FloridaStateTimes
A newspaper for FSU alumni, friends, faculty & staff
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Pioneer of the seas

Earle sounds the alarm for Earth's oceans

Kip Evans Photography

Sylvia Earle

By Annette Hannon Lee
(FSU B.A. '64, M.F.A. '73)

When Sylvia Earle walked untethered on the ocean floor in 1979 at a record-breaking depth of 1,250 feet, she thought others would quickly follow. Almost three decades later, no other human being has gone deeper in a solo dive.

The 1955 Florida State University alumna was one of the first three pilots, and the only woman, to take a one-person submersible vessel to a depth of about 3,300 feet in 1985 — another record that still stands.

"The whole idea when we did what we did was to show that it was feasible, and we were hoping that others would quickly follow," said Earle, who declares the lack of deep-water adventurers a mystery.

"The ocean needs all the good minds and hearts we can provide. There's such fascination with the skies above, it really baffles me why there isn't more widespread enthusiasm for going into the depths below."

It's not underwater ventures, however, that most concern Earle, who went two and one-half miles below the sea's surface in a Japanese submarine in 1991.

As a National Geographic Explorer-in-Residence, she articulates a warning to audiences around the globe: The ocean is in trouble.

"It isn't just the United States that has shown a complacency about the ocean. It's the whole world, I think, that takes the ocean for granted. Policies have been developed over the years that suggest a belief that the ocean can recover no matter what we take out or what we put in. There's an underlying ignorance about the resistance of ocean systems and a comparable complacency about taking for granted what the ocean yields to us — most of the oxygen in the atmosphere and, of course, the water that comes back to the land. Fresh wa-

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Larbalestier leads superconductivity center to FSU

By Jeffery Seay
Editor in Chief

The National High Magnetic Field Laboratory has attracted the latest jewel in its world-renowned crown.

The national user facility in Tallahassee, which is unique in the Western Hemisphere and which attracts researchers from all over the world, figured prominently in a decision made this past fall by the scientists of the Applied Superconductivity Center of the University of Wisconsin to move their operations to Florida State University.

For David Larbalestier, who is the lead researcher of the Applied Superconductivity Center, the move is both logical and critical. Larbalestier has been in the business of superconductor applications for 25 years, and has worked on many different kinds of superconductors.

"The central focus has always been to work either on those materials that clearly have a lot of potential but are not ready for application, or to work on those materials that are being applied, but whose usefulness would be better if (the superconductors) were much better," Larbalestier said. "It's rather appropriate that we're moving to the magnet lab."

David Larbalestier

On a recent visit to the magnet lab, during its annual, child-friendly open house, Larbalestier heard about an enthusiastic child in attendance who exclaimed, 'Oh, I understand … this is the magic lab!"

Magic indeed. One of the most magical aspects of working with superconductors, said Larbalestier, is the fact that an electrical current will travel inside, around and around, forever, and objects can be levitated. It was that Houdini factor that got Larbalestier hooked on this particular brand of science.

In his early days studying at the Imperial College of the University of London, Larbalestier hadn't yet found his passion for superconductivity. As a senior undergraduate, he got turned on to the idea of superconductivity, but he found himself working on a project that did not inspire him.

"My adviser wasn't around to give me any help because he was on sabbatical at Berkeley," Larbalestier said. "I had just gotten married, and my wife said to me, 'If you don't like it that much, why don't you go do something you do like?' But I just kept at it, and I discovered something that had nothing to do with superconductivity."

One day, Larbalestier happened to go to a small academic meeting and was discussing his project. He met a scientist who worked at the British High Energy Physics Laboratory. The scientist told him the lab was building an enormous high-magnetic-field bubble chamber, used at that time for imaging particle reactions. Larbalestier's project piqued his interest because of its implications for the work at the High Energy Physics Lab.

What Larbalestier had discovered was the interconnectivity of all

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Earle contends the future of our world is in the oceans

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ter, for the most part, originates out in the sea."

The ocean is the cornerstone of life support, said Earle, who has seen 90 percent of the world's large, commercially exploited fish lost in the latter half of the 20th century.

"Everything from tuna and swordfish, grouper, snapper, halibut, cod, you name it, has been depleted in my lifetime," she said. "At the same time, we have seen 150 or so dead zones develop, including in the Gulf of Mexico, with Tampa Bay perhaps the most recent addition to the list of contaminated areas around the world."

Elizabeth Taylor

Dr. Sylvia Earle, with two of her four grandsons — Taylor and Morgan Griffith — examining a "sea palm," a kind of brown algae, on the northern California coast.

Because of destructive fishing practices, Earle also has witnessed the decline of coral reefs. She is dismayed that undersea habitats already have been destroyed that were never seen by humans

"It isn't just how much fish we can take out or stuff we can pour in, or how much oil and gas we can extract," she said.

People don't mean to be harmful to sea life, Earle admitted — there's just an underlying conviction that humankind can't hurt the ocean.

"But now we know better — at least it's known to a relatively small number, the scientists and those who actually work in the ocean."

And the ocean, she reiterated, governs the way the planet works.

"Our survival is on the line — to the extent that we either care for the ocean or we don't care for the ocean," Earle said. "If we continue doing what we're doing, the human future is at risk."

Scientists' and sport divers' access under the ocean's surface is limited to about 150 feet. To increase that depth with better equipment, Earle founded Deep Ocean Exploration & Research in 1992, known as DOER Marine (**www.doermarine.com**), to design, produce, operate and consult on subsea robotics and submersible systems. She now chairs the company that is run by her daughter, Elizabeth Taylor, and her son-in-law, Ian Griffith. Among current projects is a remotely operated vehicle designed for below-ice exploration to 1,500 meters, or about 5,000 feet.

Earle's other daughter, Gale Mead, worked with her as a data manager, submersible pilot, writer and photographer on the Sustainable Seas Expeditions, a five-year study of the National Marine Sanctuaries, sponsored by National Geographic. Son John Richie Mead is a ranger for California Fish and Game.

When she's not underwater, Earle travels to Washington, D.C., where she is executive director of global marine programs for Conservation International; to Corpus Christi, Texas, where she chairs the Harte Research Institute Marine Advisory Council at Texas A&M; or to Oakland, Calif., with the DOER headquarters nearby in the Alameda Marina complex. In Dunedin, Fla., she maintains her late parents' home.

After earning her bachelor's degree from FSU in botany, Earle received her master's and doctoral degrees from Duke University. Named a "Grad Made Good" by FSU's Omicron Delta Kappa chapter in 1986, she has been recognized by the Library of Congress as a Living Legend and was Time magazine's first "Hero for the Planet" in 1998. Perhaps one of the most renowned ocean explorer in history, Earle has pioneered research on marine ecosystems and is the author of more than 100 publications concerning marine science and technology, including the books "Sea Change" (1995), "Wild Ocean" (1999) and "Atlas of the Ocean" (2001). She has led more than 50 expeditions worldwide involving in excess of 6,500 hours underwater in connection with her research.

What lies ahead, or below the surface of the ocean? Earle, now 70, still longs to venture into "Ocean Everest," the 7 mile-deep Marianas Trench, southwest of Guam. At the rate she's going, the chances are excellent that the "ambassador-at-large for the world's oceans" will reach that goal.

Superconductivity holds possibilities in medicine and energy

(Continued from page 1)

science, and the collegial sharing of ideas, which is the fuel of research.

"I went from a situation where nobody, including me, seemed to be interested in what I was doing to a situation where there was intense interest," he said. "I suddenly realized that this interactive nature of science was exactly what turned me on and made it interesting.

"In particular, what was so interesting about doing good science that had application potential was that it was useful to others — it was exciting and valuable to others."

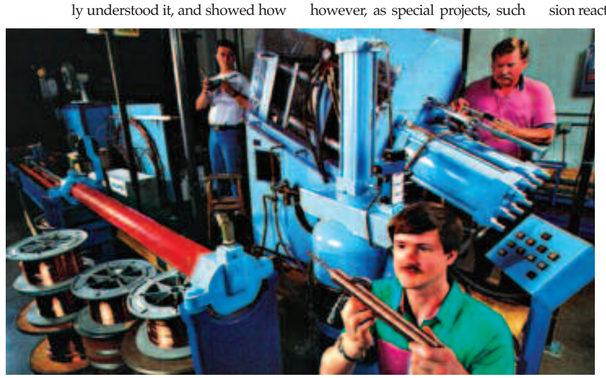
In a nutshell, the goal of superconductivity research is simply to induce current to flow — essentially forever — inside of certain materials. Under normal circumstances, energy dissipates, like current flowing through a copper wire.

The possible applications for superconductivity seem endless, and to the average man on the street, these applications already are paying huge dividends for society. Larbalestier cited medicine, through magnetic resonance imaging, as a leading beneficiary of the brave new world of superconductivity research.

In the 1980s, Larbalestier led the research group that improved the standard workhorse superconductor, which is an alloy of two metals — niobium and titanium.

"We were the group who finally understood it, and showed how to process it to get extraordinarily good properties of MRI," he said. "MRI is by far the biggest year-in, year-out use of superconductors. From a practical point of view, among the kinds of things that turned me on to superconductivity were medical applications. At the moment, this primarily means magnetic resonance imaging."

This won't always be the case, however, as special projects, such as the fusion reactor ITER (International Tokamak Experimental Reactor), are fully developed.



