

## 英国诺丁汉大学Dragos Axinte教授学术报告预告

时间:2016.03.24 下午2:00

地点:新主楼B506

报告题目:机器人在航空与核工业环境中的应用以及诺丁汉大学劳斯莱斯大学技术中心研究情况概述

报告人:Prof. Dragos Axinte



**Dragos Axinte** is Professor of Manufacturing Engineering in the Department of Mechanical, Materials and Manufacturing Engineering. He held two personal NATO Research Fellowships in Italy and Denmark and then moved to UK to carry out research with University of Birmingham and later with University of Nottingham. He was appointed Lecturer in Manufacturing Engineering (2005) and successively promoted to Associate Professor (2007), Reader (2010) and Professor (2011). Since 2009 Professor Axinte is Director of The Rolls-Royce UTC in Manufacturing and On-Wing Technology at University of Nottingham and Guest Professor at Royal Institute of Technology, Sweden (2006 – 2013), Northwestern Polytechnical University, China (from 2015), Shanghai Jiao Tong University, China (from 2015) and Harbin Institute of Technology, China (from 2016). Professor Axinte is Fellow of Institution of Mechanical Engineer (IMechE), Fellow of International Academy of Production Engineering (FCIRP) and Associate

Editor of the International Journal of Machine Tools and Manufacture. Professor Axinte research interest is in the main following areas: Innovative Manufacturing Processes, Advanced Machining and Finishing Technologies, Abrasive Waterjet Machining, Monitoring and Optimisation of Manufacturing Processes, Design and Construction of Miniature Machine Tools, Design of Innovative Tools/Robotics for Aerospace Manufacture, Workpiece Surface Integrity Analysis and Applied Tribology.

### Research Summary:

1. Investigation of monitoring techniques for the detection of tool and workpiece malfunctions in milling of heat resistant alloys
2. Optimising drilling technology for an advanced nickel disk alloy
3. Design and Demonstration of a 4-axis miniature machine tool to enable freeform micro-machining
4. Manufacturability analysis system on freeform micro-machining
5. Processing of an Advanced Nickel Alloy for Critical Engine Applications
6. Feature based capability evaluation in drilling aerospace alloys
7. Freeform generation on ultra-hard materials using pulsed laser ablation
8. Design of innovative tooling and fixturing for the manufacture of aerospace parts
9. Self-Learning Control Systems for Freeform Milling with High Energy Fluid Jets (Coordinator FP7: ConforM-Jet - 2009-13)
10. Miniaturised Robotic Systems for holistic in-situ Repair and maintenance works in restrained and hazardous environments (Coordinator FP7: MiRoR - 2012-16)