



Day 1 – 21 November

Welcome - **Giles Ashmead** (ALFED President)

Presentations – 20 minutes with group Q&A at the end of the session if time permits

Session 1 - ALLOY DEVELOPMENT

- The growth in global demand for automotive aluminium – **Paul Williams** (CRU)
- Alloys of the future – **Prof Geoff Scamans** (Innoval and BCAST)
- Forging alloy development **Dr Martin Jarrett** (Constellium)

Coffee break

Session 2 – RECYCLING

- Reshoring and other opportunities for the UK automotive industry - **Prof. David Bailey** (Aston Business School)
- Electric stirring – the key to efficient recycling? **Alan Peel** (ALTEK)
- **TBC** (Novelis)
- **Minimising furnace emissions and maximising production** – **Dr. Martin Lawrence & Petr Tlamicha** (Air Products)
- Aluminium recycling for automotive casting – **TBA** (Milver Metals)

Lunch break

Session 3 – CASTING

- Alumina reinforcement of castings – **Steve Cooke** (CMT)
- Migrating aerospace casting techniques to automotive – **Mike Bond** (Aeromet)
- Squeeze casting – the best of all worlds? **Peter Radcliffe** (Castalum)
- High pressure casting - **John Coughtrie** (Magna Cosma)

Coffee break

Session 4 – FORGING

- The principles of advanced aluminium forging - **John McBain** (Advanced Forming Research Centre)
- The ALFED Forging Project - **Paul Morgan** (CIE Stokes Forging)
- Adding value through heat treatment – **Ian Perks** (Alloy Heat Treatment)
- Our learning curve with forging aluminium - **Peter Parkes** (SDF Automotive)

Conference Dinner (optional) at Birmingham Council House



Day 2 – 22 November

Session 5 – SHEET FORMING

- How aluminium fits into 'end-of-life' recycling – **Patrik Ragnarsson** (European Aluminium)
- Superforming 7XXX series aluminium – **Dave Edwards** (Superform)
- High precision forming with the HQF process – **Dr. Federico Melotti** (Impression Technologies)
- Physical testing of aluminium – **Vicky Wilkes** (Phoenix Calibration)

Coffee break

Session 6 – DURABILITY

- Mitigating the effects of galvanic corrosion – **Peter Watts** (United Anodisers)
- Pre-treatment of aluminium for bonding and welding – **Gary Mothersole** (Chemetall)
- Lifetime testing – **Alan Cooper** (Westmoreland)

Lunch break

Session 7 – EXTRUSION

- Automotive aluminium in the USA – **Jim Dickson** (Rio Tinto)
- Extruding 7xxx series aluminium - **Andrew Tarrant** Materion/Capalex
- New applications for automotive extrusions – **Jonas Bjuhr** (Sapa)
- Computer modelling for 7xxx series alloys – **Nikolay Biba** (Micas Simulations)

Coffee break

Session 8 – JOINING: BONDING AND WELDING

- **The challenges of bonding aluminium - especially for mixed material structures**
- – **Ewen Kellar** (TWI)
- Advanced thermal welding - **Doug Boomer** (Innoval Technology)
- Laser welding aluminium – **Mark Thompson** (IPG photonics)
- Pulse welding applications – **Jean-Charles Boutin** (BMAX)
- **Remote laser welding** **Corrado Bassi** (Novelis)

Conference close

**PLEASE NOTE – CONFERENCE CONTENT AND TIMINGS
ARE LIABLE TO CHANGE AS SPEAKERS ARE CONFIRMED**