The Hydrostatic Extrusion Press: This apparatus makes complex structures into wires by pushing a complex array of copper, superconductor and strengthening material through a die at high pressure so that it all bonds together and can be made into long wires suitable for making magnets. Pictured, from left, are: Rob Heussner (a former Applied Superconductivity Center graduate student); Bill Starch, the APC lab manager who is among those making the move to FSU; and Paul Jablonski (a former APC graduate student).

Larbalestier explained that the ITER project (not affiliated with him or FSU) is about to be built over roughly seven years at a cost of approximately $5 billion. About half of that amount will go into its superconducting magnet.

"The idea of this is that the fusion reactor takes hydrogen atoms, which are present in the reaction that powers the sun, and fuses them together in a way that produces a great deal of energy, with very little radioactivity.

"As we stare at the perils of global warming, this is one of the ways in which the future will have to look to generate electricity, beyond things that continue to produce large amounts of carbon and carbon dioxide."

This year, as the Applied Superconductivity Center makes its move from the University of Wisconsin and becomes fully operational at FSU as a materials research division of the magnet lab, Larbalestier will roll up his sleeves and continue his own research.

To that end, and to help educate the next generation of superconductivity researchers, Larbalestier will be bringing with him five graduate students, a postdoctoral researcher and seven staff members. This is about two-thirds of the number he'd normally have working under his charge, which was scaled back slightly to accommodate the move.

At FSU, the Applied Superconductivity Center will continue its public outreach efforts begun at Wisconsin, which include its "I-Wall," a back-lit informational display on superconductivity and its applications.

"Some of the developments that my center has been doing, particularly in developing high-temperature superconductors and a new material, magnesium diboride, have direct application to the generation of very high magnetic fields," he said. "There's no question that being in Tallahassee and having closer access to the magnet lab is helpful, but more so, I think the best thing about it is being part of the lab and the fermented discussion and idea generation, which is really the exciting stuff that science is all about."

Brown brings home Longhorn national championship

By Jeffery Seay
Editor in Chief

A popular ad slogan asks, "What can Brown do for you?" If you're the University of Texas football program, the answer is simple: beat all of your opponents and bring home a national championship.

Florida State University alumnus Mack Brown ('74, Education) has done just that. As the head football coach of the 2005 national champion Texas Longhorns, Brown led his team in an undefeated season that included victories over the Oklahoma Sooners (45-12) in the Red River Shootout and the Texas A&M Aggies (40-29). The storybook season culminated in a 41-38 Rose Bowl victory over the University of Southern California Trojans.

Despite the fact that the Longhorns would be facing a talented Trojan team with 34 consecutive wins under its belt and in a hunt for its third consecutive national title, Brown said he remained confident going into the Rose Bowl.

Courtesy University of Texas

Mack Brown

"You have to go back and look at the build-up to the game," said Brown, who recently was named the Paul "Bear" Bryant College Football Coach of the Year, as voted on by the National Sportscasters and Sportswriters Association. "We knew we were a good football team, and we knew they were very good as well. As the season went on, we tried to play to a standard — USC's standard. We watched the Ohio State-Notre Dame game (the Tostitos Fiesta Bowl) with interest, because those were the only two common opponents. When Ohio State won (34-20), we gained confidence."

That confidence turned into a hard-fought victory on Jan. 4 as Longhorn quarterback Vince Young ran for a nine-yard touchdown on fourth down with 19 seconds remaining to guarantee victory. Brown's No. 2 Longhorns had, at last, crossed over into the promised land of a Bowl Championship Series title.

"The first thing I thought of was what I would say to Pete (Carroll)," Brown said of the USC coach. "I wanted to be classy and let him know how much we respected all that they had accomplished."

In Brown's eight seasons at Texas, his record of accomplishment speaks for itself, with nine or more wins per season, a bowl berth each season, and the distinction of being named the National Collegiate Athletic Association's second-winningest coach behind Florida State legend Bobby Bowden over that time.

"We've been one of the most consistent teams in the country over the last eight years, and we want to maintain that," Brown said. "I have been told many times, and it turns out to be right, that when you finally win a national championship, you want to go out and win another. We want to be in position to have a chance to play in that game every year."

Brown went to Texas after leaving the head coaching post at North Carolina in 1997, following a successful 10-year stint there. He immediately went to work hiring assistant coaches at Texas who had a familiarity with Southwestern football. Since becoming the top Longhorn, Brown is credited with restoring pride in the program by doing the essential — winning ballgames.

"I think we are doing a better job as a staff of playing off each other — of working together, and of game planning as a staff," he said of his relationship with his coaches. Of his players, Brown expects 100-percent participation, both physically and mentally.

"We stress winning every day, and we ask our players to do something each day to help us win," he said. "We stressed that at our practices in California before the Rose Bowl. We asked every player to figure out something they could do in practice to help us win, and told them to practice like that every day."

While playing football as a Seminole under head coaches Larry Jones and Darrell Mudra in the early 1970s, Brown lettered in 1972 and 1973.

Now entering his 33rd year of coaching, Brown has arrived at the pinnacle of his profession. As the head coach of the only program in the nation to post 10 or more wins in each of the past five seasons, and with one of the nation's premier recruiting classes all but delivered — 25 top recruits signed letters of intent this past Feb. 1 — the Longhorns are enthusiastically looking forward to another winning season and thinking, "Hook 'em, Mack!"

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FSU and IndyPro Racing — Festa's high-speed balancing act

By Dave Fiore

Chris Festa is determined to earn his bachelor's degree in marketing from Florida State University — even if it takes him a decade to do it.

The 20-year-old from Atlanta is doing his best to balance school and the commitments that come with being one of the hottest young drivers on the IndyPro Racing circuit.

Festa drives for the famed Cheever Racing Team after being selected by owner Eddie Cheever Jr. to drive the No. 51 Formtek/CareCentric car, the team's first entry in the Indy Racing League's developmental series.

"The IndyPro Series, now well established in its fifth season, offers Cheever Racing an opportunity to take a young gun like Chris and build him up with the final expectation of racing at the Indianapolis 500," Cheever said. "Our entire group is looking forward to working with Chris on this objective."

Festa's father and business manager, John Festa, said working with the Cheever team places Chris with a major Indy Car team with the goal of being in an Indy Car full time by 2007.

"For a young driver, this is like being a first-round NFL draft pick," he said. "The difference is that in any given year, only one or two drivers get this opportunity. And in some years, none do."

This is Chris Festa's second season in the IndyPro Series. He finished sixth in the series standings in 2005 with five top-five finishes and a season-best second place at Phoenix International Raceway.

Festa is younger than most of the drivers in the series, but that does not bother him one bit.

"I am one of the youngest drivers out here, but I also have better credentials than most of them," he said. "I have had good success early in my career, and I am not at all intimidated by the age difference."

He said that while there obviously is competition between drivers, there's an interesting dynamic at work.

"At the track, we see each other and talk, but for the most part, it is 100 percent competitive, and we are out to destroy each other," he said. "But when we leave, we just go and hang out somewhere together. Who we are at the track is not who we are away from the track."

The IndyPro League was created to prepare drivers for the Indy Racing Series, much in the same way that the NASCAR Busch Series prepares drivers for Nextel Cup races.

"It is the exact equivalent to the Busch Series, except there is a clearer distinction between the two and it is much harder to make the Indy series," Festa said. "There are fewer cars and fewer opportunities. You really have to show something special. And by special, I don't just mean finishing in the top five — I mean winning."

Regardless of any future success, Festa is committed to making time for school.

"While school is taking a secondary role to racing right now, it is important for me not to let it go completely. In the long term, I plan to get involved in building a business around my racing career," he said. "A degree from a good institution will make that easier to accomplish."

But for right now, nothing compares to the thrill of racing.

SHORT TAKES

Wall-Apelt funds Asian Art Center at Ringling

Noted Sarasota art collector and philanthropist Dr. Helga Wall-Apelt will fund the creation of the Dr. Helga Wall-Apelt Gallery of Asian Art at the John and Mable Ringling Museum of Art, part of a gift to Florida State University that is expected to exceed a total value of $50 million.

Helga Wall-Apelt, left, and T.K. Wetherell

Wall-Apelt's multitiered gift is the largest yet received by the Ringling and the largest single gift to FSU. It includes $4 million for museum expansion, an additional $4 million for the Ringling endowment, a promised gift of her Asian art collection and planned financial gifts for ongoing support of the center.

"This extraordinary gift greatly expands the range of art that will be shown at the Ringling," said Executive Director John Wetenhall. "It is more than a philanthropic act. It is a gift of great passion and vision."

"Dr. Wall-Apelt's gift not only enhances the Museum's holdings of non-Western art," said FSU President T.K. Wetherell, "but it fulfills the Ringling's pledge to build a $50 million endowment by the year 2007."

Shore receives honorary doctorate

During Florida State University's fall 2005 commencement, the university conferred an honorary Doctor of Laws degree on Jim Shore, in recognition of his lifetime achievements as a member of the Seminole Tribe of Florida, and for his advocacy on its behalf as general counsel. He is the first member of the Seminole Tribe to become an attorney, graduating from Stetson University College of Law in 1980. The tribe is a 3,000-member, federally recognized Indian tribe headquartered in Hollywood, Fla., with reservations totaling 90,000 acres in several parts of the state.

