



**Tenth International TWI/EWI Aerospace Seminar on Joining of Aerospace Materials  
23-24 September 2020  
Rolls-Royce Plc, Derby, UK**

**Wednesday 23<sup>rd</sup> September – Chair, Richard Freeman, TWI**

07.45	Buses leave Midland Hallmark Hotel in Derby
08.15	Registration and Coffee
09.00	Welcome, TWI and Rolls-Royce Plc
<b>Session 1 – Welding Technology 1</b>	
09.20	Linear Friction Welding applications in aircraft parts manufacturing <i>Nicolas Piolle, ACB</i>
09.50	Use of Friction Stir Welding on Main Landing Gear Bay instead of riveted junction <i>Damien Gesgaches, Stelia Aerospace</i>
10.20	Friction welding developments at TWI <i>Joao Gandra, TWI Ltd</i>
10.50	Coffee
<b>Session 2 – Welding Technology 2</b>	
11.20	Applying Artificial Intelligence to laser welding quality control <i>Nicola Longo, Comau UK</i>
11.50	Innovations to enhance weldability of IN718 castings for aircraft turbine components <i>Pedro Alvarez, Lortek</i>
12.20	Lunch
<b>Session 3 – Additive Manufacturing</b>	
13.20	AM developments at Rolls-Royce <i>Neil Mantle, Rolls-Royce Plc</i>
13.50	Laser AM developments at TWI <i>Carl Hauser, TWI Ltd</i>
14.20	Developing aerospace commodities through hybrid additive and subtractive manufacturing <i>Nikolas Tapoglou, AMRC</i>
14.50	Coffee
<b>Session 4 – Welding Technology 3</b>	
15.20	InToolbox for increased quality assurance in Electron-Beam welding processes <i>Michael Maasen, Steigerwald</i>
15.50	TBD <i>Jerry Gould, EWI</i>
16.20	Close of Day 1 and buses back to hotels
16.45	Arrival back at hotel
18.30	Buses leave hotel for dinner at Rolls-Royce Learning Development Centre



19.00	Arrival at Rolls-Royce LDC, drink and tour before dinner
19.30	Conference dinner (cost included in the conference fee)
22.30	Buses back to hotel in Derby

#### Thursday 24th September – Chair, EWI

08.00	Buses leave Midland Hallmark Hotel in Derby
08.30	Coffee
09.00	Welcome

#### Session 5 – Welding Technology 4

09.10	TBD <i>TBD, EWI</i>
09.40	Latest developments in electron beam equipment for customized applications <i>Uwe Clauss, Pro-Beam</i>
10.10	Getting the basics right for welding <i>Richard March, Rolls-Royce Plc</i>
10.40	Coffee

#### Session 6 - TBD

11.15	High speed inspection of Aerospace components - the Intacom programme <i>Ian Cooper, TWI Ltd</i>
11.45	TBD
12.15	TBD
12.45	<b>Lunch for first group</b>
12.45	First tour of Rolls-Royce Rotatives Centre
13.45	<b>Lunch for second group</b>
13.45	Second tour of Rolls-Royce Rotatives Centre
15.00	Buses back to hotels
15.30	Arrival back at hotels