



Oil & Gas Industry Panel Meeting

Theme: Energy Transition and the Low Carbon Economy: Hydrogen & CCS, Renewable Energy and Digitalization

Date:

8th June 2023

Venue:

TWI Granta Park, Great Abington, Cambridge, CB21 6AL, UK

AGENDA

08:30 – 09:00	Arrival & Refreshments	
09:00 – 09:15	Introduction & Welcome Address	John Hill TWI Director of Technology & Strategy
09:15 – 09:30	Keynote Speaker - TBC	
<u>Session 1: Hydrogen Economy & CCS</u>		
09:30 – 09:50	Materials Performance in Supercritical CO ₂	Shiladitya Paul TWI, Product Dev. Manager – Surfacing, Corrosion & Interface Engineering
09:50 – 10:10	Assessment of Barrier Performance and Lifetime of Polymeric Material for Hydrogen & CCUS	Bernadette Craster TWI Technology Fellow – Surfacing, Corrosion & Interface Engineering
10:10 – 10:30	Novel Coating Solution for Hydrogen Embrittlement for Gas Pipeline via EHLA	Yingwei Kylee Wu TWI, Project Leader – Lasers and Additive Manufacturing
10:30 – 10:50	Panel Discussion: Hydrogen Economy & CCS – Challenges & Solutions	Jon Blackburn TWI Group Manager, Strategic Programmes for Growth
10:50 – 11:05	Break & Networking	



<u>Session 2: Renewable Energy</u>		
11:05 – 11:25	Laser Welding at TWI supporting Energy Transition and the Low Carbon Economy	Paola De Bono TWI Section Manager – Laser & Sheet Processes
11:25 – 11:45	Advanced Coatings for Energy Transition	Alan Taylor TWI, Consultant – Novel Polymer Technologies
11:45 – 12:05	Fatigue of Joints in Wind Substructures	Carol Johnston TWI, Consultant – Fatigue Integrity Management
12:05 – 12:25	Panel Discussion: Renewable Energy – Challenges & Solutions	Jon Blackburn TWI Group Manager, Strategic Programmes for Growth
12:25 – 13:10	Lunch & Networking	
<u>Session 3: Digitalization</u>		
13:10 – 13:30	Applications of Numerical Modelling to Support Energy Transition	Michael Roy TWI, Finite Element Analysis – Numerical Modelling
13:30 – 13:50	A Discourse on Pipeline Safety Management in the New Era	David Newman TWI, Principal Project Leader – Asset Integrity Management
13:50 – 14:10	The Development of Digital Twins for Structural Health Monitoring	Graham Edwards TWI, Consultant – Non-Destructive Engineering
14:10 – 14:30	Panel Discussion: Digitalization – Challenges & Solutions	Jon Blackburn TWI Group Manager, Strategic Programmes for Growth
14:30 – 14:45	Break & Networking	
14:45 – 15:00	TWI - Joint Industry Projects	Jialin Tang TWI JIP Proposals Manager
15:00 – 15:45	Meet our TWI Experts	ALL
15:45 – 16:00	Meeting Summary & Close	