

ALUMINIUM CASTING METALLURGY

National Metalforming Centre,
47, Birmingham Road, West Bromwich B70 6PY

Wednesday 27 June 2018

8.30 - 9.30am	Registration, Tea/Coffee.
9.30 – 9.40am	Welcome and Introduction – Jan Lukaszewski, ALFED
9.40 – 9.45am	Round Table Introduction of Delegates.
9.45am	First Session Introducing Metals Solidification of Metals and Alloys. Alloying of Metals. Tensile Testing of Measurement of Force. Strength and Ductility of Metals. Hardness Testing. Evolution of Aluminium and Casting.
10.50 – 11.05am	COFFEE BREAK
11.05am	Second Session Aluminium Strategic Metal for Society. Primary Aluminium Production. Classification of Aluminium Casting Alloys. Cast Aluminium Specification. Aluminium Alloying Elements. Liquid Metal Engineering. Plate and Billet Casting. Casting Macrostructures.
1.00 – 1.45pm	LUNCH
1.45pm	Third Session Casting Defects. Inclusions. Degassing of Fluxes. Inoculant and Grain Refinement. Infinitely Recyclable Aluminium. Casting Process Stages. Casting Technologies.
3.00 – 3.15pm	COFFEE BREAK
	Fourth Session Chemical Analysis of Aluminium. Heat Treatment of Aluminium. Non – Destructive Testing.
4.00 – 4.15pm	Questions and Discussions.