

ROYCE TRAINING: INTRODUCTION TO QUENCHING DILATOMETRY FOR ALLOYS

HENRY · · · ·
ROYCE · · · ·
INSTITUTE

06 May 2026 - 09:30 - 16:00

TIME	TITLE
09:30	Arrival for 10:00am start (Refreshments provided)
10:00-10:15	Welcome and Introduction
10:15-12:00	Case studies from UK academic institutions: The application of dilatometer in material modelling – Jiayi Zhang (UoM) In-situ SXR and dilatometry to measure retained austenite decomposition – Grace Fidler (UoM) Solid-State Phase Transformations and Microstructural Characterization in Ferritic Steel Weld Metal – Julio Spadotto (UoM) Title TBC – Ashley Scarlett (Rolls Royce)
12:00–13:00	Lunch & networking (Lunch provided)
13:00–14:30	Case studies from UK academic institutions <i>Predicting Martensite Start Temperature in Steels: A Data-Driven Approach with Dilatometry Validation</i> – Peng Xing Wang (University of Leicester) <i>The effects of Sn on austenite decomposition in low carbon low alloy steels</i> – Yulin Ju (University of Warwick) <i>Flow Behaviour and Microstructure of AlMoNbTaTiZr Refractory High-Entropy Alloy Processed via a Solid-State Route</i> – Deepan Xavier (University of Coventry) <i>Compression Behaviour of a Novel High-Entropy Alloy</i> – Sim Bhaker (UoM)
14:30–14:45	Afternoon refreshments & comfort break (Refreshments provided)
14:45–15:30	Case studies from UK academic institutions Powder metallurgy martensitic steels – Alice Robinson (Imperial) Modelling the Martensite Transition in EUROFER97 for the Manufacture of Plasma Facing Components – Clint Grohmann (University of Oxford)
15:30 - 16:00	User group Q&A – Ross Nolan

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