

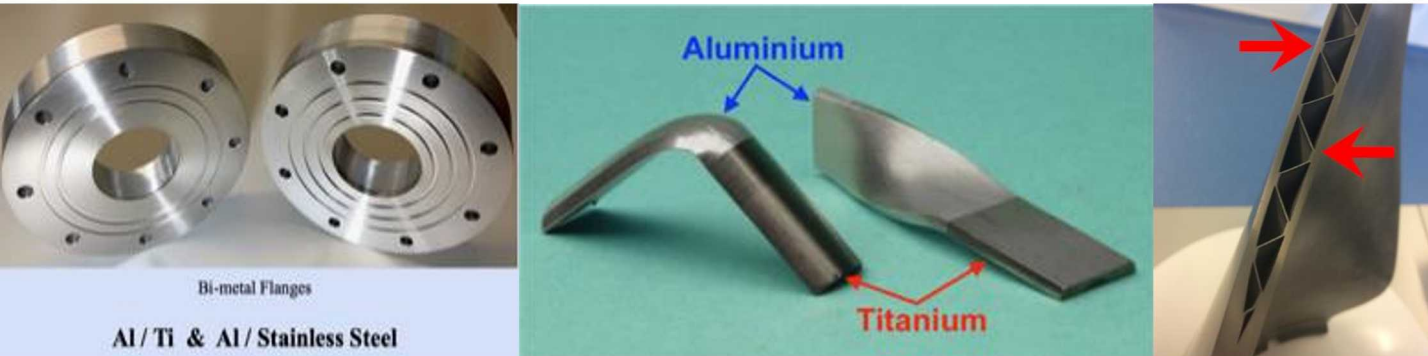
The Eastern Counties Branch Presents

Diffusion Bonding – Fundamentals & Applications

Date: Wednesday 27th September 2023

Time: 18.30-19.30

Location: Online Zoom – joining instruction and link will be available upon your full registration on the Welding Institute Website



Diffusion bonding is normally used to bond the alloys, composites and ceramics which cannot be joined using conventional welding processes such as arc or laser welding. Fundamentals of **solid-state diffusion bonding** of **similar or dissimilar alloys** and latest developments in the field will be outlined. Exemplary applications will include fabrication of key components for **vaccine sterilisers during the Covid-19 pandemic**. This talk should be of interest to academics and particularly the research engineers who are looking for **new value-added manufacturing processes**.

- ✓ **Aerospace and Defence Sector** - High Strength Joints
 - ✓ **Medical devices** - Microjoining
- ✓ **Automotive/optics/sensors** - Bonding ceramics to metals
 - ✓ **Microelectronics** - High precision bonding

Speaker: Dr Amir Shirzadi

Dr Amir A. Shirzadi is a Senior Lecturer in Materials Engineering at The Open University (UK) and the Director of Cambridge Joining Technology Limited (www.cjt-limited.com). Dr Shirzadi received his PhD on Diffusion Bonding from the University of Cambridge in 1998. He has more than 40 publications and been granted several USA, UK and European Patents, all related to his inventions on joining methods. Dr Shirzadi is a Charter Engineer, Fellow of The Welding Institute (TWI) and Fellow of Institute of Materials, Minerals and Mining.

