

CIRTEMO

For Immediate Release

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optX imaging systems, LLC Partners with CIRTEMO to Develop Novel SWIR imager for DARPA

Columbia, S.C. – December 1 – Multivariate Optical Computing innovator, CIRTEMO, announced today that the company will partner with optX imaging systems LLC of Lorton, VA to develop a novel Short Wave Infrared (SWIR) tactical hyperspectral imaging sensor for Defense Advanced Research Projects Agency (DARPA), an agency of the U.S. Department of Defense.

“We are very excited for optX imaging systems on their recent DARPA funding award” said Jason Williamson, CIRTEMO founder. “This project will showcase several benefits of using Multivariate Optical Element (MOE) technology in next generation hyperspectral imaging systems.”

“By leveraging CIRTEMO’s patented Multivariate Optical Element technology, optX proposes to develop a cost effective, compact infrared tactical hyper spectral imaging sensor with high spatial and spectral resolution.” said Dr. Roy Littleton, optX imaging systems, LLC CEO. “The goal is to develop efficient, compact, configurable, yet cost effective, hyperspectral imaging solutions that will have a much greater impact in future tactical systems and commercial applications.”

“Today’s Hyperspectral system designs are burdened with a complex trade space including size, weight, field of view, spatial resolution, spectral resolution, sensitivity, data rates, and processing overhead.” said Dr. Ryan Priore, CIRTEMO CTO. “Multivariate Optical Elements are ideally suited for applications which have low size, weight and power requirements. In addition, Multivariate Optical Elements provide a tremendous advantage over traditional hyperspectral imagers by reducing computational and human resources required for processing specific, real-time, high value information about a scene.”

CIRTEMO designs and manufactures patented optical filters, called Multivariate Optical Elements, which are encoded to detect/measure complex chemical compounds and attributes. Its patented Multivariate Optical Element platform enables optical systems, to perform high value detection and analysis at the speed of light, to a variety of industries.

CIRTEMO primarily partners with Optical Filter Manufacturers (OFMs) and Optical Component and System Manufacturers (OCSMs). The Multivariate Optical Element platform allows OFMs and OCSMs to differentiate their offerings with a well-protected IP position and enable their customers to tackle new applications that are not possible with traditional optical filters and coatings. CIRTEMO is also engaged with key collaborators who are working to develop Multivariate Optical Element based systems for life science and other high value applications.

CIRTEMO is the second company to be founded to commercialize the patented Multivariate Optical Element platform that was discovered by Dr. Michael Myrick at the University of South Carolina. Prior to founding CIRTEMO, Jason Williamson founded Ometric in 2005. Ometric successfully commercialized the Multivariate Optical Element platform in a wide variety of large industrial sectors, including pharmaceuticals, chemicals, pet nutrition, mining, food and many others. The company was sold to Halliburton in 2011. Although the exact sale price of Ometric is considered confidential, Halliburton paid more than eight figures (\$XXM) for the company, and the transaction generated the largest royalty payment in history ever paid to the University of South Carolina (\$2.7M).

About CIRTEMO

CIRTEMO designs and manufactures patented optical filters, called Multivariate Optical Elements, which are encoded to detect/measure complex chemical compounds and attributes. CIRTEMO's patented Multivariate Optical Element platform enables optical systems to perform high value detection and analysis at the speed of light, to a variety of industries, including life sciences, pharmaceuticals, chemicals, medical devices, agriculture, food and beverage, Semiconductors, pet nutrition, environmental, plastics, and multiple cleantech applications. For more information, visit www.cirtemo.com or call 803-467-4189.

The research reported in this document/presentation was performed in connection with contract/purchase order number W911NF-15-P-0054 with the U.S. Army Contracting Command - Aberdeen Proving Grounds (ACC-APG) and the Defense Advanced Research Projects Agency (DARPA). The views and conclusions contained in this document/presentation are those of the authors and should not be interpreted as presenting the official policies or position, either expressed or implied, of ACC-APG, DARPA, or the U.S. Government unless so designated by other authorized documents. Citation of manufacturer's or trade names does not constitute an official endorsement or approval of the use thereof. The U.S. Government is authorized to reproduce and distribute reprints for Government purposes notwithstanding any copyright notation hereon.

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