



NON-DESTRUCTIVE TESTING SOCIETY (SINGAPORE)

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## Technical Seminar on

# “Phased Array Inspection of HTHA (High Temperature Hydrogen Attack) – Total Focusing Method (TFM) and Full Matrix Capture (FMC)” and Other Special Applications

**Presented by** Mr. Hubert Voillaume, Product Specialist

EDDYFI Technologies

**VENUE** Level 1, Training Room T1C,  
9, Jurong Town hall road, Trade association hub,  
Singapore 609431

**DATE** Friday, 7<sup>th</sup> Sept 2018

<b>TIME</b>	5.30 – 6 PM	Registration and Networking
	6 – 7 PM	Technical Seminar
	7 – 7.30 PM	Question and Answer Session.
	7.30 – 8.30 PM	Dinner

**Event Sponsor:** [NDT Instruments Pte Ltd, Singapore](#)

### RSVP:

S.K Babu	– 9111 0635
P. Pugalendhi	– 9105 2231
Jayesh Bhatt	– 9735 4180

**Admission Fee:** Only for pre-registration by e-mail : *Free of Charge*

Please register by e-mail to [membership@ndtss.org.sg](mailto:membership@ndtss.org.sg) before 4<sup>th</sup> Sept 2018



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About the Seminar:

## **“Phased Array Inspection of HTHA (High Temperature Hydrogen Attack) – Total Focusing Method (TFM) and Full Matrix Capture (FMC)” and Other Special Applications**

### **ABSTRACT**

High temperature hydrogen attack (HTHA), also called hot hydrogen attack, is a problem which concerns steels operating at elevated temperatures (typically above 400°C) in hydrogen environments, in refinery, petrochemical and other chemical facilities and, possibly, high pressure steam boilers.

HTHA damage is detected using AUBT method (Advanced Ultrasonic Backscattering Technique) that evaluates the frequency and velocity dependence to a non-damaged area.

This talk will discuss in detail the advancements in equipment which helps detecting HTHA and other applications which can be covered using TFM/FMC techniques.

**About the speaker:**



**Hubert Voillaume**

*With a degree from University of Paris, Hubert has been extensively involved in Research and Development of various NDT tools. During his employment with Airbus Innovations as NDT Project leader and Research leader, he was heavily involved in the development of SMART NDT tools and AirCOBOT. He was also involved in the development of GEKKO, first portable TFM equipment by M2M which was acquired by EDDYFI technologies recently. He is currently working as Product Specialist for GEKKO and MANTIS, the only portable TFM Equipment.*

**Thanking you, For & Behalf of NDTSS**

**P.Pugalendhi (Pugal),  
Honorary Secretary.**