ICorr London Branch

February Meeting

12th February 2026 18:00-20:00 hours

Arrival **18:00-18:30 Hours**

Refreshments will be provided

Presentation **18:30- 19:30**

Nick Bander

"Critical Service Isolation: Why Yesterday's Designs Fail Today"

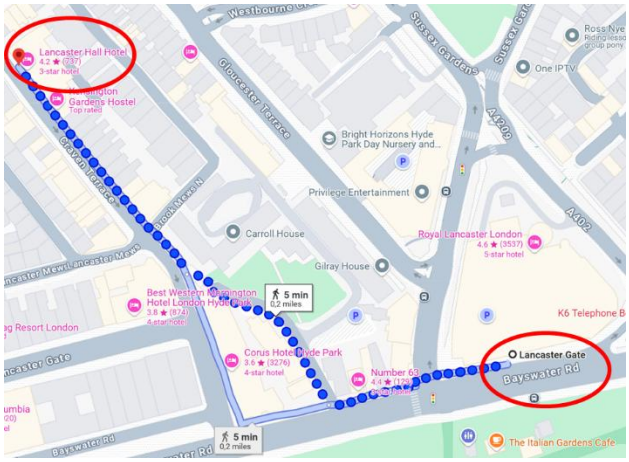
Details of talk overleaf

Après presentation **19:30-20:00 (or later)**

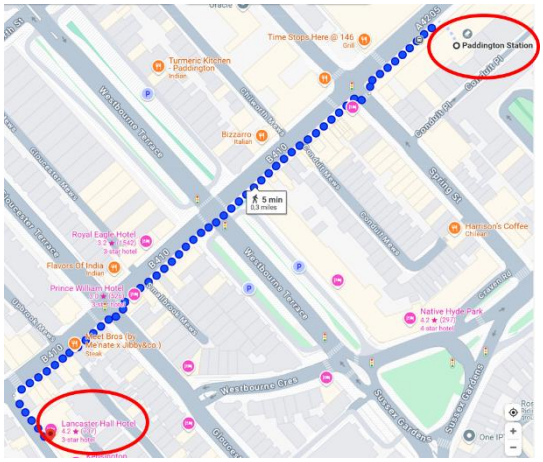
Food and drinks

The venue: **The York Room, Lancaster Hall Hotel**
35 Craven Terrace
London
W2 3EL

Nearest Tube / Train Stations:
"Lancaster Gate" Station and "Paddington" Station.
Both approx. 5 mins walk



Route between the **"Lancaster Gate"** Station and the **Lancaster Hall Hotel**



Route between the **"Paddington"** Station and the **Lancaster Hall Hotel**

Speaker name: Nick Bander

Presentation title: “Critical Service Isolation: Why Yesterday’s Designs Fail Today”.

Abstract

Pipeline operating conditions are becoming increasingly severe, with higher pressures and temperatures, more sour and conductive media, stricter safety requirements, and reduced tolerance for downtime. These changes are placing new demands on electrical isolation systems used for corrosion mitigation in critical service pipelines. Designs that were once adequate are now being pushed beyond their intended limits.

This presentation examines why isolation design and specification are more important than ever. It reviews the evolution of isolation technologies and highlights common failure mechanisms observed in laboratory and field conditions, including GRE permeation, chemical incompatibility, hydrolysis, loss of bolt load, fire exposure, and conductive media bridging. Key design factors such as material selection, gasket geometry, and inside-diameter sealing strategies are discussed.

Practical design guidance and lessons learned are presented to help improve the reliability, safety, and long-term performance of pipeline isolation systems operating in today’s demanding environments.

Biography:

Nick Bander is the Director of Engineering and Product Management at GPT Industries with over 15 years of experience in mechanical engineering, corrosion mitigation, and pipeline integrity. He holds a BS in Mechanical Engineering and maintains certifications in cathodic protection (CP1/CP2) and ASME bolting and piping. Nick has supported domestic and international energy projects across more than a dozen countries and has played a key role in the development and launch of multiple isolation and sealing technologies. A named inventor on several patents, he focuses on translating engineering rigor into practical, field-proven corrosion control solutions.