

In-person and Online meeting

Innovations in joining technology for electric vehicle manufacture

This talk outlines TWI's work to assist in bringing electric vehicles from high cost, low volume niche production towards the target of low cost, high value, high quality mass production. This work includes: welding and joining solutions for advanced materials, dissimilar joining solutions for multi-material vehicle structures, advanced coatings and surfacing, non-destructive testing for quality control and new joining solutions for the many thousands of electric battery and motor connections found in EV propulsion systems.



Robotic joining of a carbon fibre battery housing to steel car body components

Presented by Sullivan Smith of TWI

Sullivan Smith is the Automotive Programme Manager at TWI, which he joined, from Tata Steel in 2011. Sullivan's specialisations include: resistance welding and mechanical fastening processes, the joining of dissimilar metals and joining of metals to polymers and composites. In his work related to electrical devices Sullivan has experience in the use of spot arc, ultrasonic welding, laser welding, soldering, wire bonding and percussive arc welding. Sullivan represents BSI on several ISO committees for resistance welding and is the Chair of the ISO committee for mechanical fastening.

Wednesday 14th December

6:00 p.m. Refreshments from 5:30

A sandwich buffet will follow the presentation.

The York Room, Lancaster Hall Hotel, 35 Craven Terrace, London W2 3EL.

The hotel is five minutes walk from Lancaster Gate Underground Station

Please register for *either* online or in-person attendance.

(It is not essential to enrol for in-person attendance but it helps for organising the catering)

<https://theweldinginstitute.com/events>