AILEEN National Event - 11th June 2025
Uxbridge, London, United Kingdom

AGENDA

Brunel University London
Address: Kingston Lane, UB 3PH, Uxbridge, UK
Venue: The Beldam, Eastern Gateway Building

AILEEN UK National Event **centres of vocAtIonaL Excellence in aErospace & defence for advanced maNufacturing**	
12.00-12.30 BST	**Registration and Welcoming Lunch** *(The Beldam, Eastern Gateway Building)* Light snacks and refreshments provided.
12.30-12.45	**Welcome, Introduction to UBRUN and AILEEN Project** • AILEEN and the importance of vocational skills and training (*Eujin Pei*, BUL)
12.45-13.45	**Contextualizing AILEEN: Needs, Challenges in Manufacturing** • Design for Manufacturing and Associated Skills (*Chris Biggadike*, Ultra-PCS) • Training on Tensile Testing and Application of Standard Test Methods for Additively Manufactured Materials (*Tony Fry*, NPL)
Q&A time included	
13.45-14.45	**Towards Alignment with European Defense Policy and Industry Aerospace and Defense Standards** • Standards and Evolution: 35 years of NADCAP (*Jim Klingele*, PRI) • The Importance of Integration of Research Findings into Higher Education for Advanced Manufacturing (*Supriyo Ganguly*, Cranfield University) • Building Trust: Classification and Certification of Additive Manufactured Components in Marine Applications (*Adam Saxty*, Lloyd's Register)
Q&A time included	
14.45-15.00	**Coffee-break**
15.00-16.00	**Moving Forward: Covering the Skills' Gap and the Future of Manufacturing Technologies** • The challenges of bringing a new technology to market, adoption and support - Wayland's journey (*Ian Laidler*, Wayland) • Role of AMUK and progressing AM skills in the UK (*Joshua Dugdale*, AMUK) • Addressing the Welding and Additive Manufacturing skills gap in the UK (*Bethan Smith*, MTC)
16.00-16.45	**Roundtable: Feedback Loop Next steps & Closure** Moderated by AILEEN Partners: MTC, BUL and PRI

*Vehicle entry onto campus is via Kingston Lane. If you're using a sat nav, use postcode UB8 3PH, or use the what3words app with the words ///legend.duty.impact. To register a vehicle, please go to the Eastern Gateway Building reception and show your event registration confirmation.

Event moderated by Prof. Eujin Pei, Angeliki Martinou, Janith Gooneratne. For any inquiries, email: eujin.pei@brunel.ac.uk

This project has been funded with support from the European Commission. This publication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

Co-funded by the European Union

Speaker Bios

Eujin Pei is a Full Professor specializing in Additive Manufacturing. He serves as Chair of the UK national committee for Additive Manufacturing (BSI AMT/8) and as Convenor of the ISO Technical Committee for Additive Manufacturing Data and Design (ISO TC261/WG4). His leadership has contributed to the publication of eight international standards, with six more currently in development. He also collaborates closely with colleagues at Brunel University to support the success of the AILEEN project.

Chris Biggadike is a Senior Engineering Manager for Ultra Electronics Precision Control Systems, leading a number of engineering functions. A chartered engineer with a Master's degree in Engineering Management, his work is in aerospace, military land and soldier systems. Originally from London, he now lives in the Cotswolds with his family.

Tony Fry is a Principal Research Scientist at the National Physical Laboratory (NPL). Tony works closely with Government bodies and Industry to help deliver the UK's National Measurement System. Tony is focused on the materials metrology and development of test methods for the evaluation of life-time performance and durability of advanced engineered materials such as metal alloys, ceramics and their composites and coatings.

Jim Klingele is currently the Business Development & Program Manager at Performance Review Institute (PRI), a world leader in supply chain oversight programs and professional development. Prior to this role, Jim served as Director of Sales at the Society of Petroleum Engineers International and VP Sales at X-L Enterprises. With a background in sales and management, Jim has held various positions in reputable organizations like PennWell and Realtor.com.

Supriyo Ganguly is a metallurgist and his principal research focus is in understanding the impact of application of thermal energy on metals during processing and its impact on performance and integrity. He is a Professor in Welding and Additive Materials Science and currently the Programme Director of the Welding and Additive Manufacturing Centre.

Adam Saxty serves as the Lead Additive Manufacturing Technologist at Lloyd's Register, where he spearheads the development of certification services for additive manufacturing and provides technical support. Adam has authored comprehensive guidance notes that outline detailed guidelines for the certification and quality assurance of parts produced through additive manufacturing processes.

Ian Laidler is a physicist and engineer with 30 years of experience directing complex technical developments of high value capital equipment for the semiconductor and medical industries. Ian has worked on the introduction of a superconducting electron synchrotron for IBM's X-ray Lithography program; superconducting proton cyclotrons for PET scanners; X-ray beamlines for the world's third-generation synchrotrons; and electron beam lithography systems for the semiconductor and nanotechnology industries. Throughout these programs, Ian has been responsible for coordinating high performing teams and delivering to incredibly demanding semiconductor fab environments, including customers such as IBM, Hitachi, SEAGATE, Hoya, KERI, NIST.

Joshua Dugdale joined the MTA in October 2016 and is a chartered mechanical engineer with experience in the automotive, clean energy, defence, and security sectors. He oversees the MTA's technical regulation work and leads its outreach and skills programme. He also heads Additive Manufacturing UK (AMUK) the industry body for the additive manufacturing and 3D printing sector. Josh also advises members on technical legislation and standards, staying at the forefront of manufacturing technology trends.

Bethan Smith leads the Laser Processing team at the MTC, where she is responsible for team performance, strategy and technology investments. Over the past 10 years at the MTC she has worked on and led a range of commercial projects involving both laser and additive technology as well as leading larger scale Innovate-UK projects with large consortia. In particular, she has developed new training courses for laser processing, and been involved in European projects in the same area. She leads the laser processing cross-catapult group across the HVMC and is the MTC representative at the HVMC Joining Special Purpose Group.