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**Renishaw presents in-SEM Raman spectroscopy and mapping at M&M 2017**

Global engineering and scientific technologies company, Renishaw, is attending the Microscopy and Microanalysis 2017 meeting, at the America’s Center in St Louis, Missouri, USA. The meeting, taking place between August 6th -10th, is the largest scientific meeting in the world devoted to advances in microscopy and microanalysis. The company will be launching the addition of Raman mapping to its successful in-SEM Raman system. Renishaw can be found on booth 317.

This year marks Renishaw’s sixth consecutiveappearance at the meeting, where it will be exhibiting its SEM-SCA interface, linking Renishaw’s inVia microscope to SEM, now with the addition of in-SEM mapping. The system combines optical spectroscopy *in situ* with scanning electron microscopy to enhance the understanding of materials. With Renishaw’s SEM-SCAs in-SEM XY stage it is possible to determine the spatial variations in stress/strain and characterise defects, mapping the molecular and crystalline properties of complex materials.

The SEM-SCA interface simply attaches to an existing vacuum port of the SEM, removing the need for a large or custom chamber. This incredible flexibility ensures the SCA interface is compatible with SEMs from the world’s leading manufacturers. Renishaw’s stand will feature its SEM-SCA with a JEOL JSM-IT500LA scanning electron microscope.

“By combining Raman spectroscopy with SEM, users can obtain co-located morphological, chemical, elemental, physical and electronic analysis of samples,” explains Tim Smith, Head of Applications. “A key benefit of Renishaw’s SEM-SCA is its ability to acquire Raman and SEM data from the same point on the sample without having to move it.”

The innovative setup of Renishaw’s in-SEM Raman solution retains full independent use of Renishaw’s inVia microscope, without compromising its cutting-edge Raman imaging technologies. Visitors to the stand will be able to see Renishaw’s new inVia Qontor confocal Raman microscope, with its incorporated real-time focus-tracking technology for Raman imaging. LiveTrack™ removes the need for manual focusing, pre-scanning or sample preparation (to give a flat surface). Uniquely, LiveTrack provides continuous feedback to the sample stage, which adjusts to follow the height of the sample. Users can track the surface of a sample, live, while acquiring surface or subsurface Raman data.

The company is running two Vendor Tutorials on the booth between 5.45pm - 6.45pm on Monday and Tuesday evening. These sessions will focus on Raman spectroscopy and mapping in-SEM (Monday) and developments in fast confocal Raman imaging (Tuesday). Advanced registration is required at the MSA MegaBooth (304) inside the Exhibit Hall, from Monday August 7th.

For more information on Renishaw’s confocal microscopic imaging coupled with SEM visit [www.renishaw.com/SEM](http://www.renishaw.com/SEM)

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**About Renishaw**

Renishaw is one of the world's leading engineering and scientific technology companies, with expertise in precision measurement and healthcare. The company supplies products and services used in applications as diverse as jet engine and wind turbine manufacture, through to dentistry and brain surgery. It is also a world leader in the field of additive manufacturing (also referred to as 3D printing), where it is the only UK business that designs and makes industrial machines which ‘print' parts from metal powder.

The Renishaw Group currently has more than 70 offices in 35 countries, with over 4,000 employees, of which 2,700 people are employed within the UK. The majority of the company's R&D and manufacturing is carried out in the UK and for the year ended June 2016 Renishaw achieved sales of £436.6 million of which 95% was due to exports. The company's largest markets are the China, USA, Germany and Japan.

The Company's success has been recognised with numerous international awards, including eighteen Queen's Awards recognising achievements in technology, export and innovation. Renishaw received a Queen’s Award for Enterprise 2014, in the Innovations category, for the continuous development of the inVia confocal Raman microscope. For more information visit [www.renishaw.com](http://www.renishaw.com)

### **For further information**

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