



2017 Research Park at FAU Report to the Community

Scientific & Collaboration Highlights

- Each year Dr. Silvia Pella teaches between 3 and 8 master's students and Ph.D. candidates at Florida Atlantic University while also maintaining a full schedule of patient consultations and treatment at South Florida Radiation Oncology/21st Century Oncology (SFRO), a feat made less difficult by the fact that SFRO has a facility in the Research Park at FAU, adjacent to campus. Dr. Pella teaches in the classroom as well as 'in the field', next door in the Research Park at FAU.

All medical physics students are required to do a practicum. The difference at FAU is that Dr. Pella's students work alongside her with patients, operate and calibrate machinery – including the newest linear accelerators and are therefore able to present at scientific conferences and contribute to scholarly activities such as the 6 presentations and papers produced in 2017 alone.

In addition, Dr. Pella demonstrates her passion and commitment to both medical physics and FAU by creating a scholarship for future students to be able to excel in the field.
Relates to metric 2

- Biim Ultrasound announced that its Biim® linear probe and Biim® software app received FDA clearance as a diagnostic ultrasound system.

The Biim® Diagnostic Ultrasound System is intended for diagnostic ultrasound imaging for the human body. Specific clinical applications include musculoskeletal, needle guidance, pediatric, peripheral vessel and small organs, and has been developed, in part, by licensing FAU-developed technology.

- Florida Atlantic University's Charles E. Schmidt College of Medicine recently hosted a ribbon-cutting ceremony to commemorate the official launch of its newly expanded, 15,000-square-foot, state-of-the-art Clinical Skills Simulation Center in the Research Park at FAU.

Simulation exercises use high fidelity human-like mannequins that can simulate virtually any type of medical emergency. Simulation of various medical scenarios ensures that medical professionals can practice their skills hands-on in an environment that promotes problem-solving, critical thinking, and clinical skills integration. FAU medical students also practice their clinical skills and hone in on their bedside manner while working with "standardized patients," who are actors posing as patients. Working with standardized

patients enables them to self-reflect and improve their humanistic and empathetic approach to patients. The educational clinical scenarios greatly enhance the students' communication skills and confidence before working with real patients.

Since its inception, FAU's simulation center has trained more than 3,000 practicing nurses, hundreds of medical residents, hundreds of medical students and has addressed the training needs for adult living and skilled nursing facilities. The center will continue to train all four years of FAU's medical students. FAU's medical school also is planning to provide inter-professional communication training as well as medical resident training to further expand collaborative clinical experiences for its participants.

- FAU Tech Runway released its 3rd economic impact study. In just three years, 298 jobs and 94 internships have been created; 53 FAU students have been employed; 139 corporate partnerships have been created; more than \$23 million in revenue has been earned; and more than \$46 million investment capital has been raised.

These achievements have required relatively modest state investment. Florida Gov. Rick Scott approved \$1,016,115 in funding for FAU Tech Runway[®] in the 2017-18 state budget. FAU Tech Runway[®] has proven itself to be a good return on this investment; for every \$1 million in public investment received, \$19.4 million is put back into the economy. *Possibly relates to metric 10*

- Dioxide Materials and the Institute for Sensing and Embedded Network Systems Engineering continued their partnership in the area of whole-building CO2 monitoring for whole-building CO2 sensing and demand control ventilation. The team submitted a joint proposal to the ARPA-E SENSOR program (Saving Energy Nationwide in Structures with Occupancy Recognition), and a subsequent concept paper to the ARPA-E OPEN program. Dioxide Materials additionally engaged the FAU team on an existing NOAA effort through a sub-award, focused on hardware support for a new version of Dioxide Material's CO2 sensor for in-water applications. *Relates to Metric 1*

For more than 30 years, the Research Park at FAU has been an integral part of the University community. By having forward-thinking companies employ our students right on campus, we have been able to provide a rich academic experience and bestow upon students the opportunity to explore real world applications for their studies. – Dr. Gary W. Perry, Provost

Business Highlights

- Modernizing Medicine was named to the Inc. 5000 for the 3rd year in a row, coming in at #1049 in 2017.
- U.S. Representative Ted Deutch visited Dioxide Materials to celebrate Economic Development Week. "Entrepreneurship is an essential component of a strong community and a strong economy," said U.S. Rep. Deutch. "The Research Park at FAU provides hands-on STEM learning opportunities and fosters an environment where startups can thrive. It's an exciting time for startups in South Florida, an area that is quickly becoming a national leader in technological innovation."

