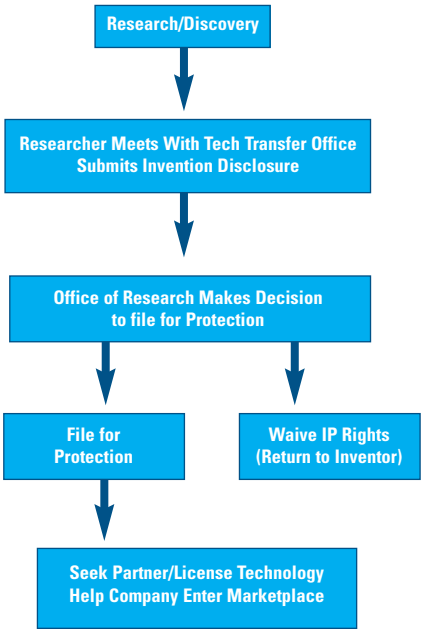
Leon Glebov, who had served as director of the Vavilov Institute during the tumultuous period prior to the dissolution of the USSR, was recruited to UCF in 1995 by M.J. Soileau, current vice president for research who at that time was director of CREOL. At the time Glebov was participating in the U.S. government-funded program on transitioning from a state economy to a market economy and he decided he liked the market economy model enough to stay in the U.S. His wife Larissa joined him later that year.

Glebov began working with Hogan shortly after his arrival at UCF and attended Success Solutions seminars sponsored by CFIC for emerging companies.

In 1996, several CREOL researchers including Glebov received a grant from the Ballistic Missiles Defense Agency (BMDA) for development of holographic optical elements based on a photosensitive glass. In 1999, in partnership with the Raytheon Corporation, he was awarded a grant from the Defense Advanced Research Projects Agency (DARPA) for work to eliminate slow, heavy gimbals used in target recognition systems and replace them with compact, electronically controlled laser beam steering components. He also began work on DARPA's Terahertz for Operational Reachback (THOR) project to link military platforms using optical communications.

That same year Glebov applied to UCF's Technology Incubator and was granted office space for his new company, Light Processing Technologies, which set to work on commercializing the technologies developed for DARPA. The Glebovs and researcher Vadim Smirnov ran the company and conducted the research. UCF entered into an equity partnership with the company for an exclusive license of the core

How Tech Transfer Works



technology, meaning that UCF would be a true partner in this company.

The incubator helped Glebov develop business skills that would complement his technical skills and help the company reach its full potential.

UCF's Office of Research began working with the company to advance the research and identify funding sources. The company was able to secure three Phase I Small Business Innovative Research grants, and LPT partnered with the university to conduct the research. Next the university partnered again with the company to secure a Phase II award, which provides up to $1.5 million in funding. The Florida High Tech Corridor Council provided match funds for the project, allowing LPT to apply for a "Fast Track" SBIR Phase II award which was awarded and gave the company the funding to get it started in earnest.

The Office of Technology Transfer began working with the company to help develop an overall strategy for the commercialization of the research results. Issues such as how to build a strong patent portfolio around the technology, how to structure the company, who should run it, what would be the best approach to market the technology, and much more were addressed.

Technology transfer is the process that transitions research generated in a laboratory to the marketplace where it can be used in commercial applications.

The Glebovs and Smirnov knew they had a marketable product, both because of the unprecedented quality of glass they create and their ability to write holograms directly into the glass.

Hogan concurred. The current process industry uses to write holograms is convoluted and expensive.

The hologram provides a pathway and direction for the light beams that pass through it, and, in the case of the Globovs' and Smirnov's work, can actually change some of the properties of the light.

HOLOGRAMS TO MARKET

While most consumers recognize holograms from the reflective logos on their credit cards, few are aware of the amount of data contained in the image they see. Holograms are basically mini warehouses full of information on the size, shape and brightness of the object being recorded. Laser light is used to record the data and incoming light unlocks the image for the viewer.

Holograms make it possible to control laser beams and store large amounts of data and have archival potential superior to books, compact discs and photographic film.

They can also be utilized in a variety of commercial applications including cutting, welding, and drilling processes in the automotive, aerospace and ship industries.

The first few years of LPT's operation coincided with the telecom bust of the late nineties and the company felt the effects of a drop in funding for fiber optic communications. Earlier this year, the Glebovs and Smirnov decided to pursue new management for the company, to allow them to concentrate on the technical side of the work

Jean Luc Nogues, who had previously served as president and CEO of another technology start-up incubator company, Geltech-Tech, and who was well versed in the challenges of commercializing photonics technology, was named president and CEO. Todd Childress, who has served as a financial officer for firms ranging from Fortune 500 to private start-up and public accounting, was named chief financial officer.

Nogues and Childress plan to focus on licensing marketing the Glebovs' technology to the semiconductor laser industry. They have already secured two Small Business Technology Transfer grants totaling $1.5 million to develop prototypes that can then be presented to industry and potential investors.

"We are working on turning the technology into products — this is where we want to be," said Nogues.

That's the ultimate goal of research and commercialization efforts at UCF, said Thomas O'Neal, executive director of the UCF Technology Incubator and associate director of UCF's Office of Research.

"It's one big circle," he said. "We help these companies get started, they generate income for Central Florida, give local people jobs and help lure other high-tech companies to the area."

For the Glebovs and their new company, the future is bright indeed.

Tech Watch **is produced in partnership with the UCF Office of Research, the UCF Technology Incubator and the Metro Orlando Economic Development Commission.**

UNIVERSITY OF CENTRAL FLORIDA
OFFICE OF RESEARCH

UNIVERSITY OF CENTRAL FLORIDA
TECHNOLOGY INCUBATOR

Metro Orlando ECONOMIC DEVELOPMENT COMMISSION

TECH WATCH PARTNERS:

UCF Office of Research
www.research.ucf.edu

UCF Technology Incubator
www.incubator.ucf.edu

Metro Orlando EDC
www.OrlandoEDC.com

Pegasus

Hoop Scoop

Basketball Golden Knights are not resting on their laurels of last season's success

BY SCOTT WALLIN, '87

Starters Gary Johnson and Marcus Avant return as seniors this season, ready to lead the team to victory.