Born in 1945 northwest of Lake Okeechobee on what is now the Brighton Seminole Reservation and raised in a traditional log and thatched-roof chickee hut, Shore overcame a physical disability (he was blinded in an automobile accident in 1970) as well as cultural challenges that made access to higher education more difficult.

Shore's legal work includes environmental issues, as well as economic development, human services and many other aspects of tribal government.

His honorary degree was the 111th awarded and the 19th honorary doctorate in Laws since the institution's founding 154 years ago.

Jim Shore

Vasilinda receives 'Cronkite Award'

FSU alumnus and veteran Florida broadcast journalist Mike Vasilinda has been recognized for producing stories that helped shed light on serious problems in Florida's felon voting lists.

The University Of Southern California Annenberg School of Journalism awarded Vasilinda the Walter Cronkite Award for Excellence in Television Political Journalism. He shared the award with colleagues at WFLA in Tampa for their coverage of the 2004 presidential election.

"It was the most incredible thing to be around Walter Cronkite," Vasilinda said. "Getting the award was a wonderful experience, but being around Cronkite really made it amazing."

Walter Cronkite, left, USF political science professor Susan McManus and Mike Vasilinda

The secrecy of the felon voting list was challenged in court by WFLA and CNN. Vasilinda provided testimony through a deposition and the court ruled the list must be made public. Once public, the list was scrutinized and found to contain few Hispanic names while listing many African Americans. The state of Florida eventually discontinued use of the list prior to the 2004 election.

Out of school for 30 years, Vasilinda graduated from FSU in 2005 with a bachelor's degree in public administration from the College of Social Sciences.

D'Alemberte receives prestigious legal honor

With the crumbling of the Berlin Wall in 1989, millions of people living under communist rule behind the former Iron Curtain were given their first taste of freedom. Today, many of those same people are citizens of growing democracies and enjoy the legal protections of national constitutions and independent judiciaries. And one of the men who helped make such a radical transformation possible is being recognized internationally for his efforts.

Talbot "Sandy" D'Alemberte, president emeritus of Florida State University and a professor in the FSU College of Law, was presented with the International Bar Association's prestigious Rule of Law Award on Feb. 26, in Miami. The award honors individuals who have made a significant and lasting contribution to upholding the rule of law worldwide.

In 1989, D'Alemberte, then serving as president-elect of the American Bar Association, convinced that organization to establish the Central and East European Law Initiative (CEELI) (what is now the Central European and Eurasian Law Initiative) a volunteer program charged with assisting emerging democracies across the region as they worked to create legal frameworks that would guarantee the rights of individuals. The Cold War having recently ended, D'Alemberte said he felt it was time to stop talking about spreading freedom and actually do something to make it happen.

Scalp 'em, Shaka!

Rottweilers are known to be calm, confident and courageous dogs. Now, the adjective "champion" can be added to the list, as a Rottweiler named Shaka won the title "best in the working group" on Feb. 13 at the 2006 Westminster Kennel Club Dog Show in Madison Square Gardens.

The working group win is a first for the breed, and a source of pride for Shaka's owner, who is FSU alumnus Keith Carter (B.S. '86, Management). Carter played linebacker for the Seminoles from 1986 to 1989. Shaka's full name is Champion Carter's Noble Shaka Zulu.

AP Wide World Photos

Keith Carter and Shaka

Funk and Bolin named a 'Point of Light'

Fanchon F. Funk, Florida State University professor emeritus of educational leadership, and FSU alumna Sheila A. Bolin (M.S. '83, Education), were part of a swan research organization that won the U.S. Daily Point of Light award, given by the U.S. Points of Light Foundation.

The Regal Swan (composed of veterinarians, swan keepers, educators, photographers, writers and other professionals) was recognized for its dedication to the humane treatment and veterinary medical care of captive swans. The award was presented at Orange Lake Resort & Country Club this past January. Orange Lake (Fla.) serves as one of The Regal Swan's primary research hubs, and is the home to six captive mute swans.

A Civil War history that is accessible and comprehensive

Florida State College for Women alumna Marjorie Moylan (B.M. '41) has written "Walton County and the War Between the States," published by the Walton County (Fla.) Heritage Association. Moylan pieces together the history of Walton County and its people during the Civil War, including letters and pictures from the era.

"I am eager for there to be awareness and understanding of the position of Walton County during the terrible strife of the Civil War," Moylan said.

Mary Jane Moffatt, an author and creative writing teacher at Stanford University, calls the book "beautifully presented and superbly written by a true humanist scholar who has made this story accessible and a pleasure to read." Norma Bernstein, a retired master teacher of English composition for New York schools, said "careful and comprehensive research marks Marjorie Moylan's history of Walton County during the Civil War, as it reaches the human consequences of that war in personal, compelling stories. The individuals who did not want to secede remind us that the South was made up of varied ethical and political views."

To learn more, contact the Walton County Heritage Association Inc., P.O. Box 1681, DeFuniak Springs, Fla., 32435.

Nole Ade: 'Go For It!'

Nole Ade, a new sports drink emblazoned with the Seminole logo, is now available for a limited time.

The idea for Nole Ade didn't come from a corporate think tank, but from a group of Tallahassee elementary school students (Maddie Ballard, Kinsey Grant, David Hill Robinson, Carter Torgerson and Tripp and Teddy Transou. One day in class, the group came to a consensus upon seeing a Gatorade poster: "If there is a Gatorade, there must be a Nole Ade …"

"Seeing our logo next to some of the other products out there will be great," said Florida State University President T.K. Wetherell. "FSU is always willing to participate in educational programs that allow students at any level to become better acquainted with the entrepreneurial process."

A limited edition of 4,000 cases is being produced. FSU will receive a percentage for every case sold and donate the earnings to charity.

Nole Ade, packaged in 16-ounce aluminum cans, is an enhanced water beverage, available in orange or lemon-lime.

Tri-Eagle Sales of Tallahassee is its exclusive distributor. To learn more, visit **www.noleade.com**.

Initiative will move university forward in academics and research

By Bayard Stern
Managing Editor

In aspiring to build Florida State University into one of the best public universities in the nation, faculty and university administrators are taking some determined measures. They have undertaken a plan designed to improve the institution by enhancing its research and graduate education capabilities.

Known as the "Pathways to Excellence" initiative, the plan was introduced by FSU President T.K. Wetherell during the President's State of the University Address at the annual Fall Meeting of the General Faculty in September 2005.

"The long-term goal of Florida State University is to be one of the top public research and graduate education universities in the United States," Wetherell said.

Now, Ross Ellington has been given the assignment of guiding the "Pathways to Excellence" initiative.

"This initiative is designed to work with the already world-class faculty and strong graduate programs that FSU has, and to help them achieve more successes in the future," said Ellington, who is the FSU Michael J. Greenberg Professor of Biological Science and an associate vice president for Academic Affairs. "The purpose of the initiative is to make strategic investments to move the university forward in terms of our academic standing, and in our ability to conduct research and creative activities and to train doctoral students."

Improving faculty research capabilities is a key part of this initiative, according to the "Pathways to Excellence" Web site (**www.pathways.fsu.edu**). A number of ambitious goals for the initiative have been identified, including the planned doubling of FSU's annual federal research expenditures in the next five years, and the tripling of annual grant awards received from the National Institutes of Health in the next five years.

Another goal is to increase scholarly productivity, as measured by citations and program reputation, so that by 2010, no less than one-third of FSU's doctoral-level programs will rank among the top group of public universities nationally.

"We're going to make strategic investments," Ellington said. "We would like to hire 200 additional faculty over the next five to 10 years in groups of three to eight faculty recruited around common academic themes. These 'cluster hires,' will be chosen in areas that are perceived to be based on our strengths, afford great opportunities for external funding of research, and meet state and national needs."

FSU Photo Lab / Michele Edmunds

Ross Ellington

Cluster hiring as a strategy was used to build the university's highly successful Center for Materials Research and Technology. Recently, cluster-hiring efforts were used to build the School of Computational Science, as well as the Florida Center for Reading Research and Technology, which was based on a set of key psychology faculty hires. In addition, the Applied Superconductivity Center, formerly based at the University of Wisconsin, is moving to FSU this spring. The additional faculty will enable more doctoral students to be trained and graduate from FSU, which is an important goal of the initiative.

"We're going to enhance our doctoral programs," Ellington said, "especially in terms of recruiting highly qualified graduate students. We would like to grow the number of Ph.D. graduates that we produce each year from approximately 300 to around 400 or possibly even 450. These FSU graduates are the folks who come away with the high level of expertise that allows them to contribute to the intellectual, technological, educational and economic development of Florida and the country.

"We are major players already in that domain, but we would like to be bigger players."

Ellington described this initiative as an important effort for FSU. He said he understands that some faculty members are wary of the plan, because all universities in the state operate on a fairly constrained resource base. But he wants to reassure everyone that this effort can potentially be a transformational opportunity for FSU.

"We're a great university now, but we want to be in the uppermost tier of public universities," Ellington said. "To do this we have to invest resources, but we have to do it wisely — and monitor very carefully how we do this, and assess the effectiveness of those investments. Part of this whole process will involve accountability measures to look at the impact of the investments.

"I think it's a really exciting time," he continued. "This is my 25th year at the university, and I think this is the first time since I've been here that I have a sense that everybody has the same goal and focus. The upper administration is clearly focused on enhancing the academic standing, reputation and capabilities of the university, and is willing to invest the resources to do it. I think this is really important for the university."