“Dioxide Material’s work could have an important impact on the development of sustainable systems for buildings and vehicles, creating long-term jobs and Congressman Deutch’s visit is an important validation of our efforts,” stated Dr. Rich Masel, president and chief executive officer of Dioxide Materials. “Federal support of our research, primarily through ARPA-E has been instrumental in getting the technology to the point of commercialization.”

“Companies like Dioxide Materials in the Research Park at FAU are advancing research in partnership with academic researchers and students which amplifies their economic impact over the long-term,” said Andrew Duffell, president and chief executive officer of the Research Park at FAU. “With start-ups playing such an important role in job creation, research parks are vital components of our economic development strategy.”

- Modernizing Medicine announced \$231 Million equity investment from Warburg Pincus.
- MobileHelp®, a leader in mobile medical alert and personal health management solutions, announced that it signed a definitive agreement to be acquired by ABRY Partners, a Boston-based private equity firm with a long track record of investments in mission critical business and information services companies.
- GrowFL named Yachtico Inc., a company within the Research Park at Florida Atlantic University®, a “Florida Company to Watch.” Yachtico is a platform that connects customers who want to rent or charter boats with fleet operators and boat owners. Since 2012, the Research Park at FAU has housed four companies that have been named “Florida Companies to Watch.”
- Boca Raton Andriod Developers is a group for anyone interested in Android development. It doesn't matter if you are new to Android development or a seasoned professional, all skill levels are welcome.
- BocaVR is a community of VR developers, instructors, entrepreneurs, investors, engineers, artists, and early adopters. An open demo policy with plenty of time for demos. BocaVR's goal is to promote affordable and accessible immersive virtual reality and augmented reality to serve, develop, and promote an open, diverse, and healthy consumer VR and AR ecosystem.
- The South Florida PHP Users Group (SoFloPHP) exists to unite and grow the PHP (programming language) community of South Florida. With events in the Palm Beach, Boca Raton, Ft. Lauderdale, and Miami areas.
- Aerospace Technologies Group, Inc. (ATG), market-leading specialist in the rapid design, development and production of advanced technology, highly innovative, aerospace grade interior components and systems, was named a finalist for the Florida Sterling Manufacturing Business Excellence Awards.

Selected for the commitment to continuous improvement, manufacturing best practices and performance excellence, ATG was recognized along with 28 of the state’s high-performing manufacturers for providing high-wage careers and high quality products and processes by the Florida Sterling Council in partnership with FloridaMakes.

“To be chosen as a finalist among such an outstanding group of companies is an honor,” said Simon Kay, President & CEO. “ATG is excited to contribute to the growth of business to our great state of Florida.”

Companies were judged on six criteria: leadership, strategic planning, customer and market focus, measurement, analysis and knowledge management, workforce and operations.

Research Park at FAU Awards

Distinguished Researcher: Ken Dawson-Scully, Ph.D. is currently a tenured associate professor in the Department of Biological Sciences in FAU's Charles E. Schmidt College of Science, a visiting investigator at The Scripps Research Institute-Florida, and a faculty member at the International Max Planck Research School. Dawson-Scully has created two biotech companies that have been incubated in the Technology Business Incubator®, bringing new innovation and possibilities to market. *Relates to metric 1*

Distinguished Entrepreneur: Robert S. Flippo has worked in both start-up environments as well as Fortune 500 companies over the last 16 years. Flippo has experience in forming high-performance teams and has held executive roles at high-tech companies such as Motorola, Boca Research, and Emergin, Inc. Flippo has grown Research Park-based MobileHelp from a one person venture to a sustainable company of almost 200 employees that was recently acquired by private equity company, Abry Partners. *Relates to metric 7*

Distinguished Leader: Jeff Atwater was elected to the Florida House of Representatives in 2000 and then to the Florida Senate in 2002 where he went on to serve as president. After leaving the Senate, Atwater successfully ran for election as the state's chief financial officer. In that capacity he oversaw the financial affairs of the world's 16th largest economy. Atwater recently began his new role as vice president for strategic initiatives and chief financial officer at Florida Atlantic University. Atwater's role in diversifying Florida's economy and positioning its finances for the future have contributed to the Research Park's mission immensely.

Distinguished Organization: Boca Raton Airport Authority manages the Boca Raton Airport (BCT), which is a major economic engine and asset to both Boca Raton and all of South Florida. The economic impact of BCT totals \$173.8 million. The U.S. Customs and Border Control building at BCT is set to open at the end of this year, enabling aircraft to clear customs at BCT without having to land at nearby airports.

Economic Impact of Research Park at FAU activities*

**does not include FAU Tech Runway impacts*