Coach Kirk Speraw has a pretty good idea of what last season's success will get him this year.

Nothing.

"Last year is last year and I don't know how much it really has to do with this year because it's different people and a different type of chemistry," Speraw said. "Probably the only thing that's relevant about last year is that everybody in our league is going to come after us with a little more aggression and a little more purpose."

Such will be life after a 25-6 season that included an Atlantic Sun Tournament championship and a berth to the NCAA Tournament. Gone from that team, however, are UCF's top three scorers and rebounders, but it isn't as though Speraw is left entirely empty-handed.

Starters Gary Johnson and Marcus Avant return as seniors and will join promising signees Anthony Williams, Marcus Johnson and Justin Rose. Williams and Johnson are junior college transfers who look to fill the void along UCF's frontline. Rose is a 6-foot-2 point guard who also comes from a successful junior college background.

The challenge for all players — newcomers and returnees — will be developing a chemistry that Speraw says was really the underlying reason for last year's run of success.

"We had such great chemistry and we'll be trying to figure out a way, with new people and new personalities, to maintain the great chemistry and camaraderie that we had from last year's team. That was a huge part of our success," Speraw said. "It wasn't because we were more talented; it was because we played better together than other people. That's going to be a huge challenge to try and duplicate."

Whether Williams, Johnson and Rose can replace the void created by the graduation of Josh Bodden, '04, Dexter Lyons, '04, and Roberto Morentin, '04, remains to be seen. Speraw likes their skill levels but wants to see how they react to a whole new level of play.

"They haven't played Division I basketball yet so it's going to take a while for them to adjust to the new demands, the increase in talent level and the increase in intensity," Speraw said. "But I think they're excited and looking forward to stepping up to the challenge."

Speraw isn't stopping there for solutions. He has returnees such as Troy Lindbeck, Kingsley Edwards, Joshua Peppers and Will Bakanowsky who also can make their marks — if they're ready.

"They've got to make that adjustment and fill a void maybe from a rebounding standpoint or a defensive stopper or scoring," Speraw said. "We have a lot of holes that we need to fill and some people are going to have to step up to that challenge to fill the voids.

"We'll have to respond to that intensity level that's going to come at us. I don't know if our guys will fully appreciate that until we get into the heart of the conference schedule."

Lady Knights look promising

Celeste Hudson

UCF women's basketball coach Gail Striegler knows exactly what she has in this year's team.

"All of the starters are returning," she said. "We lost one senior last year but she was the sixth man off the bench. We have a lot of talented kids but need to get them healthy and ready to go."

UCF, the two-time defending Atlantic Sun regular-season champion, came within a basket of advancing to the NCAAs last season. Riding a nine-game win streak into the conference championship game, UCF fell 64-62 to Lipscomb.

UCF (17-13, 14-6) will look to players such as junior guard Celeste Hudson to get back to the A-Sun championship. Hudson started 26 games last year and earned all-conference first-team honors. In her two seasons, she already has set five career marks, including most three-point field goals made.

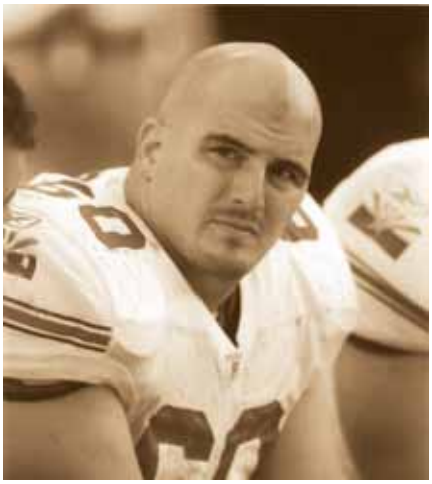
She will be joined by center Ali Roberts, a senior who started all 30 games in 2003-04. Roberts holds UCF records for most blocked shots and best rebounding average.

Athletics Hall of Fame

Four UCF standouts accept accolades from their alma mater

BY SCOTT WALLIN, '87

Mike Gruttadauria, Men's Football, 1991-94



You almost expect someone to emerge at any moment with a script for the "Mike Gruttadauria Story." It would be a "long-shot-to-riches" tale that highlights the life and times of the former UCF football player.

The synopsis goes something like this: high school senior finally tries out for the football team ... shows great athleticism with a tall body that has room to grow ... signs with UCF where he grows into that body ... become's one of the school's best linemen ever ... gets an NFL free agent tryout ... plays nine years in the league ... wins a Super Bowl.

It's a feel-good journey, one Gruttadauria doesn't tire of sharing for the sake of inspiration.

"I had the things you can't measure, like hard work and a great will and heart to succeed," Gruttadauria said. "By no means am I an isolated case. There are many guys in the NFL who've had great storybook careers and some who were even more against the odds, but I hope my story inspires some of the up-and-coming athletes at UCF.

"They can say 'look at this guy: undersized, only played one year of high school ball, was able to put his mind to it to not only succeed in the NFL winning championships but is now at the pinnacle of being asked to join the UCF Hall of Fame."

Gruttadauria is one of four members of UCF's seventh Hall of Fame class, joining Tyra Harper, '98, (volleyball), Heikki Ritvanen, '01, (mens soccer) and Ken Leeks (mens basketball). The group was inducted during an Oct. 8 ceremony.

Though Gruttadauria's career was shortened by injuries with Arizona, the tone in his voice tells you he already has experienced plenty of happy endings. He and his wife have 4-year-old twins — a boy and a girl — and they just put the finishing touches on what Gruttadauria calls their "dream house" in Sarasota.

Right now, life consists of a different sort of playtime than Gruttadauria was accustomed to after banging heads with opposing NFL linemen.

"We have a great time watching them grow and playing with them in the backyard and taking them swimming," he says of his kids. "Right now, that keeps me busy and I love doing it."

