



Day 3 4th December 2019 Wednesday

TIME	PROGRAMME	
	<i>Melati Junior Foyer</i>	
08:00 - 08:45	Registration	
	<i>Melati Junior</i>	
09:00 - 09:45	Opening Ceremony	
	<i>Melati Junior</i>	
09:45 - 10:30	Residual Stress Ultrasonic Testing and Manufacturing without Residual Stress Prof. Xu Chunguang	
10:30 - 11:00	Coffee	
	<i>Orchid Room 4203 (A)</i>	<i>Orchid Room 4303 (B)</i>
	<i>Session Chair: Khaja Mohiuddin</i> S.We.A.1	<i>Session Chair: Madhavan. K</i> S.We.B.1
11:00 - 11:20	Quality & process control in LIMS software for NDT laboratories Pranay Wadyalkar (8039) S.We.A.2	Acoustic Shearography for Non-Destructive Testing of Materials and Structures Lei Zhang (8013) S.We.B.2
11:20 - 11:40	Improving the productivity of ultrasonic inspections with digital and mobile technologies Chris Udell (8024) S.We.A.3	Enhancing effectiveness of NDT of GFRP composite by combining results of laser vibrometry and active IR thermography Daria Derusova (8041) S.We.B.3
11:40 - 12:00	Making the shift from capital expense to operational expense for Ultrasonic Flaw Detector Equipment Chris Udell (8025) S.We.A.4	Efficient modeling and post-processing approaches for weakbond detection in CFRP composite using the integration of DS and PPT techniques Viet Phuong Bui (8015) S.We.B.4
12:00 - 12:20	The "Ultimate" NDE System Mato Pavlovic (8030) S.We.A.5	Standardization, Influences, Possibilities and Risks of UV LED Technology to Fluorescent Magnetic Particle Inspection (MPI) and Penetrant Inspection (FPI) Marc Briet (8009) S.We.B.5
12:20 - 12:40	Building TFM Procedures for challenging inspections such as ERW hook crack, Girth Welds, HTHA and others Daly Souissi (8047)	Experience with condition monitoring of steel wire ropes Alexander Mironenko (8032)
12:40 - 14:00	Lunch (Olympus Lunch Talk at Orchid Room 4303 - Portable XRD for Oil & Gas Exploration, Production and Refineries)	
	<i>Orchid Room 4203</i>	<i>Orchid Room 4303</i> (Industry Talks)
	<i>Session Chair: Jayesh Bhatt</i> S.We.A.6	<i>Session Chair: Dr Muthuramalingam</i>
14:00 - 14:20	Fully acoustic non-destructive testing (NDT) for carbon fiber reinforced plastic (CFRP) plate Tammy Bose (8037) S.We.A.7	Olympus
14:20 - 14:40	Corrected phase reconstruction in diffraction phase microscopy system Viet Phuong Bui (8016) S.We.A.8	Non-Intrusive Inspection (NII) - Tomorrow's Technology Saving Costs Today Eddyfi Technologies
14:40 - 15:00	Detection of Defects in Flexible Plastic Seals via Optical Coherence Tomography Zheng Zheng Wong (8023) S.We.A.9	Delivering Rotating Equipment Performance Through Digital Enablement SKF
15:00 - 15:20	Fully acoustic non-destructive testing (NDT) for carbon fiber reinforced plastic (CFRP) plate Tammy Bose (8038) S.We.A.10	Field Gradient Imaging Technology (This is New Technology) C. Melchers
15:20 - 15:40	IoT-Based Integrated Wireless Sensory Framework for Non-Destructive Monitoring and Evaluation of On-Site Concrete Conditions Abraham Olaniyi (8011)	Proceq Flaw Detector Live Proceq Asia
15:40 - 16:00	Coffee	
	<i>Orchid Room 4203</i>	<i>Orchid Room 4303</i> (Industry Talks)
	<i>Session Chair: M.S. Vetri</i> S.We.A.11	<i>Session Chair: Dr Muthuramalingam</i>
16:00 - 16:20	Ultrasonic Defect Inspection and Characterization for Wavy Composites Zhen Zhang (8026) S.We.A.12	Importation of CAD file improves and simplifies the evaluation of inspection results from complex geometries for Advanced Ultrasonic Phased Array Ichisa Engineering
16:20 - 16:40	Importation of CAD file improves and simplifies the evaluation of inspection results from complex geometries for Advanced Ultrasonic Phased Array Inspection Peter Toebben (8036) S.We.A.13	
16:40 - 17:00	Design and Fabrication of Phased Array Ultrasonic Transducer for Non-destructive Testing of Korean Railroad Ki-Bok Kim (8014) S.We.A.14	Smart Test Rigs for Research & Development in Condition Monitoring MITS Solutions
17:00 - 17:20	Oil and Gas Assets Condition Monitoring By High Sensitive PAUT Hydroform Corrosion Monitoring Technique for Integrity Assessment Chandramohan Balakrishnan (8007) S.We.A.15	Robotic NDT Technologies Techfuture (Zhengzhou Runde Delionscope/Guangzhou Dopple Electronic Technologies)
17:20 - 17:40	Improved in-service inspection for effective detection of HTHA Shaik Khaja M S.We.A.16	Upscaling your inspection and maintenance capabilities with Nexis NEXXIS
17:40 - 18:00	Digitalisation Of Ndt Business Process And Automated Administration Using Latest Technologies Thamarakrishnan S. M (8018)	
18:00 - 18:30		
18:30 - 22:00	Gala Dinner	



