

# EMPRESS Workshop

A one-day conference on enhanced temperature measurement techniques for improved process control held on 22 March 2017

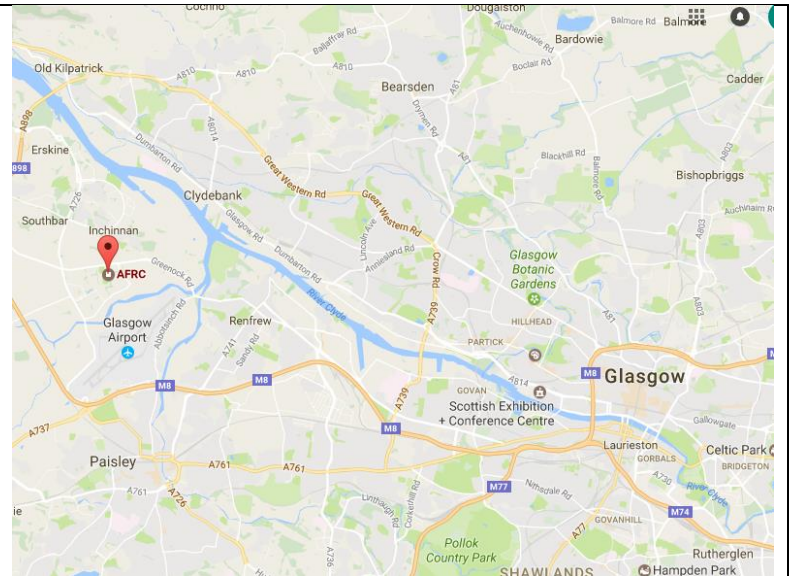
Advanced Forming Research Centre, 85 Inchinnan Drive, Inchinnan, PA4 9LJ, United Kingdom  
[www.npl.co.uk/events](http://www.npl.co.uk/events)

Wednesday 22 March 2017			
9.00	Arrival and registration		Introduction & keynote
9.30	Welcome to the AFRC	David Jones, AFRC	
9.35	Welcome and introduction	Graham Machin, NPL	
9.40	Overview of the EMPRESS project	Jonathan Pearce, NPL	
10.00	Keynote: Temperature measurement for better processes to create better products and services	Pete Loftus, Rolls-Royce	
10.40	Overview of WP1: Low-drift contact temperature sensors to above 2000 °C	Frank Edler, PTB	
10.50	Overview of WP2: Zero-drift contact temperature sensors to 1350 °C	Claire Elliott, NPL	
11.00	Coffee break		
11.30	Introduction to a new low drift base metal thermocouple mineral insulated cable technology	Michele Scervini, Cambridge University & Trevor Ford, CCPI Europe Ltd	Contact thermometry
11.50	Optical based contact thermometer using SiC, quartz tubes and sapphire fibre	Sigurd Simonsen, Elkem	
12.10	High-temperature measurement in industrial practice	Jurgen Blüm, MUT	
12.30	Lunch		
13.30	Overview of WP3: Traceable surface temperature measurement with contact sensors	Lucia Rosso, INRiM	Phosphor thermometry
13.40	Thermocouples in industrial environments	Mark Thomas, BAE Systems	
14.00	Surface thermometry in low TRL testing of combustor cooling concepts	Clare Bonham, Loughborough University	
14.20	Industrial uses of thermographic phosphors	Andy Heyes, Strathclyde University	
14.40	Tea break and networking		
15.10	Overview of WP4: Traceable combustion temperature measurement	Gavin Sutton, NPL	Combustion thermometry
15.20	Laser techniques for flame and combustion thermometry	Paul Ewart, Oxford University	
15.40	Temperature measurements in turbulent flames using Raman spectroscopy	Wolfgang Meier, DLR	
16.00	A practical Johnson noise thermometer	David Cruickshank, Metrosol	
16.45	Tour of AFRC		



## Venue

Advanced Forming Research Centre  
85 Inchinnan Drive  
Inchinnan  
PA4 9LJ  
United Kingdom



## Suggested hotels

Holiday Inn Glasgow Airport: [www.higlasgowairport.com](http://www.higlasgowairport.com)

Bowfield Hotel: [www.bowfieldhotel.co.uk](http://www.bowfieldhotel.co.uk)

Glynhill Hotel: [www.glynhill.com](http://www.glynhill.com)

Ingliston Hotel: <http://ingliston.com>

Ashtree House Hotel: [www.ashtreehousehotel.com](http://www.ashtreehousehotel.com)