Gruttadauria says it was difficult retiring early, but it wasn't so much letting go of the game as it was leaving the camaraderie. But don't count on Gruttadauria, who won a Super Bowl with St. Louis in 2000, to let this void consume him. He has too many other goals, starting with throwing himself into his art career.

A former UCF art major, Gruttadauria has done bronze sculptures for teammates and coaches. His ultimate work, though, may one day reside on UCF's campus in front of the new football offices. Gruttadauria has a concept of a Knight in battle pose, adorned in gear, cape flowing in wind, "totally ripped, obviously, just like all the UCF athletes are."

He has approached UCF officials about producing this piece free of charge, doing it out of love for his alma mater.

"It means more to me as a former athlete to have my piece in front of the athletic department building than to make money on it," he said. "It means more to me to have my name signed on the bottom in bronze in front of the building where I helped lay a foundation."

Heikki Ritvanen, Men's Soccer, 1996-99

The most prolific scorer in UCF men's soccer history now finds the back of the net from a pair of ice skates.

Heikki Ritvanen displayed a natural ability to score not long after he arrived at UCF from Finland, earning freshman all-American honors. He went on to amass 88 career goals, third highest total in NCAA history.

Now, it's a Dallas recreational ice hockey league that has the former soccer star near giddiness. He leads a team of Microsoft co-workers, acting as their "equipment manager, water boy, coach and team captain."

"My mom makes fun of me because when I lived in Finland, I was never interested in hockey," he said. "She said 'you're weird because you moved to Texas and you quit soccer and you started playing hockey.' I played soccer all my life. Why not try something else?"

Ritvanen says hockey provides a release for what can be a demanding career with Microsoft, where he's worked for three years. Ritvanen, who passed on playing professional soccer, is a technical lead for a group of trouble-shooters. His group manages several Fortune 500 accounts, providing solutions for when operations problems arise.

Ritvanen says he can handle the job pressure thanks to enduring four years of college soccer. He may not have realized it then, but his UCF playing days set a stage for success in the business world.

"Sometimes a client's production server gets in trouble where they could easily be losing $5,000 every hour," said Ritvanen, who earned a computer engineering degree. "It reminds me of the tough games in college. [Soccer] helps me to think under pressure because a lot of times, the situation is high pressure."

While he uses soccer as a tool, he doesn't use it to secure favoritism. Post-soccer anonymity is fine by him.

"It's something that's in my past but if it comes up, I'll tell people," Ritvanen said. "Otherwise, it's something that I am proud of but it doesn't change my relationship with them. I have my [UCF] jersey and all that so if people come over, they'll ask and then I'll tell them. But I'm not going to walk around and say 'look, here's this and this and this.' You don't build your personal skills and relationships on what you've done in your past."

But there is a place where he blows his cover and his true athleticism shines.

"The people who play hockey can tell I played soccer," he says. "I have the same kind of mentality when I play hockey. We have our fights every now and then."

Tyra Harper, Volleyball, 1994-97

Tyra Harper didn't understand what all the fuss was about. She was a freshman on UCF's volleyball team and watched as her senior teammates jumped for joy after earning a bid to the NCAA Tournament.

As Harper looked on, she thought "we always win. I don't get it."

Winning may have been routine for Harper but it certainly never got old. Harper joined a UCF program that redefined winning, defeating 65 consecutive conference opponents from 1993-98.

It was Harper's job to keep the momentum going when she signed with the Golden Knights out of Fort Myers. Once she took to the court, the streak was in good hands. And while it may have seemed easy, it was anything but.

"Every team was vying for us," Harper said. "We always felt on guard and that's difficult to play defending something all the time. It's easy to be

the underdog but we were always supposed to win."

Harper now is having the time of her life playing professionally on the Association of Volleyball Professionals beach tour. She and teammate Makare Wilson ranked eighth at the beginning of September. Her success, she says, is rooted to her days at UCF where she earned conference player of the year honors as a senior.

But she considers herself and teammates successful for managing school and volleyball.

"Playing collegiately and being good scholastically and keeping your goals together and keeping your schedule together, that's a true accomplishment," she said. "Going from my freshman year, my first semester, and being put on academic probation to going to my senior year with straight A's and being a scholar-athlete of the year was amazing to me."

Ken Leeks, Men's Basketball, 1988-92

About the only thing that would have given Ken Leeks this much adventure would have been a career in the Navy.

But Leeks has seen the world doing what he did best at UCF — playing basketball. Since leaving UCF, Leeks has played professionally in leagues based in Mexico, Portugal, Russia, Japan, Argentina, Venezuela and the Dominican Republic.

He's been living the life he dreamed of at 8 years old, when he nailed an old bicycle rim to a tree so he could shoot baskets.

Leeks has thrived as a pro for the same reasons he was a four-year standout at UCF: he's a polished scorer, rebounder and shot blocker. He led UCF in scoring and rebounding every year, finishing as the university's No. 3 all-time leading scorer (1,763). He also set career marks for most rebounds (942) and blocked shots (141).

Being the fifth men's basketball player elected to the Hall is an honor that isn't lost on Leeks.

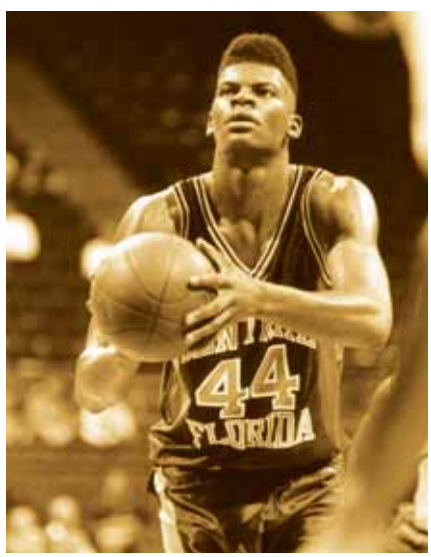
"Being inducted into the Hall of Fame crossed my mind but I never thought that I would be chosen," Leeks said via e-mail from Chili, where he recently signed to play.

