Dr Yogiraj Pardhi BE, MTech, PhD

Research Fellow

School of Metallurgy and Materials (/schools/metallurgy-materials/index.aspx)

Contact details

Telephone (+44) (0) 121 414 5177 (tel:+44 0 121 414 5177)

Fax (+44) (0) 121 414 7468

Email y.u.pardhi@bham.ac.uk (mailto:y.u.pardhi@bham.ac.uk)

School of Metallurgy and Materials
University of Birmingham
Edgbaston
Birmingham
B15 2TT
UK

About

Dr. Pardhi completed a Bachelor of Engineering in Mechanical Engineering at Nagpur University, India in 2002. He finished his Master of Technology in Industrial Metallurgy from the Indian Institute of Technology Roorkee, India in 2005.

During his masters course he was awarded the DAAD (German Academic Exchange Service) scholarship for a duration of 1 year to carry out his dissertation at the Technical University of Munich, Germany. He went on to do his PhD in Metallurgy and Materials, at the University of Birmingham, UK in 2010.

He was awarded the prestigious ORSAS-2006 fellowship by Universities UK during his doctoral research.

Qualifications

- PhD in Metallurgy and Materials, University of Birmingham, United Kingdom, 2010
- MTech in Industrial Metallurgy, Indian Institute of Technology Roorkee, India, 2005
- BE in Mechanical Engineering, Nagpur University, India, 2002

Research

RESEARCH THEMES

- High performance materials
- Fatigue and fracture of materials
- Material characterisation

RESEARCH ACTIVITY

- Fatigue crack growth behaviour in Titanium Aluminides at various temperatures and stress ratios.
- Microstructural characterisation and fatigue crack growth, fracture toughness and LCF behaviour in inertia friction welds of α/β titanium alloys.
- High temperature fatigue crack growth in inertia welds of Nickel based superalloys under various environmental and dwell conditions.
- Threshold fatigue crack growth behaviour of Ti-6Al-4V titanium alloy.
- Microstructural characterisation of dual microstructure heat treated Nickel based superalloy.
- Fatigue life estimation with stress concentration and microstructure study of a nickel based superalloy.

Publications

Pardhi Y., Dungey C., Baxter G, Bowen P., Halford T. P., “Fatigue crack propagation behavior of an Inertia Friction welded α/β titanium alloy”, Journal of ASTM International, 2010, Vol 7, No. 6, P 14.

Pardhi, Y.U. Ghosh, P.K. Kosteas, D., “Analysis of Fatigue Design Recommendations for Aluminum Weldments with Imperfections”, Indian Welding Journal, Indian Institute of Welding, 2009, Vol 42; No 3, pp 31-42.