



EI / IMechE JOINT EVENING LECTURE



Laser Processing - Case Studies for Irish Industry Dr. Leo Sexton Managing Director, LaserAge, Cork

The routine or continuous measurement and interpretation of data to indicate the condition of an item

LaserAge is a leading R&D provider of precision laser-based manufacturing solutions. It provides specification and selection of industrial laser systems to companies in the manufacturing sector. Applications include cutting, welding and drilling of metals, plastics, composites and organic materials. Surface Modification application comprise laser ablation (paint stripping, cleaning), texturing (of moulds), polishing and marking. Laser Hardening and Cladding applications to enhance Wear and Corrosion Protection for Aerospace and Injection Mould Tooling Industries, in particular the Wear Parts industry. Micro Manufacturing projects include micro moulding (ablation of tool steel inserts), Selective Laser Melting, Micro Tooling and Rapid Prototyping.

Leo completed his PhD in Laser Material Processing in 1995 at Liverpool University before embarking on a postdoctoral position at the Institute for Laser Technology Aachen, Germany. Subsequently he set up a laser research facility at University College Dublin before establishing his own consultancy firm in 2000, promoting the use of lasers within the manufacturing industry, mainly aerospace. He has worked on several EU Projects to develop alternative deposition techniques for adding novel protective coatings to worn components for enhanced corrosion and wear resistance and has given extensive seminars on the topic internationally. He has successfully developed and implemented the laser cladding processes for a multinational aerospace company specialising in repairing turbine components

This lecture is hosted jointly by Engineers Ireland (Cork Region) and the Institution of Mechanical Engineers (Irish Branch)

Date: Tuesday 13th February, 2007
Venue: Rochestown Park Hotel, Cork
Time: 8.00 p.m.

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