"I love UCF and have watched it grow over the years. I knew that I made the right decision when I chose UCF and I spent four of the best years of my life there."

There are two memories of UCF that Leeks says he never will forget.

"One was playing in the Arena for the first time and scoring the first two points," he said. "The other is just walking from class to class across campus and realizing how beautiful it was.

"I feel so blessed to be inducted into the UCF Hall of Fame and I'm honored to have been put in the same category with all of those world-class athletes. The other hall-of-famers are amazing and I'm so happy to be recognized with them."



Special thanks go to Coca-Cola for sponsoring the 2004 UCF Athletics Hall of Fame Induction Ceremony as well as FX Scenery for donating the staging.

Donation Boosts UCF Research

$24 million gift will make UCF a leader in computer chip manufacturing research

BY CHAD BINETTE

UCF optics researchers and students are poised to become leaders in the next generation of computer chip manufacturing thanks to a $24 million donation of intellectual property, equipment and cash from Northrop Grumman Corporation.

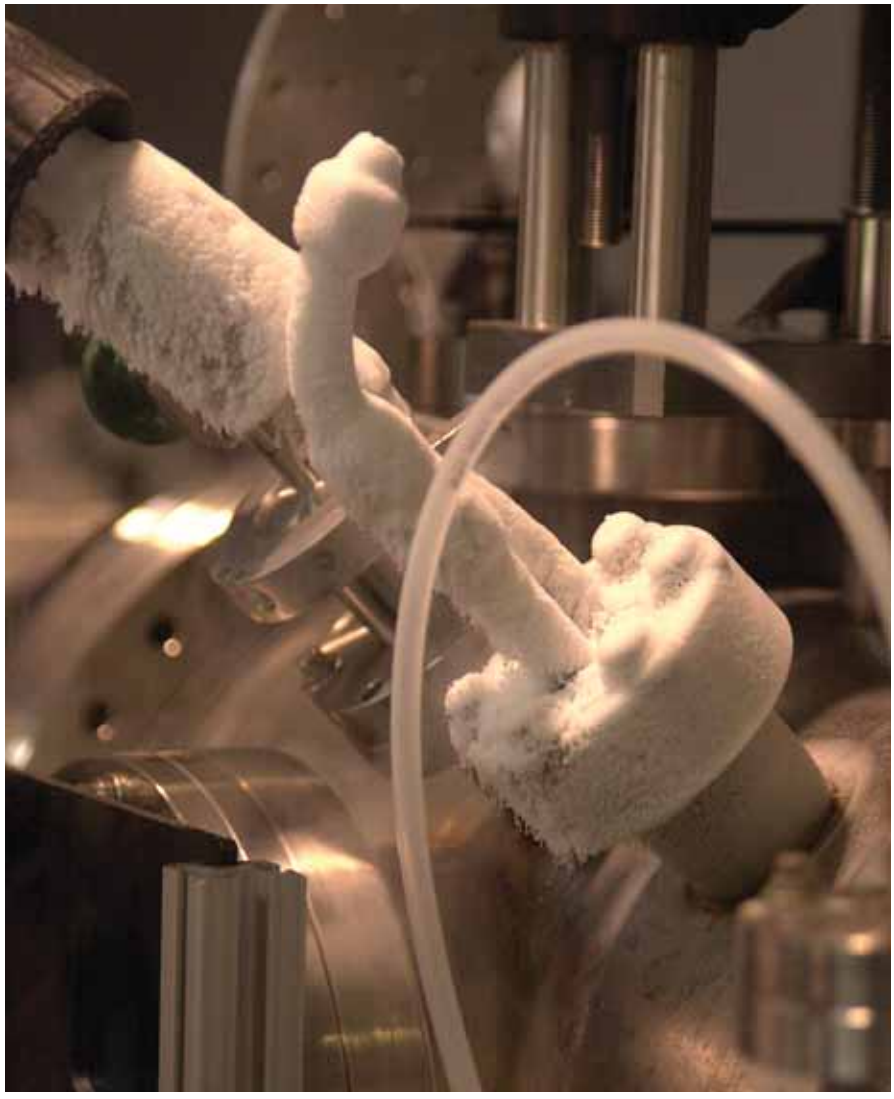
The largest donation in UCF history will boost the College of Optics and Photonics' research in extreme ultraviolet lithography, a process that computer chip manufacturers expect to begin using in about four years because it will allow for smaller, denser features to be imprinted on chips. UCF already is researching the shorter-wavelength light sources that will be used in extreme ultraviolet lithography.

"This now gives us a platform to train the future scientists and engineers who are going to be needed as this new form of lithography comes into being," said optics professor Martin Richardson, who will be the first Northrop Grumman Professor of X-Ray Photonics at UCF. "We can now broaden our optics program into a program of major impact in the extreme ultraviolet lithography field."

Northrop Grumman is contributing about $22 million in intellectual property, which includes patents and patent applications. The California-based company also is donating equipment worth about $2 million that will give UCF the latest technology in extreme ultraviolet optics and about $140,000 in cash to help pay for equipment maintenance and the professorship that Richardson will hold. The cash donation will be made over the next four years.

"We are pleased that Northrop Grumman recognizes UCF as a leader in optics and laser research," UCF President John Hitt said. "This generous donation will give students and faculty more opportunities to improve the chips that power our computers, and our university will be able to continue to develop new technology that we can transfer to our corporate partners."

Northrop Grumman executives praised the close relationship they have formed with the university and the College of Optics and Photonics over the years. The college houses the Center for Research and Education in Optics and Lasers, known as CREOL, and the Florida Photonics Center for Excellence, a state-funded center created in 2003 through which some of UCF's work in extreme ultraviolet lithography has been funded.



Professor Martin Richardson and graduate students in the College of Optics and Photonics will work with donated equipment that will broaden their research in extreme ultraviolet lithography, a process that manufacturers eventually will use to imprint computer chips.

UCF and Northrop Grumman have worked together on research related to lasers, communications systems and land mine detection systems. The company, which has two sectors with long-established operations in Central Florida, also has hired many UCF graduates.

