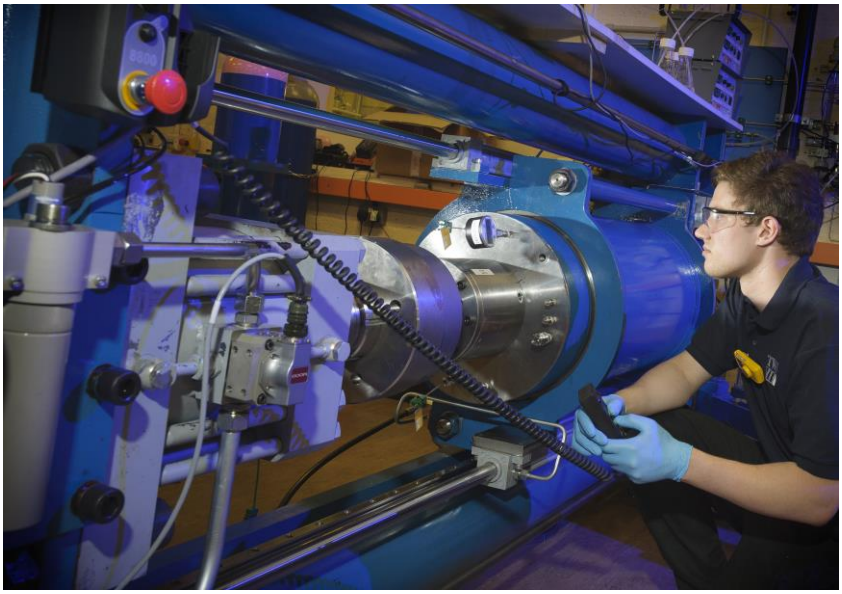
The Welding Institute London Branch and Kent Branch
The Institute of Corrosion London Branch

In-person and Online meeting

Mechanical testing of metals in H_2S and H_2 environments

Presented by

Matt Haslett MBA CEng MIMechE FWeldI IWE



In this presentation Matt will talk about the facilities and mechanical tests conducted in hydrogen sulphide (H_2S) and gaseous hydrogen (H_2) environments at TWI's purpose-built laboratories located at Granta Park, near Cambridge.

Hydrogen containing environments can have a major degrading effect on material properties (such as fracture toughness and fatigue resistance), due to the ingress of hydrogen atoms. TWI Limited have a long history of conducting cutting-edge mechanical testing and associated research and development of metals in these aggressive environments.

There is very little standardisation and guidance available for conducting tests in these environments, which makes conducting tests and interpreting results challenging, with the added critical consideration of maintaining health and safety standards.

Matt is the Team Leader for Environmental Testing in the Fatigue and Fracture Integrity Management Section at TWI, with experience in mechanical and structural engineering. His main areas of expertise lie in fracture toughness testing, mechanical testing, Engineering Critical Assessment (ECA), full-scale testing and bespoke mechanical testing.

Matthew also organises TWI's training course on Structural Integrity Assessment to BS 7910 and lectures on the Design and Construction module of the EWF/IIW Welding Diploma.

Thursday 11th April 2024

Time: 6:30 p.m.

Refreshments from 6:00 p.m. and buffet to follow

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

Underground and rail: Lancaster Gate (5 mins walk) Paddington (10 mins walk)

Please register for either online or in-person attendance.

(You need not enrol for in-person attendance but it helps for organising the catering)

https://theweldinginstitute.com/events