Former student body president elected to Florida House

By Dave Fiore

Trey Traviesa

Florida Rep. Trey Traviesa, R-Tampa, credits much of his success in business and politics to the experiences gained while at Florida State University. However, if it were not for his older sister, he said he most certainly would have ended up on another campus.

"As a high school student in Tampa, I considered attending either the University of Florida, where I had a cousin who played football, or the U.S. Naval Academy," said Traviesa, who graduated in 1992 with a Bachelor of Science degree. "But my older sister went to FSU, and as younger brothers do, I teased her about her choice. That was until I visited her. It was love at first sight. I fell in love with the campus and decided that was where I belonged. She still takes credit for it to this day."

Traviesa majored in both English and finance at FSU, combining a strong interest and a lifelong passion.

"I chose English because growing up with a mom who was a language-arts teacher for 34 years, books were very important to us, and I also was considering going to law school," he said. "But my passion was to live up to the example of my family and be a businessman. When I was in college, there was a lot of interest in what was happening on Wall Street, and I fell in love with it.

"The combination of those majors has served me exceptionally well."

In addition to focusing on academics, Traviesa became enamored with student politics. He got involved as a freshman when a friend encouraged him to attend a Student Senate meeting. He not only got involved, he helped start one of the most successful parties in school history and later was elected student body president.

Traviesa also finished his FSU career as senior class president. He said one of his proudest moments in that capacity was overseeing the allocation of $15 million in student funds for the building of the University Center.

Being involved in student leadership was an important part of his growth as a person, according to Traviesa.

"That experience was part of me growing up. It helped me learn to make good decisions in both my personal and business lives," he said. "And that's what the people from my district (District 56) elected me to do for them — make good decisions."

After college, Traviesa spent 12 years working and getting his MBA from the University of Texas — getting the experiences he wanted to be well rounded.

"The core reason for my success is communications skills, and studying English at FSU helped me understand complex issues and then communicate them well to others," he said. "I worked in investment banking, venture capital and the high-tech industry, and I learned to love the art of the deal. I learned the tools of the deal in my finance classes at FSU."

It was not long after he returned to Tampa, which he said he knew he always would, that he began to feel that the political process needed a better business perspective and that it was his responsibility to get involved. Traviesa was elected to the Florida House of Representatives in fall 2004.

Traviesa said his greatest challenge as a legislator is to focus on specific tasks, because there is so much to consider.

"Florida is a huge state with an enormous budget. You learn to size up the situations and decide early what to focus on and make your mark. It is not easy," he said. "There is also an enormous amount of work, trying to balance public service, family and my career."

Considering the time he spends for the session, fund raising, campaigning, meeting with constituents and studying the issues, Traviesa said about half his time is spoken for.

"It is a lot of fun," he said. "I am an intellectual person, and this gives me a good fix. The most rewarding aspect is that you can engage in something and make a difference. You can help determine how 17 million people in Florida are going to do something."

Traviesa said there is also a family benefit for him, wife Nina, and young daughters Alexa and Amelia.

"It helps bring my family closer together because we go through everything together, and it introduces us to new people," he said. "We build lifelong relationships in the process."

Traviesa said there is a strong camaraderie among the members of the FSU State Legislative Caucus, which now has more than 20 members. "FSU gave something special to each one of us," he said. "It is a precious asset to the state, and we want to help it achieve its level of promise in higher education."

Alumni Association can be a comfort to parents throughout college experience

By Barry Adams

Barry Adams
President
Alumni Association

I am fond of referring to alumni as "stockholders" of a university. When I met recently with the board of directors of the Florida State University Parents Association, I noted that they were the "venture capitalists" and that part of the role of any alumni association should be to ensure that members know, early on, that their investment is a good one. This means looking at the past, present and future as it relates to their "children gone student." Knowing that there are positive ways to influence the return on the investment and programs that can disquiet the unknown are helpful, if not downright essential, to parents.

College selection decisions aren't easy these days. There are as many polls, surveys, rankings and rumors as there are courses on most campuses. But if parents know that the institution their child eventually selects has programs in place to assist in the development and transition of their son or daughter, beginning with the freshman experience and continuing all the way through commencement, they will rest a little easier when the car — packed to the roof with new clothes and iPods fully downloaded — turns that corner and heads to Tallahassee.

A lot of very competent people are involved with the process from the beginning. I know that our FSU Admissions Office is among the very best anywhere in managing and working through issues that can surprise, challenge and confuse even parents who are rocket scientists. It must seem like a gauntlet of forms, tests, brochures, information sessions, interviews, tours and advisers. If there is another staff more committed to making that a process that doesn't age the arteries, I haven't been privy to their miracle demeanor. The experience that thousands of applicants (and their parents) go through at FSU is a good start to offering "investment security."

The FSU Alumni Association already is involved in some aspects of insuring those tuition "deposits." Throughout the year, we recognize the success stories at FSU — and they come in every discipline, from outstanding elementary school teachers to visiting nurses, and from electrical engineers to dance troupe performers. Knowing what those sons or daughters might achieve has a way of settling the stomach.

As the Alumni Association continues to build new programs and offer expanded services, it will become more active in convincing students to make FSU their top choice. We have little doubt that testimonials from alumni and current students can add to the interest already accumulated at high schools and college nights. From a matriculated student's perspective, arriving on campus knowing who else from your hometown county or city will be attending can be better than having a pass/fail option in statistics. Sponsoring local family "cookouts" for incoming freshmen and their parents, lightly sprinkled with knowledgeable area alumni, can work wonders with the bottom line.

The buck doesn't stop there. With the incorporation of professional mentors, increased opportunities for externships and internships (through the FSU Career Center, but with the Alumni Association assisting in the identification and solicitation of volunteers), and "life skills" sessions, we can ease the transition into independence. For example, we recently co-sponsored an etiquette dinner with the Career Center. Our vision is eventually to offer juniors and seniors short programs on topics such as the best approach to buying a new car, obtaining insurance, investing, banking (and what can you negotiate for), and controlling one's credit — all things that demonstrate our commitment to assisting students into the sometimes information-overloaded world.

Already, we have a great loan consolidation benefit plan available to graduating seniors and graduate students as they prepare to leave campus. Our temporary medical insurance is an excellent stop-gap program for new alumni who often find themselves without coverage when they are just out of school and still interviewing for jobs, awaiting graduate school or traveling before they settle into a career path.

The outstanding student arm of our organization, the FSU Student Alumni Association, works to build traditions, sponsor programs and establish early student commitment toward the advancement of FSU. Over the past several years, literally thousands of parents have surprised their sons and daughters with "exam week survival bags," often delivered right to their door!

There are ways to calm anxiety when a home is about to be — or is nearer to becoming — an empty nest. If the FSU Alumni Association can be a factor in helping parents through this transition, our institution is significantly stronger and our emerging alumni class somewhat wiser.

If you want to learn more about the FSU Alumni Association's popular insurance offerings or loan consolidation program, check out our Web site at www.alumni.fsu.edu — and while you're there, don't forget to register for the online community of alumni and friends who are members. If you live in a Seminole Club area and want to help with student programs, talk to your club president or e-mail our director of alumni programs at kdeterick@alumni.fsu.edu. The experience can be "Chicken Soup for an Alumnus' Soul."

From one cell, many possible cures

FSU researcher's device provides a major boost to adult stem-cell research

FSU Photo Lab / Bill Lax

Teng Ma

By Barry Ray
Office of News and Public Affairs

A single cell with the potential to repair damaged heart muscle tissue . . . regenerate injured bone . . . create new cartilage or skin . . . even reverse nerve damage. Human stem cells offer tremendous potential for the development of revolutionary medical treatments for a variety of health woes.

Up until now, however, stem-cell research has been slowed by ethical controversy — as well as by a limited supply of the extraordinary cells.

That could be about to change: A Florida State University research team reports that it has designed a device that will allow stem cells derived from adult bone marrow to be reproduced in sufficient quantities to permit far more biomedical research — and to allow faster growth of new tissues that can be transplanted into patients.

Teng Ma, an assistant professor of chemical and biomedical engineering at the Florida A&M University-FSU College of Engineering, and colleagues have created a device called a perfusion bioreactor that is designed to mimic conditions encountered by adult stem cells within the human body. The bioreactor bathes stem-cell samples in a protein-rich liquid while also simulating the flow of the body's circulatory system.

"Within the human body, each cell is no more than 200 micrometers from a source of nutrients," Ma explained. "The perfusion bioreactor allows us to deliver essential nutrients to stem cells in a manner very similar to what they are used to within the body."

By altering the pressure, oxygen level and composition of that flow of nutrients, the researchers also are learning to control what type of tissue the stem cells develop into.

"The perfusion bioreactor can be used to reproduce adult stem cells and to direct their differentiation into bone, cartilage, muscle, heart muscle, fat or nerve tissue," Ma said. "The tissues grown then will be suitable for clinical transplantation."

He explained that stem cells can change into something totally different from the original population when they are grown in a laboratory setting.

"The engineering challenge, then, is to create not only a large quantity of cells, but cells with the desired properties. Our main goal is to explore a new expansion strategy by 'reconstructing' the cells' original environment."