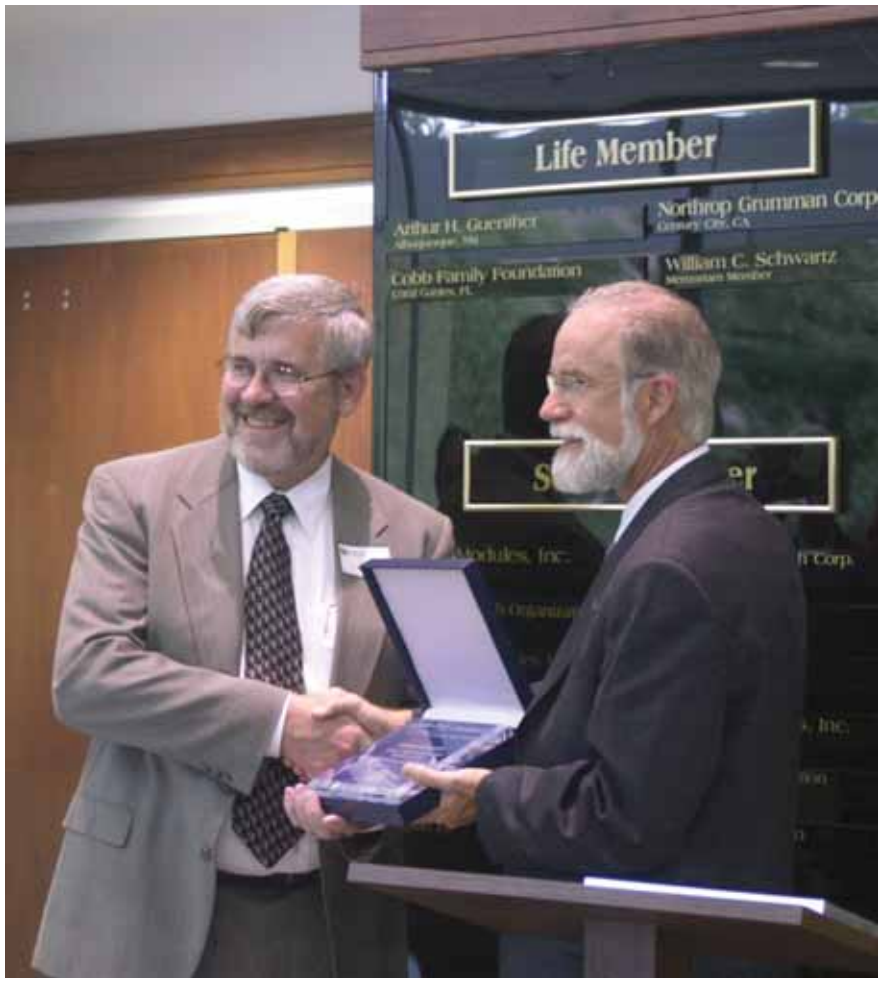
"As one of the country's premier educational research centers for optics and lasers, the university will leverage the intellectual property and equipment we are donating to continue expanding the boundaries of chip-mak-

ing processes," said Wes Bush, president of Northrop Grumman Space Technology, which made the donation. "Its work will help industry overcome existing limitations on chip density, enabling further leaps in computing power and storage capacity."

The computer chip industry continues to look for ways to shrink the size of laser-imprinted features in the silicon-wafer chips so they can become denser and more powerful. International Sematech, a group formed by the world's leading manufacturers of computer chips that also is a supporter of UCF's research, has predicted that extreme ultraviolet lithography will replace the current use of ultraviolet lasers to manufacture chips in about four years.

Extreme ultraviolet light has a shorter wavelength than ultraviolet light, which will allow manufacturers to imprint smaller features. In the 1970s, the smallest imprinted features were about 10 microns wide, or about one-tenth of the thickness of a human hair, Richardson said. Companies now imprint features as small as 100 nanometers, or a thousandth of the thickness of a human hair. Their goal through extreme ultraviolet lithography is to lower the smallest size of features to about 10 nanometers.

Northrop Grumman's donation, through the company's Space Technology Sector, includes 11 patents and 10 patent applications. The value of the intellectual property and equipment was set by an independent appraiser. In addition to naming a professorship after the firm, UCF will rename a lab in the CREOL building in Northrop Grumman's honor.



Eric Van Stryland (right), dean of the College of Optics and Photonics, adds Northrop Grumman's name to a plaque of industrial affiliates in the college's lobby. Northrop Grumman is a life member of the group.

The donation was the second multimillion-dollar gift that UCF accepted during the summer. Al and Nancy Burnett of Winter Park gave $10 million last month to help UCF establish the new Burnett College of Biomedical Sciences and construct a new building for biomedical researchers. That gift is eligible for $10 million of state matching funds. Watch for more about this new college in an upcoming issue of *Pegasus*.

Think Small

The ability of scientists to study and create materials at the smallest conceivable level is fueling a technological revolution with amazing possibilities. A nanometer is one-billionth of a meter (three to four atoms wide). By manipulating atoms individually and placing them exactly where they are needed to create a desired structure, nanotechnology is capable of producing tiny devices with extraordinary physical, chemical and mechanical properties. Targeted drug delivery, mechanized microsurgery and customized laser microchip development are among the nanotech applications already being explored.

Researchers say ultimately the prospect of building things on a molecular level will revolutionize the production of virtually every human-made object.

The work of using extreme ultraviolet optics to make smaller, more dense computer chips is just one of the many ways UCF is meeting the challenges of nanotechnology.

Quiet Generosity Lives On

Alvin Lampp's scholarship fund helps students working their way through school

BY HAL REED

Alvin Lampp (right) talks with former UCF Foundation Board member Fred Leonhardt at the 2001 Charles Millican Society reception at the Burnett House, home of UCF President John Hitt.

Alvin Lampp was not a college graduate himself, but as a successful businessman he knew the importance of a degree, both in terms of the knowledge gained in achieving it and the doors it opened when seeking employment.

