

## TWI Energy and Construction Industry Panel Meeting

### **Theme: Driving to a Net Zero Carbon Future for the Energy and Construction Industries**

**Date:**

Tuesday 6th June 2023

**Venue:**

SOFITEL Abu Dhabi Corniche  
Corniche East Road, Abu Dhabi

#### AGENDA

<b>08:30 – 09:00</b>	<b>Arrival &amp; Refreshments</b>	
<b>09:00 – 09:15</b>	Welcome & Introduction	Ali Elkordi, Deputy Regional Manager of TWI ME
<b>9:15 – 09:30</b>	TBC	Mohamed Saeed Alameri, Manager Engineering Services, ADNOC
<b>09:30 – 09:45</b>	TWI Industrial Membership	Ameni Lounissi, Construction Sector Manager
<b>Session 1: A Spotlight on Non-Metallic Materials</b>		
<b>09:50 – 10:00</b>	Non-Metallic Materials in O&G and Construction Industries – Current Applications and Limitations	Farshad Salamat-Zadeh, BD Manager for Non-Metallics
<b>10:00 – 10:10</b>	Non-Metallic Materials in Hydrogen Environment	Bernadette Craster, TWI Technology Fellow
<b>10:10 – 10:20</b>	Material challenges in Hydrogen Environments	Joanna Nicholas; MPC Team Manager
<b>10:20 – 10:50</b>	Panel Discussion - Materials Selection and the Transition to a Low Carbon Energy Future	<b>Facilitator:</b> Ameni Lounissi
<b>10:50 – 11:00</b>	<b>Break</b>	

<b>Session 2: Additive Manufacturing – The Future of 3D Printing &amp; Powder Technologies</b>		
<b>11:00 – 11:10</b>	Additive Manufacturing – Current status, Future Developments, Certification and Qualification	Emily Davison, LAM Senior Engineer
<b>11:10 – 11:20</b>	Near Net Shape Powder Metallurgy Hot Isostatic Pressing	Raja Khan, Technology Consultant, TPT
<b>11:20 – 11:30</b>	AM Components - Lifecycle Performance Aspects	Joanna Nicholas, MPC Team Manager
<b>11:30 – 12:00</b>	Panel Discussion – Additive Manufacturing, Present Capabilities and Future Developments	<b>Facilitator:</b> Chris Houghton
<b>12:00 – 13:00</b>	<b>Prayers and Networking Lunch Break</b>	
<b>Session 3: Why the Future is Digital, Technologies for Prediction, Automation &amp; Control</b>		
<b>13:00 – 13:15</b>	AI and Software Approaches for Data Analysis	Kai Yang, Senior Project Leader- NDE Group
<b>13.15-13.35</b>	Automation and Robotics in NDE	Kai Yang, Senior Project Leader- NDE Group
<b>13:35 – 13:50</b>	Digital Twins - use in Asset Integrity Management	Chris Houghton, Consultant, TWI Gulf
<b>13:50 – 14:00</b>	<b>Break</b>	
<b>Session 4: Panel Sessions on Selected Topics (in parallel)</b>		
<b>14:00 – 15:00</b>	Breakout Session - nominated topic 1 (from sponsor)	<b>Facilitator:</b> Farshad Salamat-Zadeh
<b>14:00 – 15:00</b>	Breakout Session - nominated topic 2 (from attendees)	<b>Facilitator:</b> Chris Houghton
<b>14:00 – 15:00</b>	Meet the expert - One-on-one requests with TWI experts	<b>Facilitator:</b> Ameni Lounissi
<b>15:00 – 15:30</b>	<b>Meeting Summary / Next Steps – close meeting</b>	