To accomplish this, "we are currently studying the effects of fluid flow on the cells grown in the bioreactor system," Ma said. "We have found that the cells are highly responsive to the forces they experience in the bioreactor's flow chambers. They may grow faster or slower in response to the fluid shear stress (the pressure of the flow of nutrients). They also express more bone cell markers at higher flow rates."

In addition, "cells in bone marrow are in an environment with a low oxygen tension of less than 5 percent," he said. "We have published a paper reporting our findings that low oxygen tension helps the cells to maintain their primitive state and to grow faster.

"All of these findings will be implemented in the bioreactor system to help us to re-create the 'original' bone marrow environment, or 'microenvironment,' that helps the stem cell to proliferate and form the desired tissue type," Ma said. "The bioreactor system then will be run by computer software that controls the desired flow rate, oxygen tension and biomaterials to produce a specific tissue type."

Already, the research has attracted wide attention. Ma has received significant research funding from the federal Defense Advanced Research Projects Agency, the James & Esther King Biomedical Research Foundation, the American Cancer Society and the FSU Cornerstone Program. He also recently received two U.S. patents relating to the perfusion bioreactor, and said that negotiations are under way with a technology company to manufacture the perfusion bioreactor for other stem-cell researchers.

"The engineering challenge, then, is to create not only a large quantity of cells, but cells with the desired properties…" — Teng Ma

Collaborating with Ma on his perfusion bioreactor research were postdoctoral student Feng Zhao and former graduate student Warren Grayson. Ma acknowledged the work of Zhao in particular as helping lay the groundwork for development of the perfusion bioreactor.

"Dr. Zhao has been working on the (bioreactor) system for three years and carried out all of the experimental studies in the laboratory," he said. "Without her meticulous work in the lab, it wouldn't have been possible to test our ideas."

Their research may lead to important breakthroughs in the field of stem-cell research and application, said Bruce Locke, chairman of the department of chemical and biomedical engineering in the College of Engineering. "By addressing one of the key issues constraining this research — a limited supply of stem cells — Professor Ma's team could help advance the development of numerous medical therapies by years," Locke said.

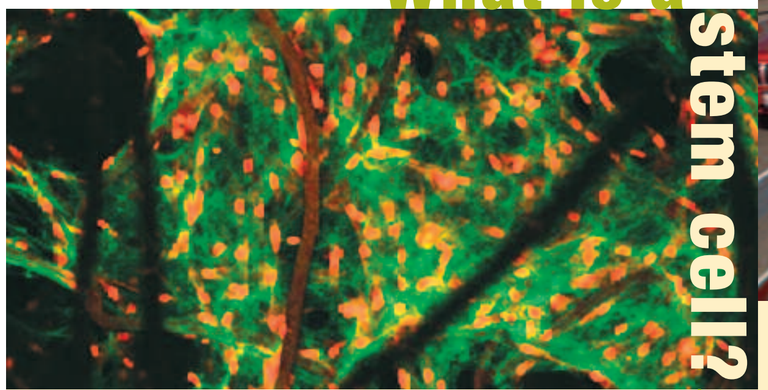
While much of the controversy surrounding stem-cell research has centered around the use of cells derived from fetal or embryonic tissue, Ma points out that the stem cells used in his research come from adult bone-marrow donors.

"The National Institutes of Health helped establish the Tulane Center for Gene Therapy at Tulane University as a national distributor of these cells to researchers," he said. "The center is the source of the stem cells we use.

"All of their donors are adults between the ages of 19 and 49. Essentially, each donor undergoes a medical procedure in which a small amount of bone marrow is extracted from his or her pelvic bone."

Within that extracted bone marrow, only about one in every 100,000 cells is a stem cell, Ma said.

What is a stem cell?



According to the Tulane Center for Gene Therapy **www.som.tulane.edu/gene_therapy/**, "Stem cells are so named because they are like the stems on a tree that can produce new leaves and flowers each year. Each stem cell has the ability to divide so as to produce a perfect copy of itself; the copy then can become a "workhorse" cell, such as a bone or nerve cell. Because the new cell produced by this division is a perfect copy of the original, stem cells seem to be able to divide and live indefinitely, perhaps forever.

For more information on stem cells and related research, please visit the National Institutes of Health "Stem Cell Information" Web page at **http://stemcells.nih.gov/**.

Radiation detection grabs attention of Homeland Security

By Dave Fiore

In the mid-1990s, Daniel Archer developed an interest in radiation detection while earning master's and doctoral degrees in nuclear physics from Florida State University.

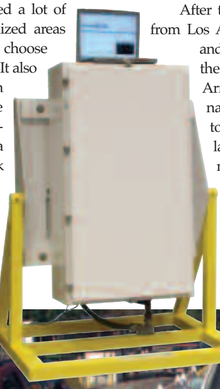
In the decade that would follow, that interest would lead to a coveted research position at a national laboratory and development of the Adaptable Radiation Area Monitor — a product that has attracted considerable attention from the Department of Homeland Security and that won him a prestigious 2005 R&D 100 Award.

Not bad for a guy looking for a graduate school with a solid physics program and plenty of warm weather.

"FSU offered a lot of different specialized areas in physics to choose from," he said. "It also is a hands-on school. Some schools have students travel to a lab with a stack of blank tapes, where someone there performs the experiments, then the students go back home with the tapes and analyze the results. But here, you are involved from concept to published paper — you do everything. You build it yourself."

Soon after Archer graduated, his major professor, Mark Riley, was asked if he knew anyone with experience working on detection systems. That connection got Archer a job at the Lawrence Livermore National Laboratory in California, where his first assignment was to build a detector system at Los Alamos National Laboratory that was similar to what he built in graduate school.

"The project was bigger than I ever expected it would be. Part of that was the timing, being funded just before the terrorist attacks, and starting work after they occurred…" — Daniel Archer



Adaptable Radiation Area Monitor

After two years, he moved from Los Alamos to Livermore and began working for the Non-Proliferation Arms Control and International Security Directorate, located in the lab's Radiation Technology Group. There, Archer and a team of researchers developed the Adaptable Radiation Area Monitor, or ARAM, a groundbreaking technology that can detect and identify low levels of radioactive materials as they pass by, even at highway speeds.

ARAM uses a thallium-doped sodium iodide crystal to detect small amounts of natural and man-made radiation in many different scenarios. It can be used as a fixed detector to monitor pedestrians or slow-moving packages, such as luggage; as a roadside detector to monitor high-speed traffic; or as a portable device. Built from commercial, off-the-shelf components, ARAM can detect 20 microcuries of 133Ba from about two meters away, even when the source of radiation is moving at up to 60 miles an hour. Competing systems can detect moving radiation sources at less than 10 miles an hour. A complete ARAM unit has been used as a fixed device to monitor packages for Federal Express in its air cargo facility at the Denver International Airport.

"The beauty of ARAM is that it is such a simple system. There are only three pieces in there, and everything is commercial stuff — right off the shelves," Archer said. "We wanted to take available hardware and develop a better way to analyze the data. We have improved the range in how to use the product. It is much different to say that you can scan a briefcase as opposed to scanning a car at 60 to 65 miles an hour."

Daniel Archer

Archer said the timing of ARAM's development adds to the intrigue of the story.

"We wrote a proposal for the ARAM detector, and it was funded in early 2001," he said. "Then on Sept. 11, the world changed, and the interest in the device grew dramatically.

"The project was bigger than I ever expected it would be. Part of that was the timing, being funded just before the terrorist attacks, and starting work after they occurred. When we started working on the concept, we said, 'Why don't we do something that is similar to what people are doing right now and make it a lot better?' It turned out to be a whole lot more than that."

The media attention the lab received over the next couple of years was overwhelming, according to Archer.

"It definitely was not normal. Normal is doing paper work and maybe getting down to the lab for a couple minutes," he said. "We were getting media requests from all over the country."

He and his fellow researchers also had to deal with the hoopla surrounding visits from Department of Homeland Security secretaries Tom Ridge and Michael Chertoff.

In a statement released after his visit to Livermore, Chertoff said he was impressed with the potential for such a device.

"The science, technology and skills at the lab are precisely what we need to enable us to get real-time detection of radiological hazards and give us the capability to respond and mitigate potential harmful encounters," Chertoff said.

The invention was honored by the R&D 100 Awards, which recognize the most promising new products, processes, materials or software developed throughout the world and introduced to the market. The award-winning technologies and products were selected by the editors of *R&D Magazine*, and a panel of outside experts selected the award-winning technologies and products. Widely recognized in industry, government and academia as a mark of excellence for the most innovative ideas of the year, the R&D 100 Awards are the only industry-wide competition rewarding practical applications of science.

Archer said that scientists continue to work on the ARAM, looking for ways to improve its performance and flexibility. The detectors are commercially available for between $40,000 and $80,000 each.

Just as he was honored with the R&D 100 Award, Archer accepted a position as a nuclear physicist at the Oak Ridge National Laboratory in Oak Ridge, Tenn.

Archer said he is amazed at how many FSU graduates he finds at the national labs where he has worked. The camaraderie he has found among fellow physicists reminds him of his days on campus.

"At FSU, one of the things I remembered most is the family atmosphere among the physics graduate students," he said. "We looked out for each other. Especially among your own class, it really is more like a family. It is competitive only in the good way. Everybody wanted everybody else to succeed."

