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 recent open house, Larbalestier heard the National User Facility in Tallahassee, which is unique in the Western Hemisphere and which attracts researchers from all over the world, figure prominently in a decision made this past fall by the scientist-in-residence 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 field 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 these 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.”

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 an obituarist at Berkeley,” Larbalestier said. “I was just married, and my wife said to me, ‘If you don’t like 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 superconductors.”

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 life 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...
Earle contends the future of our world is in the oceans

(Continued from page 1)

In the latter half of the 20th century, the number of dead zones worldwide have increased dramatically. Earle said, “If we continue to allow the oceans and its marine life to be destroyed, then we will have created a world that is not sustainable.”

Earle told the audience that the Harte Research Institute Marine Laboratory in Port Isabel is a prime example of how innovative and collaborative research is being done to help protect the oceans and its inhabitants. The laboratory is a partnership between Texas A&M University-Corpus Christi and the University of Texas at Austin, with support from the National Science Foundation. The laboratory is home to a number of research centers, including the Center for Marine Biodiversity and Conservation, the Center for Marine Biotechnology and Technology, and the Center for Marine Geology.

Earle concluded her presentation by encouraging the audience to support ocean conservation efforts. She said, “We must act now to protect the oceans and its marine life before it’s too late.”

The audience was grateful for Earle’s insights and her passion for ocean conservation. Many thanked her for her time and for sharing her knowledge.

(Continued from page 1)

In a nutshell, the combination of superconductivity and magnetism, Earle said, “is essentially forever — in one form or another.”

In particular, what Earle finds most exciting is the potential to create new technologies that could revolutionize the way we live.

“I think it’s really exciting to be a part of this revolution,” Earle said. “And I think it’s really exciting to be able to work with people who are really passionate about what they’re doing.”

Earle thanked the audience for their attention and for their support of ocean conservation efforts. She said, “Thank you for listening, and thank you for caring about our oceans.”

The audience was grateful for Earle’s insights and her passion for ocean conservation. Many thanked her for her time and for sharing her knowledge.
The history of the Florida State University, including its founding in 1851 and the evolution of its campus, is rich with achievements and contributions. From its early years as a land-grant college to its current status as a major research university, FSU has made significant strides in education, research, and community service.

In 1851, the Florida General Assembly granted the University of Florida and the University of West Florida a total of 1,000 acres of land for the establishment of a state university. Despite this funding, the university struggled financially and faced many challenges. However, with the support of prominent figures such as Dr. John Thruston, the university began to grow and attract students.

By 1875, the university had established a library and begun to offer courses in various fields, including law and medicine. In 1886, the university was granted the authority to offer instruction in law, and in 1892, the College of Medicine was established, becoming the first medical school in the state of Florida.

Throughout its history, the university has made significant contributions to the state and the nation. For example, the university was a leader in the development of the polio vaccine and was a pioneer in the field of computational science. Today, the university continues to be a leader in research and education, with a strong commitment to community service and civic engagement.

In addition to its academic programs, the university is home to a number of distinguished athletic teams, including the football and basketball teams. These teams have won numerous championships and have helped to bring national recognition to the university.

While the university has faced many challenges throughout its history, its commitment to excellence and its dedication to serving the community have remained steadfast. Today, the university continues to be a leader in higher education, with a strong commitment to providing a world-class education for its students.
Former student body president elected to Florida House

By Dave Flor

Florida Rep. Trey Traviesa, R-Tampa, credited much of his success in business and politics to the example of his family and being a business student at Florida State University. He
grew up with a mom who was a language-arts teacher and a dad who
was a professor and chair at the college. Traviesa spent 12 years working and getting his MBA from the University of St. Thomas — getting the experience he was looking to build.

"The core reason for this is my communications skills, and studying Eng-
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communications skills, and studying Eng-
lish at FSU helped me understand complex

"I fell in love with the campus and decided that was where I belonged. She still
serves me exceptionally well." Traviesa said about half his time is spoken for.

"Florida is a huge state with an enormous
diversity, and it helps bring my family closer together
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From one cell, many possible cures
FSU researcher’s device provides a major boost to adult stem-cell research

By Barry Ray
Office of News and Public Affairs

A single cell with the potential to repair damaged heart muscle — regenerate injured bone or create new cartilage — could solve medical problems that have defied treatment for decades. And stem cells are just the beginning.

In the mid-1990s, Daniel Archer developed an interest in re- ditional research and application, and received significant research funding from the National Institutes of Health to explore a new expansion strategy for a variety of medical treatments for a variety of medical problems. He explained that stem cells can change into something totally different from the original population when they are cultured outside the body.

The engineering challenge, then, is to create not only a large quantity of cells, but cells with the desired properties. Our goal is to explore a new expansion strategy for a variety of medical treatments for a variety of medical problems.

April-May 2006 / By Barry Ray

By Dave Fiore

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Adaptable Radiation Monitoring Devices

A breakthrough in radiation technology could lead to improved safety for first responders.

According to the Tulane Center for Gene Therapy, the Probably the best response to the question “What is a stemcell?” is simply “Any cell with the potential to form any other cell in the body”.

The idea of “the smaller the measurement, the better the results” is important because less-intrusive is such a simple system. There are no moving parts. You do everything. You build it from concept to published paper — from concept to published paper — from concept to published paper — from concept to published paper — from concept to published paper — from concept to published paper.

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In Memoriam

Tom Nugent

Tom Nugent, assistant professor of English and director of the English Language Institute at Florida State University, died Jan. 26. He was 53. Nugent taught at FSU since 1982, served as chairman of the English department from 1991 to 1994, and was a full professor of English. He was director of the English Language Institute at FSU for 12 years, prior to becoming chair of the English department in 1991. He was also director of International Programs in Florida State University's English Department.

Nugent was born on Jan. 26, 1950, in Kansas City, Mo. He received his B.A. in English from the University of Missouri in 1972, his M.A. in English from the University of Georgia in 1974, and his Ph.D. in English from the University of Florida in 1982. Nugent taught at FSU since 1982, served as chairman of the English department from 1991 to 1994, and was a full professor of English. He was director of the English Language Institute at FSU for 12 years, prior to becoming chair of the English department in 1991. He was also director of International Programs in Florida State University's English Department.

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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 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.

Evelyn Singer

Evelyn Jeanette Trendel Singer, the dean emerita 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 1994, and retired from teaching in 2000. 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.

Jeff Erickson
Director
Planned Giving
FSU Foundation

Minimize taxes and make charitable donations in the process

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