

## CIRTEMO

For Immediate Release  
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# CIRTEMO and Dexter Research Center, Inc. to showcase novel Multivariate Optical Element gas sensors at Sensors Expo 2016

Columbia, S.C. – May 25, 2016 - Multivariate Optical Element innovator, CIRTEMO, announced today that Dexter Research will showcase a new class of infrared chemical sensors at Sensors Expo 2016 in San Jose, CA June 22-23, 2016. Sensors Expo and Conference, hosted at the McEnery Convention Center, is North America's premier exhibition for researchers, engineers, product developers, and purchasers who are focused on sensors and sensor-integrated systems

"We are excited to work with Dexter Research. For decades, they have produced the highest quality Infrared detectors available in the marketplace" said Jason Williamson, CIRTEMO founder. "Now by combining Dexter's Infrared detectors with Multivariate Optical Elements (MOE), we are enabling customers to develop low cost, high value chemical sensors which rival the performance of laboratory instruments. MOE sensors can be leveraged in all sorts of industries and applications, from automotive to medical and life science to industrial and defense."

CIRTEMO designs and manufactures patented optical filters, called Multivariate Optical Elements, which are encoded to detect/measure complex chemical compounds and attributes. It'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. Multivariate Optical Elements are ideally suited for point detection sensors and hyperspectral imaging systems.

"Multivariate Optical Elements provide our customers with the ability to design detector and sensors packages for specific chemical signatures or attributes of interest." explained Robert Toth, Jr., president of Dexter Research. "Once combined with our Infrared detectors, Multivariate Optical Elements create powerful, application specific chemical sensors. CIRTEMO's Multivariate Optical Element technology gives our customers an additional tool set to help solve their toughest applications when traditional optical filters just will not work."

During the Sensors Expo 2016 conference, members of the CIRTEMO team will be at the Dexter Research booth #629 to provide a technology overview of how companies and end users can leverage the patented Multivariate Optical Element with Dexter's Infrared detectors for advanced chemical sensing applications.

“Multivariate Optical Elements can be designed to detect and/or measure any gas that has an optical spectral signature.” explained Dr. Ryan Priore, Chief Technology Officer of CIRTEMO. “More importantly, Multivariate Optical Elements can detect or measure a specific gas or classes of gases in the presence of other spectrally overlapping gases. This is not possible with traditional band pass filter sensors.”

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 invented 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 Dexter Research Center, Inc.**

Since 1977, Dexter Research Center, Inc. has been the preferred provider of infrared thermopile detectors for science and industry. Whether it’s a standard or a custom designed detector, an integrated module, or the opportunity to use 30 plus years of infrared detection knowledge and engineering services to design your product, Dexter Research Center, Inc. is positioned to be your partner. For more information, visit [www.dexterresearch.com](http://www.dexterresearch.com) or call 734-426-3921.

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