



Date : 14 Nov 2019 (Thursday)
Time : 2.00pm - 5.00pm

**Synopsis:**

Manufacturers of performance-engineered metal products, for example: bars and billets; welded pipes; and rail components, require high-speed and high-reliability automated inspection to meet their production targets. The end-users of these metal products in safety-critical industries demand the maximum sensitivity and coverage to ensure the highest quality and safe operation in service. In this seminar, the utilisation of advanced automated NDT techniques to meet these competing demands will be discussed.

In particular, there will be a focus on the use of ultrasonic phased array probes and advanced electronics to perform high-speed and high-sensitivity inspections. The basics of phased array technology will be presented, along with the benefits and limitations. In addition, an overview of eddy current arrays for the detection of surface-breaking defects will be discussed.

It will show how these advanced NDT methods can be utilised in automated systems for a wide range of inspection applications including: wind turbines, aerospace, automotive, rail, and oil & gas.

Finally, the seminar will end with a demonstration of the latest software that can significantly improve inspection set-up and collection speeds, and automate the analysis of inspection data. This includes the latest Total Focusing Method (TFM) technology.

Contents:

- Overview of automation for NDT
- An introduction to ultrasonic phased array and its benefits
- Automated weld inspection solutions
- Automated NDT solutions for aerospace, automotive and rail applications
- Live demonstration of FMC / TFM
- Live demonstration of WeldSight software

Non-WIM members:
RM50.00 per person
 (including 6% SST)

**FREE FOR WIM
 MEMBERS**

Speaker:

Dr Christopher Lane graduated from the University of Bristol, UK with a First Class degree in Mechanical Engineering in 2007, and was awarded a PhD from the same University in 2011. His PhD topic was on the development of 2D ultrasonic arrays and the total focusing method (TFM) for aerospace applications.

He has worked in NDT for the last 12 years, working as a Level III at Rolls-Royce plc and later developing robotic inspection systems at a research institute in Singapore. Christopher has been awarded the British Institute of NDT Young Person's Achievement award and the Rolls-Royce award for Technical Innovation. He is a Chartered Engineer with the Institute of Mechanical Engineering and a Certified Project Manager from the Project Management Institute.

Christopher is the Olympus Sales Manager for NDT System and Integration for the Asia Pacific region.

**Who should participate?**

Engineers, Plant Managers, Production Managers, Maintenance Managers, QA/QC Managers and all those involved in NDT and welding activities.

Benefits:

First hand knowledge and information from an expert from a leading global NDT company on the latest NDT techniques and applications and how it can benefit your manufacturing operations.

Location : TWI Technology (S.E.Asia) Sdn Bhd
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