Daniel Archer field tests equipment

Magnet Lab collaboration yields R&D honor

FSU alumnus Daniel Archer isn't the only FSU-related researcher to win an R&D 100 Award this year.

Scott Hannahs, chief of user research instrumentation at the National High Magnetic Field Laboratory, worked in partnership with Keithley Instruments, a world leader in advanced electrical test instruments, to create a better system for sourcing extremely small currents and measuring extremely small voltages with high accuracy.

This work lead Hannah to a share of one of the prestigious international awards.

The idea of "the smaller the measurement, the better the results" is important because less-intrusive measurements that function at lower electrical currents and voltages are necessary to study the fundamental nature of matter on the smallest scale and at ultra-low temperatures.

"Throughout history, advances in the accuracy of measurement have uncovered gaps in existing scientific theories, leading to new understanding," said Hannahs. "Better understanding leads to new and better technologies."

Florida State Credit Union to sponsor 2006 Bowden Tour

Charlie Barnes
Executive Director Seminole Boosters

What winter we have here in Florida is departing again without having displayed much enthusiasm. Spring can't wait to get here; it's already coaxed the blooms out too early and the balmy weather teases Seminole fans with sweet echoes of glories past.

We don't want to wait till September to see Coach Bobby Bowden in action, and because of the his annual golf tour, we won't have to.

Bobby Bowden looks fantastic. It's easy to see why recruits and their parents are enthralled by home visits from the legendary coach, and why young stars — ambitious to win championship rings — choose Florida State. Rivals try to make much of the age issue, but to an 18-year-old, everyone between the ages of 30 and 100 falls into pretty much the same category. Being 76 may not be as much of a hindrance in recruiting as you think.

This year's upcoming freshman class was born in 1988, Bowden's 13th season as Seminoles head coach. That also was the year of the infamous "Seminole Rap." It was the season we lost to Miami in the opener, and then, won the next 11 games and finished No. 3 in the nation. We were two years into The Dynasty before most of these young men first opened their eyes.

This April and May, we Seminoles are looking for signs of a return to those Dynasty days, and everyone who attends an event on the Bobby Bowden Tour will have the chance to ask Coach Bowden about it. If you live somewhere along the lines between Pensacola and Jacksonville, and between Atlanta and Miami, then Coach Bowden will be coming to a city near you.

Much has changed since we first began The Bowden Tour in the late 1970s, criss-crossing the state in a Buick Skylark packed to the roof with cardboard sleeves of Seminole golf hats. Today, our traveling party cruises in several vans, and much of Bowden's travel is via private aircraft.

Building on a tradition begun two years ago, all the winning foursomes from all the Bobby Bowden Tournaments converge on a football weekend in Tallahassee for the Tournament of Champions, chaired by Max Zahn. Zahn is the architect of the annual Jacksonville Seminole Boosters golf tournament, which made $25,000 for the club last year through a combination of patrons, activities and contributors.

And this year, for the first time, we'll be giving some lucky Seminole a two-year lease to a brand new 2006 Nissan Titan. Any Seminole Booster can sign up to win the full-size, garnet truck with a Seminole head on the hood. Hill Nissan and the FSU Credit Union created the promotion to encourage new membership with the Seminole Boosters and the Credit Union.

The garnet Titan will accompany Coach Bowden on our spring tour and will be on display at every golf tournament and every dinner, as well as on Langford Green this fall. The lucky winner will be announced at the last home football game.

Seminole Boosters produces the annual Bobby Bowden golf tournaments and dinners, and our primary tour sponsor is the Florida State University Credit Union. Its extremely generous annual donations help us bring Coach Bowden to the Seminole Clubs on a timely schedule, offsetting the costs of transportation. Anyone with an FSU affiliation can take advantage of the Credit Union, and becoming a Seminole Booster is the best way to gain access to their financial programs.

Go the Credit Union Web site (**www.fsucu.org**) to find the location of the Bobby Bowden Tour stop closest to you. See the Seminole Boosters Web site for photos and more details about the Nissan Titan and the Bobby Bowden Tour (**www.seminole-boosters.com**).

The annual Bowden Tour always coincides with the mailing of football season ticket packages. This year, especially, there may be a lot of questions about changes to the Point Priority system that take effect in 2006. Personal letters were mailed, beginning in January, to all season ticket holders explaining in detail how each donor is affected. Jerry Kutz, who directs the Boosters Annual Fund, reports that we've gotten a very good response so far.

"Boosters understand the program," he said. "People realize that our ticket prices and Booster giving categories are generally priced lower than our competition."

But Kutz and all of us in Seminole Athletics are also aware that many of our Boosters have to spend money to travel to Tallahassee on game weekends, whereas our rivals' supporters do not. There are nine million people within 150 miles of Gainesville. I doubt that we even have that many livestock within the same radius of Tallahassee.

Kutz said there's no doubt that our Seminole fans tend to be more loyal and generous.

"I do want to thank all our Boosters who have responded," he said. "Our donors seem to understand. As the cost of scholarships goes up, we're the ones who have to pay the bills or the Athletics program."

One way we can reduce the financial burden on season-ticket holders, Kutz suggested, is to add more numbers of new Seminole Boosters.

"Every Booster ought to take it on himself or herself to bring a friend to the Bobby Bowden Day and sign them up to be a new Booster. If they sign up on the spot, they'll also have a chance to get that two-year lease on the Nissan."

NEWS NOTES ALUMNI

Compiled by Kathy Harvey and Sarah Broz

Got News?

To submit items for Alumni News Notes, e-mail kharvey@mailer.fsu.edu. Please write "Alumni News Notes" in the subject heading of the e-mail.

1956

William J.P. Smith Jr. (B.S.) has been named acting president of the Southern California Seminole Club.

1957

Edna Runnels Ranck (B.A.) is president-elect of the U.S. National Committee of the World Organization for Early Childhood Education. Ranck also received a service appreciation award from the National Association of Regulatory Administration.

1961

Betty L. Siegel (Ph.D.) received the Morehouse College Martin Luther King Jr. International Chapel's Howard Washington Thurman Ecumenical Award. The award is given to honor those who made significant contributions to humanity in interfaith, interdenominational and interracial spiritual and ethical development.

1963

Charles H. Calhoun (B.S., M.A.C.C.'67, D.B.A.'73) has been appointed as chair of the International Accounting Education Standards Board, Consultative Advisory Group.

1965

Stephen R. Montague (B.M., M.M.'67) is planning to release "Facing the Carnyx," a CD of his piano works, NMC label, UK. It will be released April 2006.

1967

George B. Armstrong (M.S.W.) covered the impact of Hurricane Katrina in Mississippi as a photographer for the Department of Homeland Security, public affairs section, and Federal Emergency Management Agency. Photos can be viewed at www.fema.gov.

Daniel N. Gaultney (B.M.E.) has sold his first novel, "The Echo of Death," a supernatural fiction thriller, to Publish America, Baltimore.

1969

Michael M. Fields (B.S.) was appointed as director of The Florida Bar Foundation.

1973

W. Alan Smith (B.A.) participated in the August 2005 Oxford Round Table on Religion, Education and Public Policy. He presented a paper, "Faith-Based Initiatives Meet the Public Schools: Florida's School Voucher Program and Its Effects on Education, Faith and Public Policy." Smith also was selected as a "Who's Who Among America's Teachers," fall 2005.

Molly J. Tasker (J.D.) spent October and November 2005 in Baghdad where she was working as a contract consultant with the U.S. Department of State and the U.S. Regime Crimes Liaison Office, supporting the Iraqi High Tribunal, which is hearing the war crimes trials of Saddam Hussein and other ranking officials of the former regime in Iraq.

1974

Linda Grommes Cooper (B.S.) has been elected to the Valley of the Sun YMCA corporate board, Phoenix, Ariz.

1976

Robert E. Ladd (B.S.) is senior director of commercial properties for the Greater Orlando Aviation Authority at Orlando International Airport.

1977

Col. **Terrel S. Preston** (B.S.) has retired from the U.S. Air Force following a 28-year career as a fighter pilot, communications specialist and operational commander.

1978

Richard B. Bensinger (B.S.) is a senior vice president for business development with Science Applications International Corporation and a retired lieutenant colonel in the U.S. Air Force.

1980

Stella Bagley (B.M.E.) is the CEO and owner of 1source International, LLC, a global audio, video and Web-conferenceing company.

Jim Mayfield (B.S.) has been named president of Sprint North Supply, Gardner, Kan.

John H. Wyche (B.S.) helped organize the Escambia County Community Land Trust Inc. to relieve the shortage of homes for low and moderate income residents in Escambia County, Fla. Through loans, state funds and donated labor, the land trust is designed to provide low-cost homes for ownership.

1981

Sally Still (B.A., J.D.'91) was named to the editorial advisory board of Thompson Publishing Group's publication, "The Employer's Guide to the Fair Labor Standard's Act."

1982

Thomas Eads (Ph.D.) has opened a new gallery in Tallahassee featuring photography, painting and sculpture of contemporary artists of the Southeast.

Chris Henning (B.S.) was promoted to president of the retail division at Tempur-Pedic International, Lexington, Ky.

Capt. **Cathy S. Knowles** (B.S.) is commanding officer of the U.S. Navy's Trial Service Office West, San Diego, Calif. Previously, she served as staff judge advocate for the commander, U.S. Naval Forces Central Command, Manama, Bahrain.

