

# CIRTEMO

For Immediate Release

Contact: Jason Williamson

## CIRTEMO and SCD kick off \$1.5M program to develop next generation hyperspectral imagers

Columbia, S.C. – November 20 – Multivariate Optical Computing innovator, CIRTEMO, announced today that the company will partner with Semi Conductor Devices (SCD) of Hafia, Isreal to develop next generation hyperspectral imagers based on the Multivariate Optical Element platform.

“We are excited to partner with SCD, as they are recognized as a global leader of designing and manufacturing infrared focal plane arrays (FPA), a key component of hyperspectral imagers” said Jason Williamson, CIRTEMO founder. “By working together, we are able to leverage SCD’s experience with developing IR detectors with our ability to develop application specific Multivariate Optical Elements. Through this partnership we will bring two new real-time hyperspectral imaging product lines to market. From defense to medical to agricultural applications, the new imagers will enable customers to achieve unprecedented levels of high value chemical information about a scene for real-time decision making.”

CIRTEMO designs and manufactures patented optical filters, called Multivariate Optical Elements (MOE), 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. Multivariate Optical Elements are ideally suited for point detection sensors and hyper-spectral imaging systems.

“Over the past year we have simulated and built demonstrations which combine SCD’s FPAs with MOEs for chemical identification and camouflage detection applications.” said Dr. Ryan Priore, CIRTEMO CTO. “We have demonstrated that a MOE based system can provide real-time, high value chemical information and achieve the same or better results as expensive traditional hyperspectral imagers without the heavy post processing and delay issues normally associated with hyperspectral imaging. In fact, in most cases we can reduce the amount of processed image data by two orders of magnitude, which our customers and partners are getting pretty excited about.”

CIRTEMO primarily partners with Optical Filter Manufactures (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 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](http://www.cirtemo.com) or call 803-467-4189.

#### **About SCD:**

SCD was established in 1986 by the current Israeli Partnership of Elbit Systems and Rafael. The main plant is located in the Leshem Industrial Park, Galilee Mountains, Israel. SCD employs well over 450 personnel and supplies over 7,500 detectors per year to the worldwide market. SCD's main line of products encompasses a diverse portfolio of advanced infrared detectors (InSb, MCT and VOx). Additionally, SCD is a world class supplier of 2D arrays and High Power Laser diodes (pulsed, QCW, CW). SCD has 410 employees and had sales of approximately \$107M in 2014. According to the Maxtech International Market study, SCD's current market position included 45% share of the global InSb market and they are recognized as the top 3 global leader for all types of infrared detectors. SCD has 3,100 square meters of clean rooms and significant experience with developing InSb, InGaAs, T2SL, XBn and VOx detectors. The company has an integrated R&D and Production facility with LPE and MBE Crystal growth capabilities and is AS9100C, OSHAS 18001, ISO 14001 certified.

###