Lampp, who died in February at the age of 89, also knew the value of a helping hand. As a young man starting out in the business world, he received assistance — both financially and in terms of advice — from several along the way. Twelve years ago, Lampp and his wife Elizabeth established the Lampp Scholarship Fund with the UCF Foundation as a way to help deserving students and to pass along the spirit of giving he had learned from others earlier in his life. This endowed fund permanently provides scholarships to students who are working their way through college. More than 50 students have benefited from the generosity of Alvin and Elizabeth Lampp.

Through his estate plans, Lampp also established provisions that added to the important work of the Lampp Scholarship Fund. Not long after his death, a major contribution was distributed to the fund from a living trust created during his lifetime. In addition, he and Mrs. Lampp also set up a charitable remainder trust, which provides lifetime income to the donors and will distribute another major gift to their endowed scholarship fund when it terminates. Mrs. Lampp also has long been interested in the education of students and her support was instrumental in establishing programs and facilities to benefit international students studying at UCF.

The generosity of Alvin and Elizabeth Lampp has helped to make a college education a reality for students who might otherwise not have achieved it. Theirs has been a quiet generosity. Their reward has been in knowing their philanthropy will continue to ease the path for many students and, as a result, make the world a little better place.

Hal Reed is the director of planned giving at the UCF Foundation, Inc.

How to Include UCF in Your Will or Trust

Legal counsel should always be sought when drafting a will, trust or other document affecting one's estate or financial plan. The following represents sample language for a simple unrestricted bequest.

I give, devise and bequeath to the University of Central Florida Foundation, Inc., Orlando, Florida, a not-for-profit corporation as described in section 501(c)(3) of the Internal Revenue Code:

(Select one)

a. _____% of my residuary estate

b. the sum of $_____

c. (describe property), to be used by the Board of Directors as it deems appropriate.

If you wish to designate a bequest for a particular college, department or purpose at UCF, contact the director of planned giving at the UCF Foundation, Inc. by calling (407) 882-1266.

Pegasus

Pegasus

Newest Knights

1| **James Matthews, '74** (business administration), and his wife **Yvonne (Perrine), '74** (physical education), **'80** (master's, education administration and supervision), became grandparents with the birth of Madison Angelyn Vazquez on Sept. 15. Madison's parents are Jayme and Angel Vazquez. Jim works in the Production Operations Business Aministration Department at Lockheed Martin Missiles and Fire Control and has been with the company for 23 years. Yvonne just began her 31st year as a teacher and is teaching math at Horizon Middle School in Kissimmee. Jim and Yvonne were married a week after graduation and celebrated their 30th anniversary on Aug. 30.

2| **David Derrenbacker, '86** (journalism), and his wife Stacey announced the birth of their son Kyle James on Jan. 29. Kyle joins his sisters Jenna, 5, and Emily, 3. The family lives in Stuart, FL, and can be contacted at Knights86@aol.com.

Ashok Arora, '90 (hospitality management), and his wife Sapna announced the birth of their son Kabir on June 23. Kabir has an older brother named Maher. The Arora family resides in London.

3| **Trisha (Gay) Paster, '94** (elementary education), **'99** (master's, elementary education), and her husband, **Matt, '00** (anthropology), announced the birth of Harrison Lennon on June 10, 2003. The Paster family lives in Orlando.

4| **Heather (Kiner) Gross, '95** (accounting), **'96** (master's, taxation), and her husband Scott announced the birth of their son Seth Michael on July 10. The family lives in Fishers, IN, and can be contacted at heather.gross@insightbb.com.

5| **April (Fadely) Kaiser, '95** (speech), announced the birth of her daughter Ryan Michelle on May 18. Ryan is welcomed by her older sister, Reagan.

Natalia (Schroth) Parrish, '95 (marketing), and her husband, **James, '02** (MIS), announced the birth of their son Brendan James on Aug. 20. Brendan has an older sister, Kaitlyn Marie. The family lives in Winter Garden. They can be contacted at james@theparrishs.com.

Kenneth Zagers, '95 (civil engineering), **'98** (master's, civil engineering), and his wife Kelley announced the birth of their first child, Kyle Stephen, on July 13. Kenneth works as a structural engineer at PBS&J in Orlando. The family lives in Apopka and can be contacted at kzagers@cfl.rr.com.

6| **Shane Moore, '97** (history), and his wife **Brandy (Gaines), '97** (organizational communication), announced the birth of Dawson, their first child, on March 12. The Moore family lives in Orlando.

7| **Miguel Casiano, '03** (criminal justice), and his wife Kristy announced the birth of their son Mason on April 16. Big sister Kaylee, born on Feb. 21, 2003, welcomed the new addition with open arms.

8| **Duke Derdock, '03** (MIS), and his wife Yvonne announced the birth of their daughter Salem Isabella on Aug. 21. Duke and Yvonne have three other children, Chandler, Savannah and Jackson. The family resides in Davenport, FL, and can be contacted at philsboy11@verizon.net.

Wedding Knights

Patty Therrien, '89 (mechanical engineering), **'97** (civil engineering), married Walt Wasmuth on Aug. 21 at Pelican Beach Park in Satellite Beach, FL. Patty is a senior drainage engineer for HNTB Corp. in Lake Mary. The couple resides in Oakland, FL, and can be reached at UCFengrfla@netzero.com.

9| **Jill Baker, '94** (psychology), **'97** (master's, higher education), **'04** (Ed.D., educational leadership), married Mike Geraghty at the Buena Vista Watersports complex in Orlando on July 4. **Jennifer Shelley, '94** (English) was the maid of honor and **Chris Burke, '96** (business), was the best man. Jill works for the UCF Alumni Association and Mike is an IT consultant with DBM in Maitland. The couple can be reached at mikeandjill04@aol.com.

