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E-NEWSLETTER

Message from the President



Greetings MSNT members and colleagues,

MSNT turns 33 this year, growing from an initiative by a group of high-spirited founding members with a common interest in NDT, to shaping the landscape of NDT in Malaysia. Looking back, the Society, in close cooperation with other NDT stakeholders in Malaysia, has made an impact through important contributions in supporting the establishment of Malaysia's NDT certification scheme, contributing to the development of standards and regulations, and involvement in many aspects of standards and regulations, and involvement in many aspects of improving the NDT services, including safety and security. We will continue to play our role and function as a Society to support and strengthen every aspect of NDT to support its growing needs in Malaysia.

At the beginning of April 2022, Malaysia entered the Transition to Endemic Phase, which sees its border reopen. Many projects have been launched, indicating good business and creating demands for NDT services. Since years ago, MSNT has repeatedly said that NDT should come hand in hand with quality. Therefore, the foundation of the NDT ecosystem in Malaysia should also be formed by components of NDT chains internationally recognized in accordance with related standards. In this regard, this edition of our newsletter will feature an article dedicated to the accomplishment of a local company to be accredited to ISO 17025, thus the first in the South East Asia region to provide calibration services for NDT equipment.

On many occasions, MSNT also provides NDT service providers, their clients, stakeholders, NDT equipment distributors, suppliers, sales and services with an international-level platform to showcase and exhibit NDT technologies and products. Thus, on the 16th & 17th of August 2022, MSNT has organized the much-awaited event in NDT, the 6th Malaysia International NDT Conference and Exhibition (6th MINDTCE) at the Sunway Resort Grand Ballroom. The event was very successful, and due to this success, we will publish a special e-newsletter to commemorate the 6th MINDTCE, to show our appreciation to everyone involved.

We hope MSNT has served the NDT community well for the past 33 years and look forward to working with all members and stakeholders in the years ahead.

Dr. Ilham Mukriz Zainal Abidin

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APPLUS+ CARRIES OUT THE GUIDED WAVE TESTING (GWT) FOR AN OIL AND GAS COMPANY IN MALAYSIA

Our team at Applus+ in Malaysia completed Guided Wave Testing (GWT), using a long-range ultrasonic testing (LRUT) application, for a leading oil and gas company in Sarawak, Malaysia.

Guided wave ultrasonic testing is an advanced ultrasonic testing (UT) technique used in this project for its efficiency in testing large volumes of material from a single test point.



Figure 1. Mounting LRUT Transducer

"Our team completed guided wave testing for a leading oil and gas company in Sarawak, Malaysia"

By implementing LRUT using guided waves, our team could examine 100% of the pipe wall's volume without moving the transducer tools.

Conversely, guided wave testing does not require coupling fluid during inspection compared to conventional ultrasonic testing. In addition, LRUT uses a much lower frequency at approximately 50kHz compared to traditional UT at 1-5MHz.

Applus⁺

Depending on the pipe's condition, the guided wave can cover up to 350 metres of pipework from a single test point. No other method can cover such a large surface-area inspection in one test. Changes in the pipe's thickness, either on the inside or outside, will reflect the guided wave and be picked up by the transducer. Long-range ultrasonic testing can inspect pipes with diameters from 2" to 78" and an increased temperature capability to 240°C.

Metal loss in pipelines or piping is a major issue for the oil and gas industry, especially petrochemical plants. With LRUT technology, the plant owner has a comprehensive survey report on their pipeline with minimal time required.

"metal loss in pipelines or piping is a major issue for the oil and gas industry"

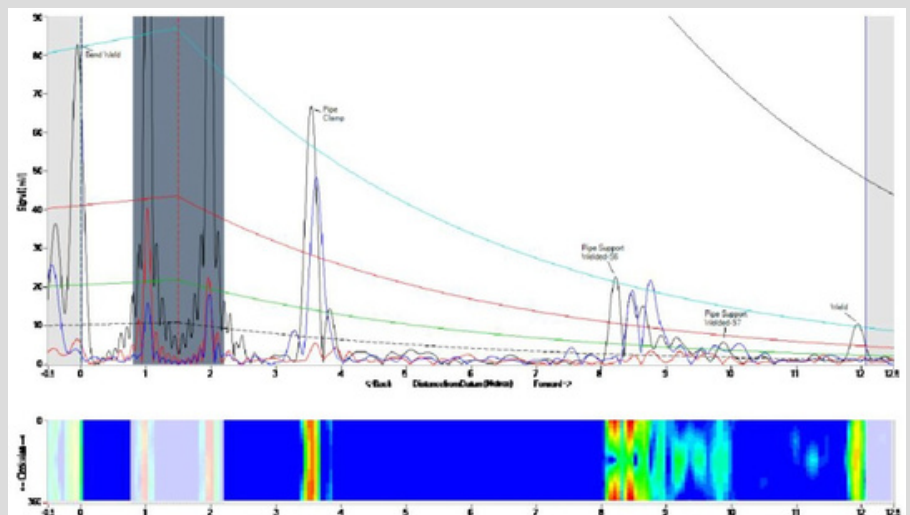


Figure 2. LRUT Sample Scan

For this project, our personnel skilled in rope access techniques used Teletest MK-3 to identify certain stretches of pipes with degrees of wall loss (cross-sectional areas). In some sections, sedimentation was identified due to pipe sagging.

