

PRESS RELEASE
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Archimedes Fab Lab
Digital Fabrication Lab Opening

Santa Fe Business Incubator
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The Santa Fe Business Incubator [SFBI] is pleased to announce the grand opening of the Archimedes Fab Lab, a digital fabrication maker space that is now a part of the international Fab Lab Network based at the MIT Center for Bits and Atoms in Cambridge, MA.

On November 14 from 5:00pm to 6:00pm a celebration and ribbon cutting ceremony will take place followed by a reception. The program will begin at 5:30pm. VIP guests and speakers to be announced.

The Archimedes maker space was founded in memory of the late Kim Constantikes whose engineering R&D Company, Archimedes Scientific, was a Santa Fe Business Incubator member. Mr. Constantikes' family benevolently gifted the equipment to create the Archimedes Lab, whose mission is to foster innovation and business development through rapid prototyping and short production runs for the Incubator's member companies and affiliates. Other companies that have generously donated equipment to upgrade the facility to become a Fab Lab, include: Forest Scientific, Autodesk, Solidworks, Roland, MakerBot, and Ultimaker. SFBI members have access to the Archimedes Fab Lab which is equipped with digital fabrication tools such as 3D Printers, CNC machines, laser cutters, vinyl cutters, and milling machines, all tied together with CAD software Autodesk Fusion 360 and Solidworks.

"The SFBI is grateful to the late Kim Constantikes and his family for their open-hearted support of the Incubator community," says SFBI President and CEO Marie Longserre. "We are excited to take the Archimedes Fab Lab to a new chapter as part of the global Fab Lab Network based at MIT which will give startups and growing businesses access to additional resources. As we continue fostering innovation and new enterprises, we'll also be adding much needed workforce and entrepreneurship training in the community, creating a complete circle of business development support for Santa Fe."

A veteran of the United States Navy, Kim Constantikes was a graduate of the Ohio University Honors Tutorial College, earning a Bachelor of Science Degree in Applied Physics. He earned a Master of Science Degree in Electrical and Computer Engineering from Carnegie-Mellon University and continued his graduate studies at Johns Hopkins University in applied mathematics and at the University of Montana in probability and statistics. His career as an electro-optics engineer included work in the design and development of guidance systems, in modeling and simulation of imaging sensors and in fiber optics. Prior to the establishment of his private research and design firm, Archimedes Scientific, which was a member of the Santa Fe Business Incubator, Mr. Constantikes was employed by the Johns Hopkins University Applied Physics Laboratory, the Naval Research Laboratory, the National Radio Astronomy Observatory, BAE Systems and Elbit Systems of America. His research was widely published in the United States, Canada and Europe. Mr. Constantikes held two patents, the most significant being for a fiber optically coupled, multiplexed, and chopped laser rangefinder.

Kim Constantikes founded Archimedes Scientific, LLC to provide a framework for consulting services in aerospace and defense electro-optic projects. Two SFBI clients had taken advantage of engineering services with projects in targeting systems and Archimedes also undertook the development of specialty LED luminaires for use in architectural lighting and light sculpture. Two generations of this hardware and software were developed, with several light sculptures installed and displayed. A SFBI White Board Review was helping Archimedes refine product development and marketing strategy when sadly Mr. Constantikes was taken ill and passed away.

His family has been instrumental in establishing and advancing the lab. Mr. Constantikes' sister Dort Baltes says: *"How exciting it is to recognize the designation of the Archimedes Lab as an MIT-associated Fab Lab. It affirms my brother's regard for the staff and programs that drew him to the Incubator. He so wanted other scientists and engineers to have the resources to pursue their research and development. That the MIT-affiliated Fab Lab at SFBI will serve not only the local and regional community but will also collaborate with the Fab Lab Hub that serves programs across North America is a development that reaches beyond my dreams of the legacy of Archimedes."*

Officially opened in July 2016, the initial Archimedes Lab was the centerpiece of the Incubator's 2016 Manufacturing Day tours in October. Remembers Ms. Longserre, *"Everyone that attended our tours enjoyed meeting the SFBI clients, seeing what they were doing, and visiting the Archimedes Lab."*

SFBI resident companies credit the Archimedes Fab Lab with fostering innovation. Dave Aley, who is working to develop novel and rapid point-of care products for the objective management of concussion and other traumatic brain injuries for SFBI client BioDirections, finds the Archimedes Fab Lab to have been a tremendous resource. Dave says: *"Having access to 3D printers at the SFBI increases the flexibility in the way I design things for my functional purpose rather than to fit into the cost constraints set by a machine shop. We recently saved over \$1,000 rapid prototyping fixtures and parts that hold cameras, serve as wire strain reliefs, and support various pieces of tooling on a robot using the 3D Printers as compared with traditional methods. We also reduce turnaround time from 2 to 3 weeks to about 24 hours. Most impressive is the ability for iterative design. As the needs of our project have changed, I've been able to redesign our products and test the new prints quickly. The speed with which I can do these changes with the Archimedes Fab Lab 3D printers has really facilitated our troubleshooting process."*

Fab Lab Hub is another SFBI resident who has taken advantage of the Archimedes Fab Lab. *"Marie Longserre's visionary leadership and the strong team she has built are what brought us to SFBI. She understands that innovation is what drives economies and has brought in the resources Santa Fe needs to lead in a digital world. The SFBI has given us access to the tools needed to train young people and Veterans for New Collar Jobs"*, says Fab Lab Hub founder Sarah Boisvert. *"Blue Collar jobs have changed to embrace the digital revolution and at SFBI we can provide hands-on training to meet the needs of today's smart manufacturing companies with digital fabrication tools."* The Fab Lab Hub created the **North American Digital Fabrication Alliance** in response to requests from Fab Labs, Makerspaces and startups in the United States, Canada and Mexico for support and collaboration. "Our work is focused on workforce development, digital fabrication certifications, startup creation, entrepreneurship and STEAM education."

The Santa Fe Business Incubator is pleased to host the Fab Lab Hub here in Santa Fe New Mexico as an outstanding resource for digital fabrication programs across the country and North America.

For general information about the Archimedes Fab Lab Grand Opening event contact info@sfbi.net or call 505.424.1140.

For press or media inquiries about the Archimedes Fab Lab Grand Opening, and the Santa Fe Business Incubator contact Marie Longserre, President & CEO, Santa Fe Business Incubator. Maribel@SFBI.net. 505-424-1140. www.sfbi.net

For information on the Fab Lab Hub contact Sarah Boisvert, Founder. sarah@fablabhub.org. 301.908.6726. www.fablabhub.org.

About the Santa Fe Business Incubator (SFB):

The Santa Fe Business Incubator has served as home to more than 150+ start-up companies since its inception in 1997. SFBI continually develops new programs to serve its client enterprises, the community of Santa Fe and the state of New Mexico. Learn more at www.sfbi.net.