

e-NEWSLETTER

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<http://www.msnt.org.my>

MSNT Members A Welcome To A Special Talk On

Current Development On Acoustic Emission Research In Malaysia

(Prof. Dr. Nordin Hassan, UKM)

Chairman, MSNT Acoustic Emission Group

(9:00am To 9:30am)

And

22nd MSNT AGM

9:30am To 13:00pm

Nilai Spring Resort

21st April 2011

IAEA/RCA Course on the Application of ISee and aRTist software for Digital Industrial Radiography

The whole world is going digital. So do industrial radiography. The International Atomic Energy Agency (IAEA) and Regional Cooperative Agreement (RCA) is organizing a Regional Training Course as a part of their commitment to promote green technology that give a minimum or no negative impact to the environment. Following our success in organizing courses related to DIR in the past three years, IAEA/RCA has once again given an honour to Malaysia to host this event. Event that will take place from 21st to 25th July 2011 in Nuclear Malaysia is expected to draw between 20-25 participants from all RCA Member States. It also encourages the growth of DIR application in the RCA region.



Special guests and participants during the opening ceremony of the IAEA/RCA RTC on the Application of DIR in 2009.



MSNT Board of Directors Meeting

4th MSNT Board of Directors (2010-2012) meeting was held at Menara Dayabumi, PETRONAS on 30/3/2011. The meeting was attended by all Board Members except one. Issues discussed in this meeting include:

1. Request for tax exemption for NDT equipment
2. Publication of regular MSNT journal, SPECTRA and special issue of SPECTRA
3. Preparation for 22nd MSNT AGM
4. Preparation for MINDTCE 11

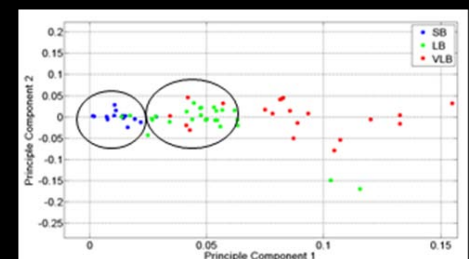
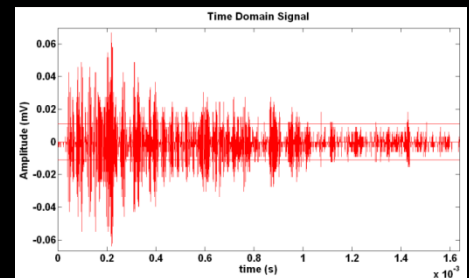
MSNT conveys our special thanks to Mr. Zamaludin and PETONAS for allowing us to use its facilities for this meeting



MSNT Board of Directors during recent meeting at Menara Dayabumi.

Investigation of Elastic Deformation of API5L X70 Steel Using Acoustic Emission Technology and Principal Component Analysis: Malaysian Acoustic Emission Group, UKM.

Members of Malaysian Acoustic Emission Group (MAEG) of MSNT, Universiti Kebangsaan Malaysia have successfully investigated the behavior of API5L X70 Steel under elastic deformation. Tensile testing was conducted using Zwick/Roell Universal Testing Machine. During the tensile testing of the API 5L X70 steel, acoustic emission signals were collected using wide band piezoelectric sensor, SE2MEG-P, and AE analyser, AMSY-5, from Vallen System. Having thoroughly analyzing the captured AE signals, the signals can be divided into three main groups based on their duration. The groups were denoted as short burst (SB), long burst (LB) and very long burst (VLB) respectively. The SB and LB groups dominated at the initial stage of the elastic region and the VLB groups mostly appeared during the final stage of the elastic region. It is expected that the SB and LB signals were initiated from the localized deformation in a single grain. Furthermore, the VLB signals could originated from the mechanism of local plastic formation around inclusions which capable of generating high AE energy. The SB, LB and VLB AE signals can be successfully grouped using clustering technique based on principal component analysis..



Classification of the AE signals based on principal component analysis.

SQAS has been authorised by the Department of Occupational Safety and Health Malaysia (DOSH) as the Inspecting Authority under the Fourth Schedule of the Factories and Machinery (Steam Boiler and Unfired Pressure Vessel) Regulations 1970. With this authorization, SQAS, led by one of Malaysian NDT expert, Mr. Shamsudin Deraman, provides third party and verification services on welded or non welded structures and components on behalf of owners or employers during construction, in-service and shut down for independent reporting. Verification services include any technical matters related to NDT.



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**Announcing the Organization
Of
Malaysian International NDT
Conference and Exhibition 2011
(MINDTCE11)**

**By
Malaysian Society NDT (MSNT) and
Malaysian Welding and Joining Society (MWJS)
On**

21st – 22nd November 2011

Port Dickson

**ALL INVITED TO SUBMIT PAPERS
FOR PRESENTATION**

**FOR FURTHER ENQUIRIES CONTACT
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