

## 2<sup>nd</sup> EMPRESS Workshop

A one-day conference on enhanced temperature measurement techniques for improved process control held on 18 April 2018

National Physical Laboratory, Hampton Road, Teddington, TW11 0LW, United Kingdom  
[www.npl.co.uk/events](http://www.npl.co.uk/events)

Wednesday 18 April 2017			
9.00	Arrival and registration		Introduction & keynote
9.30	Welcome and introduction	Graham Machin, NPL	
9.40	Overview of the EMPRESS project	Jonathan Pearce, NPL	
10.00	Thermal measurement, and nuclear decommissioning and waste management (TBC)	Nick Smith, National Nuclear Laboratory	
10.30	The re-definition of the kelvin	Michael de Podesta, NPL	
11.00	Coffee break		
11.30	Overview of WP1: Low-drift contact temperature sensors to above 2000 °C	Frank Edler, PTB	Contact thermometry
11.50	Overview of WP2: Zero-drift contact temperature sensors to 1350 °C	Claire Elliott, NPL	
12.10	Graeme Young: Sensing challenges in the oil & gas industry	Graeme Young, RSCC Wire and Cable	
12.35	Temperature Measurement in Composite Production and Repair: Smart Thermocouples and Smart Repair Sensing	Vlad Fedorchak, TE Wire & Cable	
13.00	Lunch		
13.30	Overview of WP3: Traceable surface temperature measurement with contact sensors	Lucia Rosso, INRiM	Phosphor thermometry
13.50	Mitigating strategies for unknown emissivity and background radiation (TBC)	Jon Willmott, University of Sheffield	
14.15	A new Euramet guide on surface temperature measurement	Søren Lindholt Andersen, Danish Technical Institute	
14.40	Temperature measurement diversity	Mark Thomas, BAE Systems Maritime	
15.05	Tea break and networking		
15.35	Overview of WP4: Traceable combustion temperature measurement	Gavin Sutton, NPL	Combustion thermometry
15.55	Traceable combustion thermometry (TBC)	Andy Tyas, University of Sheffield	
16.20	In-situ temperature measurements by optical spectroscopy from lab to industrial scale	Alexander Fateev, Technical University of Denmark	
16.45	Thermocouple use for aircraft powerplant fire testing	Mary Kelly, Resonate Testing	
17.10	Tour of NPL temperature labs		



## Venue

National Physical Laboratory Hampton Road Teddington TW11 0LW United Kingdom	<a href="http://www.npl.co.uk/contact-us/directions-to-npl/">www.npl.co.uk/contact-us/directions-to-npl/</a>
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## Suggested hotels

<b>NB: The Park Hotel</b> has a corporate rate for NPL customers for which ' <b>National Physical Laboratory</b> ' needs to be quoted when booking	
<b>The Park Hotel</b> Park Road Teddington TW11 0AB  T: 020 8614 9700 E: <a href="mailto:res.park@galleonhotels.com">res.park@galleonhotels.com</a>	<ul style="list-style-type: none"> <li>• 10 minute walk from NPL, 2 minute walk from Teddington railway station</li> <li>• Corporate rate: Standard Room (single occupancy): £106 (bed and breakfast / FREE Wi-Fi)</li> <li>• Standard Double Room (double occupancy): £116 (bed and breakfast / FREE Wi-Fi)</li> </ul>
<b>NB: Lensbury</b> has a corporate rate for NPL customers for which ' <b>National Physical Laboratory</b> ' needs to be quoted when booking	
<b>Lensbury</b> Broom Road Teddington TW11 9NU  T: 020 8614 6444 Email: <a href="mailto:accommodation@lensbury.com">accommodation@lensbury.com</a>	<ul style="list-style-type: none"> <li>• Early booking advised</li> <li>• Corporate rate: Standard Room (single occupancy): £125 Standard Double Room (double occupancy): £160</li> <li>• All rates are per room per night, inclusive of VAT, breakfast, use of leisure facilities, free Wi-Fi and shuttle bus* to and from Teddington railway station (NPL Reception is approx. 10 minutes' walk from the station) (* Check with Lensbury Reception for bus timings)</li> </ul>
<b>Travelodge Teddington</b> Park House Station Road Teddington TW11 9AD  T: 0871 984 6231	<ul style="list-style-type: none"> <li>• 10 minute walk from NPL</li> <li>• Close to Teddington railway station</li> <li>• Bar   café</li> <li>• Wi-Fi facilities</li> </ul>

For more options see <http://www.npl.co.uk/contact-us/local-hotels>