Alumna Roars

Cheryl Hines, '90 (radio/TV), is one of the stars of the new animated TV show, "Father of the Pride," which premiered in September on NBC. Cheryl provides the voice of lioness Kate. Along with John Goodman, Orlando Jones and Carl Reiner, Cheryl brings spark to the lives of these lions. In the show's storyline, the lions belong to Las Vegas magicians Siegfried and Roy. Cheryl also stars in the hit HBO comedy, "Curb Your Enthusiasm." She was featured in the March/April 2004 issue of *Pegasus*, which can be viewed in the *Pegasus* archive at www.ucfalumni.com.

10| **Lori Ritterstein, '99** (business), married Ian Das on May 23 in Ellicott City, MD. Other UCF alumni in the wedding include **Jessica (Perez) Stuart, '99** (finance), **Julie (Dross) Bauman, '98** (hospitality management), **Rachelle Lucas, '00** (ad/PR), and **Laura Wineke, '98** (business management). Lori works for the Bozzuto Management Group and Ian works for Lockheed Martin. The couple can be contacted at lritterstein@netscape.net.

11| **Carola Perez, '00** (physics), married **Robert Stephens, '02** (organizational communication), on July 25 in Las Vegas. They live in Winter Park and Robert works as an academic advisor for the University of Phoenix while pursuing his MBA. Carola works in the UCF Registrar's Office and is pursuing her master's degree in industrial engineering.

12| **Brian Quarterman, '03** (electrical engineering), married **Kristina Greer, '00** (accounting), on Nov. 1, 2003, at College Park Baptist Church. The ceremony included **Tracy Greer, '00** (marketing), and **Jennifer D'Ortona, '01** (accounting), **'03** (master's, accounting). Kristina works as an accountant for Bradley/Dixie Companies and Brian is an electrical engineer at Electrical Equipment. They can be contacted at kquarterman@hotmail.com.

Knights at Work

Allen Johnson, '81 (psychology), was hired by Orlando Mayor Buddy Dyer to run the city's Centroplex. Allen has run the Lakeland Center facility since 1988 and has also been assistant director of the West Palm Beach Auditorium and Stadium. The Centroplex includes the TD Waterhouse Centre, the Bob Carr Performing Arts Centre, Expo Centre, Florida Citrus Bowl and Tinker Field.

13| **Michelle Morse, '90** (finance), was promoted to vice president of marketing operations for Dynetech Corp. She assumed responsibility for all of Dynetech's marketing operations. Morse joined the Orlando-based enterprise management company in 1991. She lives in Maitland with her husband and three children.

Timothy Shields, '94 (social science education), **'96** (master's, counseling education), has been named executive dean of the College of Education at Nova Southeastern University in Fort Lauderdale. He has worked there since 1996. Timothy lives in Wellington with his wife Lisa and sons William and Benjamin. He can be contacted at tshields@nova.edu.

Leslie Pietruszewski, '96 (accounting), **'98** (master's, accounting), was promoted to tax senior at Geller, Ragans, James, Oppenheimer & Creel. Leslie is responsible for tax services for a variety of industries. She is a member of both the American and Florida Institutes of Certified Public Accountants.

Robert R. Michalak, '97 (finance), was promoted to staff financial analyst at Lockheed Martin in March. He has worked there since 1998. Within Robert's division, he is president of OASIS organization, which is designed to foster morale and recreational activities among Lockheed Martin employees and their families. Robert also plans to graduate from UCF in December 2005 with his MBA. He can be reached at AMMichalak@aol.com.

14| **John Hale, '98** (mechanical engineering), has been promoted to mechanical project engineer at TLC Engineering for Architecture. John is a registered engineer and is responsible for the design of heating, ventilating and air

conditioning systems. Future projects include the new Duval County Courthouse and a main public library in Jacksonville.

15| **Jennifer Lachtara, '03** (ad/PR, art), was promoted to the position of creative director at Creative Ideas, a full-service advertising and public relations agency.

Knightly News

Thomas Lochrane, '77 (master's, environmental engineering), has been named chairman of the Bikeways Advisory Board in Orange County. He is president and CEO of Lochrane Engineering, Inc. This will be Thomas' second term serving as chairman. He has worked on the development of bikeways and trails around Orlando and helped develop the Cady Way Bike Trail in Orange County.

16| **Chris Gent, '87** (communication), was awarded the 2004 Bob Davis award for "outstanding contributions to the public relations profession." The award is given every year by the Florida Public Relations Association. Chris is the manager of corporate communications for Kissimmee Utility Authority and has been a member of FPRA for 10 years.

Edward P. Feld, '89 (master's, health science), was named assistant vice president of business operations at Hospice of the Comforter in March. Ed and his wife Linda have been volunteers for hospice for 15 years. "[We] are very happy to be part of the huge growth underway at Hospice of the Comforter," Ed and Linda said. They can be contacted at efeld@cfl.rr.com.

Tricia Lake, '95 (political science), is training to be a patissier (pastry chef) in downtown Dallas. She is a member of the Texas Chefs Association. In the fall, she will be working at the Four Seasons Hotel in Las Colinas, TX, where the Byron Nelson Classic is hosted every year. Tricia can be contacted at ATF812@USA.com.

Daren Tompkins, '99 (molecular/microbiology), is a first-year resident at the University of Kansas School of Medicine-Wichita Family Medicine Residency Program at Via Christi Regional Medical Center in Wichita.

Anna Hill, '03 (political science), earned an all-expense paid internship in the Washington Internships for Native Students program at American University. Students intern and earn academic credit in Washington, D.C. They are provided with room and board, tuition and transportation. Anna worked 40 hours a week at an internship and took two classes during the nine-week program.

17| **Julie Kearney, '03** (liberal studies), recently completed a 10-week internship at the Arthur P. Marshall Foundation. She learned about the Florida Everglades and the $4.8 billion effort to restore it.

Pegasus

MEMBER SPOTLIGHT

JoAnne Puglisi, '73

Employer: Lockheed Martin Simulation, Training & Support

Job title: Director, STS Joint Strike Fighter Program

UCF degree: B.S. in engineering

Favorite professor: Ron Evans, the Mechanical Engineering Department chairman. In 1970, he talked me into staying in engineering when I asked to transfer out of the college. His vision and philosophy about women in engineering proved correct.