MSNT MERCHANDISE ONLINE SHOPPING PLATFORM

MSNT has recently launched its online E-Shop, which can be accessed at shop.msnt.org.my. MSNT official merchandise is put on sale in this online shop besides being a platform where online payments for MSNT events can be made. Purchasing an item is easy, just like any other platform. Select the item to be bought, add it to the cart, fill in your details and check out the online payment gateway. There are various payment methods available, such as bank transfer, credit card, etc. Visit MSNT E-shop, or it can be accessed through the QR codes bar below to check out our merchandise.



New MSNT Corporate Jersey
& Polo Shirt !!

SHOP NOW!



MELCHERS MALAYSIA'S SUCCESS AND PLANS FOR ISO/IEC 17025: 2017

For over two years, the Calibration Department within C. Melchers GmbH & Co., Malaysia Branch has worked tirelessly to earn the official accreditation of ISO/IEC 17025:2017 from Standards Malaysia.

Since September 2021, Melchers Malaysia has been the only Southeast Asia company to have received accreditation to perform Ultrasonic Flaw Detection Equipment (UTFD) and Phased Array Ultrasonic Equipment (PAUT) calibration based on BS EN ISO 22232-1:2020.

The recognition is a testament that Melchers Malaysia's Calibration Department has the technical competence to operate by MS ISO/IEC 17025:2017, traceable to the National Metrology Institute (NMI).





The achievement has opened more local and international doors and paved the way for new business collaborations and future business tie-ups. The department is currently also in an ongoing partnership with a laboratory in Europe for proficiency testing.

The Calibration Department has since calibrated equipment under the said scope for various fields like aviation and oil & gas, to name a few.

Even with the new milestone achievement, the Calibration Department of Melchers Malaysia does not show slowing down. The recent success has motivated the team to push its capabilities to greater heights; the team is now extending their scope of expertise to Magnetic Particle Inspection, Eddy Current Testing and a few others.



MSNT 33rd Annual General Meeting

The 33rd MSNT Annual General Meeting (AGM) was successfully held on the 1st of June 2022 at Bangi Resort Hotel, Selangor. The AGM was attended by MSNT members, consisting of practitioners, service and training providers, traders and suppliers, stakeholders, researchers, and academicians. The AGM celebrated MSNT's 33rd anniversary, seeing hundreds of milestones achieved.



Group photo of MSNT members

During the AGM, MSNT members elected the 2022-2024 Board members comprised of personnel from various industries, including aerospace, oil and gas, and power generation. Two additional board members, who can contribute to the interest of MSNT, will be constitutionally appointed soon. The newly appointed Board members are looking forward to more participation by MSNT members in upcoming programs. The elected Board members list is published on the MSNT website, <https://www.msnt.org.my/board-member/>.

MSNT 33rd Annual General Meeting



Thank you to all members!!

MSNT BOWLING TOURNAMENT

MSNT has successfully organized MSNT Bowling Tournament 2022 on the 12th of February 2022 at Wangsa Bowl IOI City Mall. Twenty bowlers representing nine teams demonstrated their bowling skills during this best of 2 games tournament. We are grateful to our tournament sponsors, Epic Aero Sdn. Bhd., Asset Integrity Technology Sdn. Bhd. (AITSB), and Altec Industrial & Engineering Supply Sdn Bhd.

Their contribution has allowed MSNT to deliver the best experience to the bowlers who committed to the event despite various difficulties due to the current conditions.

We are pleased to announce the winners for the following categories:

Individual

- 1st: Mohamad Sufi bin Hamdan (Epic Aero Sdn. Bhd.) 271 points
- 2nd: Amry Amin bin Abas (LENDT, Nuklear Malaysia) 252 points
- 3rd: Mohd Kamal Shah bin Shamsuddin (28T & 29 Nuklear Malaysia) 251 points
- 4th: Paul Cheng (Baker Hughes) 231 points
- 5th: Noorhazleena binti Azaman (LENDT, Nuklear Malaysia) 221 points

Team

- 1st: LENDT Nuklear Malaysia 473 points
- 2nd: 28T & 29 Nuklear Malaysia 469 points
- 3rd: Epic Aero 2 462 points
- 4th: Baker Hughes 430 points
- 5th: Epic Aero 1 388 points
- 6th: Asset Integrity Technology 377 points

Ladies

- 1st: Noorhazleena binti Azaman 221 points
- 2nd: Nor Hafzan Sarah binti Almuin 91 points

Congratulations to the winners !! Thank you to the sponsors and players who made this event successful. We shall meet again in the 2023 tournament.

MSNT BOWLING TOURNAMENT





IT'S A WRAP!

*Thank you to all sponsors,
participants & exhibitors*

MSNT wishes you all the best.

See you in the 7th MINDTCE.



6th MINDTCE

EXHIBITOR LIST



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