Micheal C. Tillmans (Ph.D.) was selected to serve as president for the 2007 term of the Chicago Chapter of the International Society for Performance Improvement. ISPI is a professional society of human performance technologists, instructional designers, evaluators and e-learning specialists.

1983

Julie V. Barroso (B.S.N.) received the 2005 President's Award from the Association of Nurses in AIDS Care.

Micheal A. Vaughn (B.S.) and **Joe Douglas** (B.S.) opened 131 Main, a restaurant specializing in American dishes, Cornelius, N.C.

1984

Joe A. Wessel (B.S.) has been promoted to regional president for Central and North Florida with HomeBanc Mortgage.

Peter A. Witherell (B.A.) was elected to the board of directors for the National Committee on Planned Giving. The National Committee on Planned Giving is the professional association for individuals whose work includes developing, marketing and administering charitable planned gifts.

1985

Herbert W. Fiss Jr. (B.S.) has been named a certified member to The Million Dollar Advocates Forum, a select group of trial lawyers in America.

Donald L. Jones (Ph.D.) has been named to a three-year term on the board of directors of the Medical Fitness Association, which began in 2006. The association is an affiliate of the American Hospital Association.

1986

Brian R. McClain (M.S., M.S.'87), a teacher at Amos P. Godby High School, developed a science lesson and experiment on the investigation of the unity and diversity of life via protein analysis of tissue, with the aid of an American Physiological Society "mini-grant," Tallahassee, Fla.

Robert N. Ross (B.S., B.A.) was selected by the U.S. Department of Defense for the 2006 Legislative Fellows program of the Brookings Institute.

1987

Thomas R. Park (Ph.D.) was appointed director of athletics at Liberty University, Lynchburg, Va.

Connie Cooper Shepherd (B.S.) is the vice president of channel business development for the Kellogg Company.

Gregory P. Thomas (B.M.) has been appointed the director of information technology for Schermerhorn Symphony Center, Nashville, Tenn.

1988

Mark R. Arrigo (B.S.) has been elected to the partnership of KPMG LLP, an audit, tax and advisory firm. He currently provides tax services to state and local clients in the Tampa area.

Roland M. Edwards (B.A.) was promoted to the rank of lieutenant colonel and assigned as an instructor at the U.S. Army Command and General Staff College, Fort Leavenworth, Kan.

1989

Lt. Col. **Mickey L. Quintrall** (M.S.) has been selected for promotion to the rank of full colonel in the U.S. Air Force. He is currently a student at the Air War College at Maxwell Air Force Base, Alabama.

Steven D. Seay (B.S.), an independent AFLAC Insurance agent representing Blountstown and surrounding Northwest Florida communities, has completed his 11th season as the football color commentator on the radio broadcast team of the Blountstown High School Tigers, and his 12th year overall with the broadcast.

Robert J. Thompson (B.S.) was named public defender and chair of the Sauk Valley Community College Board of Trustees, Lee County, Ill.

1990

Dr. **Gwendolyn Becker O'Keefe** (B.S.) has been appointed assistant professor of medicine in general internal medicine at the Medical College of Wisconsin. O'Keefe is also the medical director of the Froedtert & The Medical College General Internal Medicine Clinic at Froedtert East Hospital.

1991

Brett DeHart (B.S.) has been appointed as an associate pastor at United Methodist Church, Roswell, Ga.

Tracy Stack Johnson (B.S.) has been appointed a regional director by the International Council of Gamma Phi Beta.

Phillip S. Kincaid (B.S.), along with more than 470 U.S. Navy reservists, was mobilized from Naval Expeditionary Logistics Support Force Charlie and deployed to Iraq and Kuwait in support of the global war on terrorism.

Kara Sproles Mock (B.S.) was recognized as The State newspaper's "20 under 40,"rising stars under 40, Columbia, S.C.

1992

Stephen S. Galbreath (B.S.) has been elected to the partnership of KPMG LLP, an audit, tax and advisory firm. He currently provides audit services to industrial products, real estate and construction clients in the Orlando area.

Korey E. Lowry (M.A.) joined the staff of Presbyterian Church (USA's National Ministries of Leadership and Vocation as the associate for certification and Christian vocation.

Barbara McCann Ryder (M.S.) is the president of The Perfect Purse, LLC, a Web site specializing in one-of-a-kind and limited-edition handcrafted handbags and travel accessories.

1993

John M. Crossman (B.S.) was given FSU's Networking Conference Award. Crossman, a principal at Trammell Crow Company, heads its east coast retail investment services division in Florida.

Edward G. Rawls Jr. (B.S.) was appointed as the regional inspector supervisor for the Inspector General's Gainesville field office at the Florida Department of Corrections. The I.G.'s office conducts internal affairs and criminal investigations.

Michael A. Sexton (B.S.) has been promoted to shareholder of GrayRobinson, Tampa, Fla.

1994

Seth L. Shortlidge (B.S.) has joined Pierce Atwood LLP in the law firm's Concord office. Shortlidge's practice focuses on energy and public utility law, Portsmouth, N.H.

1995

Robin Sankowski Greener (B.S.) has earned her Ph.D. in adult education at the University of Georgia, May 2005. She recently joined the University of Connecticut as a faculty member in educational leadership.

A. Joseph Paradise (B.S.) has been elected to the partnership of KPMG LLP, an audit, tax and advisory firm. He currently provides audit services to consumer and industrial market clients in the Jacksonville area.

1996

Natasha Berloff (Ph.D.) has been awarded a Pilkington Teaching Prize by the Jesus College, University of Cambridge. Berloff is currently a lecturer in applied mathematics at the university.

Stephanie J. Rea (M.M., D.M.'99, M.M.'00) released the new flute CD, "Solo French and American Flute Works."

Gilbert Abcarian

Gilbert Abcarian

Gilbert Abcarian, 80, professor emeritus of political science at Florida State University, died Feb. 8.

Abcarian taught at FSU from 1967 to 1992, and served as chairman of the Department of Government, now Political Science. He was the author of numerous academic books and papers in the field of government and studied political theory and women's studies. He was a member of the American Political Association.

Born May 5, 1925, in Fresno, Calif., he initially studied music at the University of California before his entry into the armed services. During World War II, he was stationed with the U.S. Army Air Corps in Germany and played in the military band with jazz legend Dave Brubeck. Abcarian returned to school and received his master's in political science from the University of California at Berkeley and, in 1957, his doctorate.

Lloyd Elfner

Lloyd Elfner

Lloyd Elfner, 82, a retired Florida State University professor of psychology who taught from 1967 to 1992, died Dec. 8, 2005.

Elfner specialized in doing research on human hearing, evoked potentials, psychoacoustics, sound localization, thresholds, biofeedback and relaxation training procedures. He received his doctorate from the University of Wisconsin and taught at Kent State University in Ohio before coming to FSU.

Phillip Fordyce

Phillip Fordyce

Phillip Fordyce, 77, a lauded Florida State University administrator and nationally recognized leader in biology education, died Feb. 21. Fordyce came to FSU in 1963 as an assistant professor, but over the years, was asked to fill many roles.

He held several key administrative posts at FSU, including dean of the College of Education, 1969-1974; provost for the Division of Professional Schools and Colleges, 1974-1977; special assistant to the president; assistant chief executive officer, 1977-1980; interim athletic director, 1979-1981; and associate chief executive officer, 1981-1982.

He also directed International Programs for five years and co-directed the Florida/Costa Rica Linkage Institute for seven years. In addition, he served as the first director of licensing for the Seminole Boosters. He retired in 1994 after 31 years with FSU.

George Harper

George Harper

George Mills Harper, 91, professor emeritus of English literature at Florida State University, died Jan. 29. Harper was named a Robert O. Lawton Distinguished Professor, 1979-1980, and he served as chairman of the English department from 1970 to 1972. He retired in 1990.

Harper was an author and editor of 12 books, primarily concerning the Irish poet William Butler Yeats. He received an honorary Doctor of Letters degree from Trinity College, Dublin, Ireland, for his contributions to Yeats studies. Before coming to FSU, he served as professor and dean of the College of Arts and Sciences at Virginia Tech, and chairman of the English departments at the University of Florida and the University of North Carolina.

Born Nov. 5, 1914, in Linn Creek, Mo., Harper served in the Navy from 1942 to 1946 and retired from the Naval Reserve as a commander.

Tom Nugent

Tom Nugent

Tom Nugent, a former FSU head football coach and athletics director, died in January at age 92. Nugent led Florida State to a 34-28-1 record and two bowl games during his tenure between 1953 and 1958. He also coached the school's first game against the University of Florida Gators.

In 1958, the Seminoles went 7-4 with a schedule that included four Southeastern Conference opponents. Florida State defeated Tennessee 10-0 at Knoxville.

Nugent took the Seminoles to their first New Year's Day bowl game in 1955. They were defeated in the Sun Bowl by Texas Western 47-20. In 1958, Florida State lost to Oklahoma State, 15-6, at the Bluegrass Bowl in Louisville.

Nugent was credited with developing the I formation at Virginia Military Institute, and later, coached at FSU and Maryland.

A member of the College Football Hall of Fame for his innovations, Nugent also was credited with creating the "typewriter" huddle where players stood in two rows, rather than a circle, while plays were being called.