Fondest UCF memory: The tumultuous years of Vietnam War demonstrations on "FTU campus" combined with President Richard Nixon speaking in the drained Reflecting Pond for graduation.

Favorite thing to do as an alumna: I love going to our football games and tailgating and being a part of a group of alums from the UCF Alumni Association and the Alma Mater Society to help support and create traditions.

Family life: I have two adopted daughters, Brianne and Jennifer, who are both 22 and love living and playing in Orlando.

Latest accomplishment: I was one of 10 women who received *Orlando Sentinel* and Magic 107.7 (radio) 2004 Women of Magic Award for my career success in the economic growth in Central Florida for Joint Strike Fighter Contract and volunteer work with UCF.

If I won the lottery I would: Create scholarships for needy students to go to UCF. My experience there was great, and it created a great foundation for me in my successful career path. With the rest of the money I would buy homes all over the world since I love to travel.

I'm a member of the UCF Alumni Association because: I feel it's important to continue to grow the university, keep in touch with other graduates and have fun.

You might not know this about me: I have traveled extensively to more than 15 countries and lived and worked in Australia and France for more than eight months. I learned it is great to be an American and live in Central Florida.

Keep in touch: E-mail me at lasha0451@msn.com

IN MEMORIAM

Police detective **Patrick Rafferty, '87** (criminal justice), was killed in the line of duty in Brooklyn, NY, on Sept. 10. While he and detective Robert Parker were arresting a suspect in what should have been a routine assignment, the man wrestled Parker's gun away and used it to shoot both officers.

Mayor Michael Bloomberg noted, "The fact that these brave men were taken from us just hours before we will honor 23 fallen heroes from the World Trade Center — police officers who died saving lives there — is a cruel reminder of the dangers our police officers face every day." Patrick had been among those who helped clear the debris at ground zero after the attack.

Patrick, 39, was a 15-year veteran with the New York City Police Department. He lived in Bay Shore, Long Island, with his wife, Eileen, and three children, Kara, 12, Kevin, 9, and Emma, 5. More than 15,000 police officers, relatives and officials attended his funeral on Sept. 15, where he was remembered as "an athletic, focused police officer who transformed into a clumsy, sentimental dad when he came home to his family," according to *The New York Times*.

Several articles about the tragic incident were published in the *Times*. They can be found by searching for "Patrick Rafferty" in the archives of www.nytimes.com.

Patrick joins Brian Litz, '01, as the second UCF alumnus this year to die in this manner. Brian was killed responding to a disturbance call in Marion County in February.

JOHN ROCA/NEW YORK DAILY NEWS

With widow Eileen Rafferty and 6-year-old daughter Emma (front, left) looking on, the coffin of NYPD Detective Patrick Rafferty is carried outside St. Mary's Catholic Church in East Islip, Long Island, New York. Thousands of mourners — many in police uniforms — were present for the September 15 service.

Pegasus

November 13

Community Volunteer Project
Lake Lorna Doone Clean-up with Keep Orlando Beautiful

Meet in the Citrus Bowl Parking Lot B (corner of Tampa and Church), 8:30 a.m. - 1 p.m.

Please join us to help clean up Golden Knights fans' favorite tailgating area. We will also be holding a canned food drive to help with hurricane relief and local food banks and shelters. Call the alumni office at (407) UCF-ALUM for information and to sign up.

November 23

Junior Jousters Football Event

Tinker Field, 5:30 p.m.

Junior Jousters members (ages infant - 12) are invited to a pre-game pizza party to pick-up membership goodies. After halftime, Junior Jousters will welcome the UCF football team back onto the field with the UCF cheerleaders and Knightro. To become a Junior Jousters member or for event information, call (407) UCF-ALUM or visit www.ucfalumni.com.

December 8

Space Coast UCF Alumni Chapter AlumKnight Out Happy Hour

Beef 'O' Brady's Family Sports Pub, Melbourne, 6 - 8 p.m.

Catch up with fellow alums one more time before the holidays.

December 11

Community Volunteer Project
Seniors First HEART Home Improvement Program

Location to be announced, 8:30 a.m. – 2 p.m.

Join fellow alumni as we help local senior citizens. We will be doing exterior painting and minor home improvements. All ages welcome. We will also be collecting for our pet food drive. Call the alumni office at (407) UCF-ALUM for information and to sign up.

Student Scholarships

The UCF Alumni Association awards more than $40,000 in scholarships each year to undergraduate and graduate students. Scholarship applications are available in early January with an application deadline at the end of March. Scholarship winners are announced in June and the monetary awards are distributed at the beginning of the fall semester.

Students may apply for these scholarships:

- Charles N. and Frances Millican Scholarship — for seniors
- Trevor and Beryl Colbourn Scholarship — for seniors
- Alumni Fellows — for sophomores, juniors and graduate students
- Community College Scholarships — for students transferring directly from a community college in 2005
- Phoenix Scholarship — non-traditional student going back to school, any class standing
- UCF Alumni Legacy Scholarship — UCF student whose parent or legal guardian is a UCF graduate and a member of the UCF Alumni Association
- Distinguished Student Award — non-monetary award, any class standing

Additionally, both Orlando-area and regional alumni chapters have created chapter-funded scholarships for which students may apply based on their majors or hometown areas.

Visit www.ucfalumni.com in January for the 2005-06 scholarship information packet. If you are an alumnus/a in the Orlando area and are interested in joining the UCF Alumni Association's Scholarship Committee, contact Jill Baker, '94, at jillb@mail.ucf.edu.

Winter Externship Program

The UCF Career Services and Experiential Learning Externship Program gives students the opportunity to explore a career and offers alumni a chance to connect with current UCF students during Winter Break, Dec. 13 - 17, 2004.

Host a student at your place of work for one to five days, letting them shadow you, interact with others in the environment and learn more about your career field. Visit the Career Services and Experiential Learning Web site at http://www.crc.ucf.edu/externships/ for more information.

Pegasus

Pegasus