



JOINT EVENT: ICORR ABERDEEN BRANCH AND BINDT NORTHEAST SCOTLAND

Thursday 7th November 2024, Start Time: 15:00 (UK Time)

Online Presentation Only

Registration link:

https://us06web.zoom.us/webinar/register/WN_Z5Kb71vZRraIFZeslxurlg

Case Studies - A Pathway To Thickness Measurement Locations (TMLs) Digitalisation

Speaker: Dr. ChengHuan Zhong

Inductosense Limited

Approximate Event Programme:

14:55 – 15:00	Webinar Login / Set-Up.
15:00 – 15:10	Introductions ICorr and BINDT
15:10 – 15:50	Technical Presentation
15:50 – 16:00	Q&A Session
16:05 – 16:05	Closing Remarks.

Topic: A Pathway To Thickness Measurement Locations (TMLs) Digitalisation

Synopsis: Permanently installed sensors provide more accurate results compared to conventional inspection due to their consistent positioning and coupling. However, due to their cost, they are normally used for monitoring critical areas for corrosion rate estimation. There are hundreds of thousands of thickness measurement locations (TMLs) on the site, making it challenging to monitor all of them. We propose an alternative approach that combines passive sensors and a different data collection method to enable a cost-effective, consistent, and deployable solution. In this work, we present how the handheld data collector, robotics, and online solutions work together to address different applications with accessibility and inspection frequency. The presentation concludes with a few case studies aiming to demonstrate the benefits of this approach.

Presenter: Dr. ChengHuan Zhong

ChengHuan received a B.Eng. degree in mechanical engineering and a PhD. degree from University of Bristol, Bristol, England, in 2015. From 2015 to 2016, he was a Research Associate in the non-destructive testing research group at the University of Bristol. Both his PhD and Research Associate work was focused on the development of passive wireless transducers for structural health monitoring. He is a co-founder of Inductosense Ltd, and the Chief Technology Officer. He has managed multiple product development projects such as sensors, handheld data collector and remote data collector.



Additional Information:

- Registration information will be shared with our Branch volunteers to help facilitate the event.
- **For Continuing Professional Development (CPD) or to join our Mailing List, request by email to: ICorrAbz@gmail.com**

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