IN MEMORIAM

1920-1929

Esther "Sunny" Saunders Weaver (B.A.'27), Neta Barham Wellford (B.A.'29)

1930-1939

Anna Eugenia Boone Mauzy (B.S.'31), Greta Schmitt Reid (B.S.'31), Miriam Leibovitz Hirsch (L.I.'32), Margaret Smith McMillan (L.I.'33), Marie Edewaard Smith (L.I.'33), Evelyn L'Abbe Barnawell (B.S.'35), Barbara Garfunkel (B.A.'35), Yulee Way Lazarus (B.A.'36)

1940-1949

Constance J. Ash McChristian (B.S.'40), Gladys E. Pinder (B.A.'40), Martha VanBrunt Smart (B.A.'40), Amelia Black Bow (B.S.'41), Erna Williams Palmer (B.S.'41), Elaine M. Hundertmark (B.S.'42), Lora A. Botts (B.S.'43, M.S.'69), Gloria Johnston Sparkman (B.A.'43), Jane Sims Reynolds (B.S.'45), Nancy Fitzpatrick Pinson-Millburn (B.S.'47), Carolyn Allison Spikes (B.S.'47), Martha Maguire Jennings (B.A.'48), Helen Fender O'Quinn (B.A.'48), Dorothy Burnham Hawksley (B.S.'49), John M. Weatherly (B.A.'49)

1950-1959

Barbara Southard DeLoach (B.S.'50), Edith Leppan Ferris (B.S.'50), Whitfield Wade Barrier (B.S.'51), Alva Lynn Revell (B.S.'51), Dr. Roger Slater (B.S.'52), Sara Margaret Davis Martin (B.A.'53), George N. Spurling (B.S.'53), Col. (R) Phyllis A. "Pat" Carter (B.S.'54), Virgina Gay Hamrick Laffitte (B.A.'54), Doris Partin Schautteet (B.S.'54), Ruth Jones Weekes (B.S.'54), Josephine Bowen Weeks (B.S.'54), Gladys Russ Parrish Lanford (B.S.'55), Barbera Boozer Parmer Andreasen (B.A.'56), Ruth Marie Mayhall (M.S.W.'56), Joan Cullbreth Parker (B.S.'56), Spencer Nottingham Roads (B.S.'56, M.S.'59), Katharine Jacobs Summerall (B.S.'56), William C. Holt (B.A.'57), Fred E. Tolbert (B.S.'57), Shirley Seaman Trawick (B.S.'57, Ph.D.'90), Joe Fizzell (M.A.'58), Lawrence H. "Bud" Hess Jr. (M.S.'58), Raymond L. Marky II (B.S.'58), Grady W. Wilson (M.M.'58), Clarence L. Allen (M.S.'59), William V. Bunker (B.A.'59), Hillery deBen (M.S.'59), Peter Malphurs (B.S.'59), Laura Cheek Ward (B.A.'59)

1960-1969

John J.S. Murphy (M.A.'60), James H. Prescott (B.S.'60), David E. Smith (B.S.'60), Lena Reddick Suggs (M.S.'60), Flora Gilbert Weiss (B.S.'60, M.S.'62), Bonnie Fretwell Blake (B.A.'61), Charles M. McAllister (B.S.'61), Clarence W. Singletary (M.S.'61), Patricia Davis Resor (B.S.'62), Grace Elizabeth Howell Frizen (M.S.'63), Henrietta "Hinkie" Fishburne Hudson (B.S.'63), Nicholas A. Pender Jr. (B.S.'63), Diane Reiter Petersen (B.S.'64), Ronald D. Stainthorpe (B.S.'64), James H. Collins (B.S.'65), Linda Tate Gangloff (B.S.'65), Walter V. Hinton III (B.S.'65), Gary M. West (B.S.'65), Diane Bishop Williams (B.M.'65), John M. Brogle Sr. (B.S.'66), Capt. (R) Paul H. Durand (M.S.'66), Margaret Hunter Foy (B.S.'66, M.S.'79), James F. Mankins (B.S.'66), William L. Thomas Sr. (B.S.'66), Patricia Johnson Wettengel (B.S.'66), Benjamin Rush Cowherd IV (B.S.'67), Jeanne Gallien Culbertson (B.A.'67), Nickolas T. Pappas (M.S.'68), Robert D. Gray (B.S.'69)

1970-1979

Mary Healy Abston (B.S.N.'70), Tom Markin (M.S.'70, Ph.D.'73), Bruce W. Terrell Jr. (B.S.'70), Stella Burawa Antosh (B.S.'71), Betsey Komarek Cooke (B.S.'71, M.S.'73), Sarah Anne "Sally" Kitching Evans (B.S.'71), George K. Williams (Ph.D.'71), Wayne F. Betts (M.S.'72), Thomas J. Hidding (B.A.'72), William Paul Mahoney (B.S.'72), Betty Jean Pittman (M.S.'72), Laura Mandell Zaidman (Ph.D.'72), Donald L. Chancey (B.S.'73), Dennis R. Poelcher (B.A.'73), Deborah Stewart Karch (B.S.N.'75), Jeffrey L. Patterson (B.S.'76, M.S.'78, Ph.D.'85), G. Keith Quinney Jr. (J.D.'76), Steven A. Knight (B.S.'77), Cynthia Davis Malloy (B.S.'77), Robert I. Felch (D.B.A.'78), Jane E. Abel (B.S.'79), Gregory M. Cameron (B.S.'79), Bruce W. Griffin (B.S.'79, M.B.A.'81)

1980-1989

Carl C. Crandell (B.S.'80, M.S.'81), Darrell L. Jones ('81), Joyce Copeland (M.S.W.'83), Judith Kenyon Duvall (B.S.'89), Judy Olivarez Groover (J.D.'89), Martine Ostap (M.S.'89), Louisa Panou-Takahashi Welty (D.M.'89)

1990-1999

Sherry Dietrich Caywood (B.S.'91), Claude T. Lovelace II (B.S.'93), Anne M. Easter (B.S.'94), James F. Sneed (M.S.W.'94), Brian K. Anderson (B.S.'96), Shan Jasper Fleming (M.S.W.'99)

2000-2006

Seth Gregory Matthew Rossetti ('05), Stephen C. Smith Taylor ('05), Steven T. Brill ('06), Brian Falcon ('06)

FACULTY AND STAFF

Robert Barrett, Christopher J. Codd, Dona Gebhardt, Louise Goldhagen, Allen W. Imershein, Elsie Peddie, Grant Richardson

Paul Piccard

Paul Piccard

Paul Piccard, 82, a highly respected political science professor at Florida State University, who had a distinguished professorship named in his honor by the FSU Department of Political Science, died Feb. 22.

Piccard's writings on American government appeared in numerous books and journals, and he was particularly interested in the Electoral College system of voting. Piccard served as director of the FSU Honors Program, and was president of the university Faculty Senate.

Piccard, who taught at FSU from 1953 to 1993, donated the Paul J. Piccard Papers to the FSU Special Collections Department in 2002.

Piccard earned his bachelor's and master's degrees from the University of Minnesota and a doctorate from the University of Texas. He was an army infantryman during World War II.

Evelyn Singer

Evelyn Singer

Evelyn Jeannette Trendel Singer, the dean emeritus of the Florida State University School of Nursing and a former president of the Florida League for Nursing, died on Jan. 1, 2006, in Brecksville, Ohio. She was the FSU dean of Nursing from 1984 to 2001, and retired from teaching in 2005. She came to FSU from Old Dominion University in Norfolk, Va., where she was the chairperson and a tenured professor of nursing. Singer's academic background included a doctorate in nursing from Marquette University in Milwaukee, Wis. Prior to that, she received both a baccalaureate degree and master's degree from Wayne State University.

While at FSU, Singer was responsible for establishing the master's program in nursing through grants received from the U.S. Department of Health and Human Services.

Minimize taxes and make charitable donations in the process

Charitable giving and tax planning can co-exist, and can be mutually beneficial if you follow a few tips. When you decide you want to financially support a charitable organization, such as Florida State University, there are

Jeff Ereckson
Director
Planned Giving
FSU Foundation

a few items to consider before making a gift:

•Each time you make a contribution worth $250 or more to a qualified charitable organization and you wish to claim this gift on your tax return, the IRS requires a charitable receipt from the organization.

•Giving long-term, appreciated stock can provide you a tax break. You avoid capital gains taxes on the profit, and can deduct the full value of the stock as a charitable donation.

•You also can set up a charitable remainder trust. If you donate appreciated stock or property to the charitable remainder trust, you get a tax deduction for a portion of the current asset value the year you do so. The trust pays you income for a set number of years, or over your lifetime.

•Stock or mutual fund holders can offset capital gains from winning stocks by selling some of their losers. You can apply up to $3,000 in losses against ordinary income, reducing the amount of income on which you must pay taxes. If you have more than $3,000 in stock losses, you can carry the losses forward to deduct in subsequent years. Even if you like a losing stock or fund that you sell, however, don't buy it right back. Under the federal "wash sale" rule, you must wait 31 days.

•Despite the stock market's fluctuations, those who are working should still contribute the maximum to tax-deferred retirement accounts such as a 401(k) or 403(b). Your account will get a chance to grow tax-free by compounding over time, so start contributing early. You can put in up to $15,000 in 2006, and if you are aged 50 or older, you can contribute an additional $5,000.

If you have any questions, we can be reached at 850-644-0753, or at **plannedgiving@foundation.fsu.edu**.

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