

Press Release

Date: December 2012
Enclosure:
Reference: PR-0115-AMA-011211-LEIC

New World Leading Center of Excellence in Vibrometry to be Established at University of Leicester

The University of Leicester has been allocated £1.07 million towards a £5.6 million hi-tech project supporting and impacting advanced engineering and manufacturing automotive, aerospace and space industry sectors. The University, with its industrial partner – Polytec UK - will establish an Advanced Structural Dynamics Evaluation Centre (ASDEC), the UK's first commercial 3-D laser (non-contact) vibration scanning measurement and modal analysis centre, offering the first modeling and certification services in Europe.

The facility will use a robot with laser technology to analyze and assess the design, parts and components of products from the automotive, aerospace and space industries. This will save time and costs in the production processes by analyzing in advance whether design and vibrating parts of a machine are optimized. The facility is a highly specialized resource to support many more developments of new products and processes. It will provide reliable, quick turnaround, cost effective, synthesized system-level models to accurately predict the most optimum design solutions for whole engineering components ranging from nano-actuators, aircraft fuselage sections, and to structures such as the vibration comfort of a complete vehicle, the fatigue resistance of an aircraft landing gear, or the structural integrity of an innovative aircraft or satellite design.

The academic lead for the project at the University of Leicester is Professor Sarah Hainsworth, Professor in Materials Engineering. She said: "The creation of a world leading centre of excellence in vibrometry will help the region to build and grow the

Publication free of charge

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knowledge economy while developing high level skills through graduate internships, knowledge exchange and technology transfer activities.”

Adrian Harrison, MD from Polytec UK said: “This project represents a unique opportunity for the University of Leicester, the Region and the whole of the UK Engineering and Automotive Industries to gain access to world leading technology in the field of Vibration Measurement and Analysis. It is a project which Polytec Ltd and their Polytec GmbH are very pleased to be supporting and involved with.”

More Info: <http://www2.le.ac.uk/offices/press/press-releases/2011/november/world-leading-centre-of-excellence-in-vibrometry-to-be-established-at-university-of-leicester>

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Whole-car scanning vibration measurement applied by a robot. Credit: Polytec Inc.

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