

About the Editors



Dr. Mark J. Jackson

C. Eng., Engineering Council of London, U.K., 1998

M. A. Status, Natural Sciences, University
of Cambridge, U.K., 1998

Ph.D., Mechanical Engineering, Liverpool, U.K., 1995

M.Eng., Mechanical & Manufacturing Engineering,
Liverpool, U.K., 1991

O.N.D., Mechanical Engineering, Halton College,
U.K., 1986

O.N.C. Part I, Mechanical Engineering, Halton
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Doctor Jackson began his engineering career in 1983 when he studied for his O.N. C. part I examinations and his first-year apprenticeship-training course in mechanical engineering. After gaining his Ordinary National Diploma in Engineering with distinctions and I.C.I. prize for achievement, he read for a degree in mechanical and manufacturing engineering at Liverpool Polytechnic and spent periods in industry working for I.C.I. Pharmaceuticals, Unilever Industries, and Anglo Blackwells. After graduating with a Master of Engineering (M. Eng.) degree with Distinction under the supervision of Professor Jack Schofield, M.B.E., Doctor Jackson subsequently read for a Doctor of Philosophy (Ph.D.) degree at Liverpool in the field of materials engineering focusing primarily on microstructure-property relationships in vitreous-bonded abrasive materials under the supervision of Professor Benjamin Mills. He was subsequently employed by Unicorn Abrasives' Central Research & Development Laboratory (Saint-Gobain Abrasives' Group) as materials technologist, then technical manager, responsible for product and new business development in Europe, and university liaison projects concerned with abrasive process development. Doctor Jackson then became a research fellow at the Cavendish Laboratory, University of Cambridge, working with Professor John Field, O.B.E., F.R.S., on impact fracture and friction of diamond before becoming a lecturer in

engineering at the University of Liverpool in 1998. At Liverpool, Dr. Jackson established research in the field of micromachining using mechanical tools, laser beams, and abrasive particles. At Liverpool, he attracted a number of research grants concerned with developing innovative manufacturing processes for which he was jointly awarded an Innovative Manufacturing Technology Center from the Engineering and Physical Sciences Research Council in November 2001. In 2002, he became associate professor of mechanical engineering and faculty associate in the Center for Manufacturing Research, and Center for Electric Power at Tennessee Technological University (an associated university of Oak Ridge National Laboratory), and a faculty associate at Oak Ridge National Laboratory. Dr. Jackson was the academic adviser to the Formula SAE Team at Tennessee Technological University. In 2004 he moved to Purdue University as Professor of Mechanical Engineering in the College of Technology.

Doctor Jackson is active in research work concerned with understanding the properties of materials in the field of microscale metal cutting, micro- and nanoabrasive machining, and laser micro machining. He is also involved in developing next generation manufacturing processes. Doctor Jackson has directed, co-directed, and managed research grants funded by the Medical Research Council, Engineering and Physical Sciences Research Council, The Royal Society of London, The Royal Academy of Engineering (London), European Union, Ministry of Defense (London), Atomic Weapons Research Establishment, National Science Foundation, N. A.S.A., U. S. Department of Energy (through Oak Ridge National Laboratory), Y12 National Security Complex at Oak Ridge, Tennessee, and Industrial Companies, which has generated research income in excess of \$15 million. Dr. Jackson has organized many conferences and served as General Chairman of the International Surface Engineering Congress and is Deputy President of the World Academy of Materials and Manufacturing Engineering. He has authored and co-authored over 250 publications in archived journals and refereed conference proceedings, has written a book on “micro and nanomanufacturing”, is guest editor to a number of refereed journals, and has edited a book on “commercializing micro- and nanotechnology products”. He is the co-editor of the “*Journal of Manufacturing Technology Research*”, associate editor of the “*International Journal of Molecular Engineering*”, and is on the editorial boards of the “*International Journal of Machining and Machinability of Materials*”, “*International Journal of Computational Materials Science and Surface Engineering*”, “*International Journal of Nanomanufacturing*”, “*International Journal of Nano and Biomaterials*”, and the “*International Journal of Manufacturing Research*”.



Dr. J. Paulo Davim

Aggregation, Mechanical Engineering, University of Coimbra, Portugal, 2005
Ph.D., Mechanical Engineering, University of Porto, Portugal, 1997
M.Sc., Mechanical Engineering (Materials & Manufacturing Processes), University of Porto, Portugal, 1991
Graduation (5 years), Mechanical Engineering, University of Porto, Portugal, 1986

Doctor J. Paulo Davim received his Ph.D. degree in Mechanical Engineering from the University of Porto in 1997 and the Aggregation from the University of Coimbra in 2005. Between, 1986/96, he was lecturer in University of Porto. Currently, he is an Aggregate Professor at the Department of Mechanical Engineering of the University of Aveiro and the Head of MACTRIB - Machining and Tribology Research Group. He has more 24 years of teaching and research experience in manufacturing, materials and mechanical engineering. His main research interests are the machining and tribology and more recently the application of computational and statistical methods in manufacturing as well as all aspects of sustainable manufacturing. He was coordinator of several research projects and supervisor of 2 Ph.D. thesis and 10 M.Sc. thesis. He is Guest Editor of journals, book Series Editor and Scientific Advisory for many international journals and conferences. Presently, he is an Editorial Board member of 15 international journals and acts as reviewer for than 45 prestigious ISI web Science journals. He has also published more than 20 book chapters and 300 articles in journals and conferences (more 150 articles in ISI Web Science, h-index 15).

He is the Editor of the “*International Journal of Machining and Machinability of Materials*”, “*International Journal of Manufacturing, Materials and Mechanical Engineering*”, “*Journal of Machining and Forming Technologies*”, “*Journal of Modern Manufacturing Technology*” and Co Editor of the “*International Journal of Surface Science and Engineering*”, “*International Journal of Mechatronics and Manufacturing Systems*”, “*International Journal of Materials Engineering Innovation*”, and the “*Journal of Manufacturing Technology Research*”.