

Day 2 - Friday 28th February 2025			
08:30 - 09:15	Registration		
09:15 - 10:00	Keynote Session - Andy Malcolm		
09:15 - 10:00	A Complete Story of NDT with Fracture Mechanics Professor Younho Cho Pusan National University, South Korea		
10:00 - 10:30	Tea Break		
10:30 - 12:30	Technical Session		
	Track A - Guided Wave - Younho Cho		Track B - Acoustics - Madhavan Krishnamurthy
10:30 - 10:50	A3.1	Enhancing Guided Wave Tomography for Improved Defect Detection in Critical Structures Igor Sakhabiev, Maolin Li, Younho Cho and Young H. Kim Pusan National University, South Korea	B3.1 Sound Analytics using Artificial Intelligence (AI) / Machine Learning for Failure Prediction and Anomalies Detection Keith Kee Corrosion Association Singapore, Singapore
10:50 - 11:10	A3.2	Investigation of Meta-structures' Influence on Guided Wave Properties in Nondestructive Testing Jiannan Zhang, Younho Cho and Young H. Kim Pusan National University, South Korea	B3.2 Acoustic resonant imaging technique for characterization of photoresist properties depending on hard bake temperature Hyeilin Kim and Hironori Tohmyoh Tohoku University, Japan
11:10 - 11:30	A3.3	Ultrasonic Higher Order Mode Cluster (HOMC) Guided Waves - Helping Visualize Hidden Corrosion In Piping Including Pipe Supports K.S. Venkataramana and Aditya R Iyer Escon Dhvani International Pte Ltd, Singapore	B3.3 A Modern Approach to a Classic Inspection Technique Jeremy Ring and Terry Haigler Applied Inspection Systems Inc., USA
11:30 - 11:50	A3.4	Imaging delamination of CFRP using air-coupled ultrasonic guided wave Yi Feng Ang, Peng Zuo, Jimmy Aung, Zheng Zheng Wong and Andrew A. Malcolm Advanced Remanufacturing & Technology Centre (ARTC), Agency for Science, Technology and Research (A*STAR), Singapore	B3.4 Vibro-acoustic modulation for damage detection - Investigation of nonlinear effects for contact-type damage Andrzej Klepka and Kajetan Dziedzic AGH University of Krakow, Poland
11:50 - 12:10	A3.5	Industrial structural health inspection based on non-contact ultrasonic technique Bainian Long, Shutian Cheng, Lvming Zeng and Xuanrong Ji WiSono Technology Co. Ltd, China	B3.5 Acoustic Emission Testing: Unlocking Hidden Insights for Structural Integrity Johann Catty, Rui Chuan Sia, Muhammad Harith Mirza Mohd Rafi and Kie Yong Lim CETIM-MATCOR, Singapore
12:10 - 12:30	A3.6	Comparison of Advanced Ultrasonic Techniques application for Corrosion Mapping and Detection Gaurav Kaushik and M.S. Vetrivelvan Setsco Services Pte Ltd, Singapore	B3.6 Defect detection and localization in hydrogen pipelines using acoustic emission technique Zi Wen Tham, Santhakumar Sampath and Lei Zhang Institute of Materials Research and Engineering, Agency for Science, Technology and Research, Singapore
12:30 - 13:15	Lunch		
13:15 - 14:55	Technical Session		
	Track A - NDE 4.0 - Shaik Mohiuddin		Track B - X-ray Imaging and X-ray Computed Tomography - M.S. Vetrivelvan
13:15 - 13:35	A4.1	NDE N_Ext for Future Labs Pranay Wadyalkar OMS Software, Australia	B4.1 Tangential and Double Wall Radiographic Pipe Inspection D'Ademo Nick (P), Amier Gaddafi DURR NDT, Lingtec Instruments
13:35 - 13:55	A4.2	NDE4.0 in Action - Driving Operational Efficiencies Through Unified Digital Platforms Srijan Tiwari and Krishnan Balasubramanian Indian Institute of Technology Madras, India	B4.2 X-ray Computed Tomography Based Metrology of Additively Manufactured Lattice Structures Ronnie Ssebagala University of Huddersfield, UK
13:55 - 14:15	A4.3	The Role of NDE 4.0 in Industry 4.0: Automation, Collaboration, and Innovation Siddharth Shanker, K.S Venkataraman and Aditya R Iyer Dhvani Analytic Intelligence	B4.3 Multilayer PCB Back-drill Hole Measurement with X-ray Triangulation Imaging Tong Liu and Ting Ying Jiang Singapore Institute of Manufacturing Technology, Agency for Science, Technology and Research, Singapore
14:15 - 14:35	A4.4	Digital Twins - Asset Management for Process plants Gowtham Eian and Vigneshwar Prabu Hoversurv Technologies Pte Ltd / Masterscan Engineering Pte Ltd, Singapore	B4.4 A Comparative Study of XCT and Optical Methods for Surface Roughness Measurement in Metal Additive Manufacturing Weili Wang, Hwee Ping Ng, Chaoyu Dong and Tong Liu Advanced Remanufacturing and Technology Centre, Agency for Science, Technology and Research, Singapore
14:35 - 14:55	A4.5	NDE 4.0: Custom Robotic solution for Corrosion Mapping of vertical reformer heater tubes at height T S Mohamed Washeem and Vigneshwar Prabu Masterscan Engineering Pte Ltd, Singapore	B4.5 Image processing for microprocessors TIM voids detection Tong Liu and Ting Ying Jiang Singapore Institute of Manufacturing Technology, Agency for Science, Technology and Research, Singapore
			B4.6 Automation of 2D X-ray inspection using LUA scripts and timing two non-connected programmes Marcus Ng Singapore Institute of Manufacturing Technology, Agency for Science, Technology and Research, Singapore
14:55 - 15:10	Tea Break		
15:10 - 16:30	Technical Session		
	Track A - Eddy Current and Other NDT Methods - Ramanathan Kaushal		Track B - Other NDT Methods - Muthuramalingam Balakrishnan
15:10 - 15:30	A5.1	R-wave method for nondestructive electromagnetic testing on broken wires in the prestressed concrete cylinder pipe Feng Shang China Institute of Water Resources and Hydropower Research, China	B5.1 Lock-in Thermography Evaluation of Carbon Fiber Reinforced Thermoplastics for Defect Detection Sreedhar Unnikrishnakurup, Mohit Sharma, Ang Yi Feng, Jonathan Zheng, Vinod Kumar, Carlos Manzano, Zheng Zheng Wong and Andrew Ngo Institute of Materials Research and Engineering, Agency for Science, Technology and Research, Singapore
15:30 - 15:50	A5.2	Transition field electromagnetic technique for condition assessment of any metal Anup Nair and Shaik Mohiuddin NDT Technologies, India	B5.2 Importance of critical zone coverage - Storage tank inspection Andrew Simpson Eddyfi Technologies, Canada
15:50 - 16:10	A5.3	Advanced Automated Eddy Current for NDT Andoni Larrate and Amier Gaddafi IBG / Lingtec Instruments	B5.3 Non-ATEX Inspection Robotics in full Hydrocarbon Atmosphere Sean Peters Waygate Technologies Robotics, Singapore
16:10 - 16:30	A5.4	Enhancement of EMAT performance through transformer model Peng Zuo, Yi Feng Ang, Zheng Zheng Wong Advanced Remanufacturing & Technology Centre (ARTC), Agency for Science, Technology and Research (A*STAR), Singapore	B5.4 Autogenous Orbital Welding and Quality Control Challenges Muthuramalingam Balakrishnan Non-Destructive Testing Society Singapore
16:30 - 16:45	Closing Ceremony		