

## Geometrics to Demonstrate New Magnetometer Technology

*Geometrics, Inc., a world leader in the manufacture of geophysical instruments, will be demonstrating their new Micro-Fabricated Atomic Magnetometers, also known as MFAM™, at upcoming SF Bay Area events in December. This new technology is expected to revolutionize the industry by opening new markets for magnetometers.*

SAN JOSE, CA ([PRWEB](#)) November 18, 2015 -- Geometrics, Inc., a world leader in the manufacture of geophysical data acquisition equipment, will be demonstrating their new [MFAM magnetometer](#) devices at upcoming SF Bay Area events next month.

Magnetometers have long been used in geophysics because magnetic fields are an excellent means of making non-contact, remote measurements of a variety of phenomena. However, their use outside of geophysics has been limited due to the size and large power consumption of the sensors.

Geometrics has recently developed a revolutionary miniaturized laser-pumped scalar magnetometer called MFAM™ that possesses significant size, power and performance advantages over existing solutions. This technology opens up new potential markets and fields of application. Geometrics is commercializing this technology in partnership with Texas Instruments for volume manufacturing.

The MFAM™ sensor operates in the Earth's field and has a sensitivity of 2 pT/√Hz with a bandwidth of 400Hz. With this unique technology, a number of interesting measurements are now feasible. For instance, engineers at Geometrics have observed the effects of eddy currents in conductors induced by power line fields and have measured magnetocardiography signals in an unshielded commercial environment with the MFAM™ sensors.

These new sensors have the potential for a great impact on the fields of remote sensing by utilizing many sensors at once to interpret the readings in real-time. Traditionally, a survey must be performed over a relatively large area in order to make sufficient measurements to later obtain an answer. The new technology opens up several new applications that require an immediate answer or small size. Dr. Mark Prouty, President of Geometrics, says, "We have worked hard to bring these revolutionary sensors to market. We are very excited about the impact these sensors can make on a number of fields, and on our business as a whole."

Geometrics will be showing these new devices at the [American Geophysical Union Fall Meeting](#) in San Francisco, CA December 14 to 17, 2015. Also on December 15th, these new sensors will be the subject of a talk entitled "MEMS Revolution in Atomic Sensing," by Dr. John Kitching of NIST and Dr. Rahul Mhaskar of Geometrics to be held at the [IEEE SF Bay Area MEMS and Sensors Chapter meeting](#).

Geometrics is a division of OYO Corporation and headquartered in San Jose, CA. The company is a world-leading designer and manufacturer of land, marine and airborne geophysical hardware, sensors and software, covering seismic, magnetic, and electromagnetic technologies. Founded in 1969, Geometrics began operations developing innovative magnetometers, and now has representatives worldwide in over 50 countries. With over 46 years of field experience and extensive knowledge, Geometrics' staff of engineers and technicians has worked with universities, research institutions, government agencies and exploration companies to provide solutions to all kinds of geophysical and geotechnical exploration needs. For more information visit [www.geometrics.com](http://www.geometrics.com) or <http://mfam.geometrics.com>.



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