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3rd SINGAPORE INTERNATIONAL NDT CONFERENCE & EXHIBITION

4 - 5 December 2019 | Marina Bay Sands, Singapore



Day 4

5th December 2019

Thursday

TIME	PROGRAMME		
	<i>Melati Junior Foyer</i>		
08:00 - 08:45	Registration		
	<i>Melati Junior</i>		
09:00 - 09:45	The String Model A New Interpretation of The Metallic Structure and Its Connected Physical Phenomena <i>Dr. S. K. Babu & Prof. Len Gelman on behalf of Dr. G. Nardoni</i>		
	<i>Melati Junior</i>		
09:45 - 10:30	NDT 4.0 – Are We Ready to Transform <i>Mr. Boo Chin Tuan</i>		
10:30 - 11:00	Coffee		
	<i>Orchid Room 4202 (A)</i>		<i>Orchid Room 4203</i>
	<i>Session Chair: Siraj H. M.</i>		
	S.Th.A.1		
11:00 - 11:20	Total Focusing Method on Defect Inspection in Multi-layer Additively Manufactured Materials: Simulation and Experiment		
	Sean Ang (8027) S.Th.A.2		
11:20 - 11:40	Heat Exchanger and Boiler Tube Inspection Using Apris		
	Vignesh Sivanadam (8005) S.Th.A.3		
11:40 - 12:00	Evaluation of X-Ray Computed Tomography (CT) Images of Additively Manufactured Components using Deep Learning		APFNDD Board Meeting
	Bisma Mutiargo (8029) S.Th.A.4		
12:00 - 12:20	Structure Monitoring: Technical Solutions and Application Examples		
	Michael Hauserer (8035) S.Th.A.5		
12:20 - 12:40	Fourier analysis to understand temperature distribution patterns in adhesively bonded textile structures		
	Ruwandi Fernando (8040)		
12:40 - 14:00	Lunch		
	<i>Orchid Room 4202</i>	<i>Orchid Room 4302</i>	<i>Orchid Room 4203</i>
	<i>Session Chair: P. Pugalendhi</i>		<i>Dr. S.K. Babu</i>
	S.Th.A.6		
14:00 - 14:20	Combination of Infrared Thermography and Computed Radiography Nondestructive Methods Detect Oil and Gas Storage Tank Drainage Pipe Blockage		
	Chandramohan Balakrishnan (8006) S.Th.A.7		
14:20 - 14:40	Reliability for Detection of Small Surface Defects Using Induction Thermography		
	ZJ Liu (8031) S.Th.A.8		
14:40 - 15:00	Analysis of Cloud Testing Techniques and Challenges in Cloud Computing Environments	Certification Workshop	APFNDD Workshop
	Jigneshkumar Patel (8046) S.Th.A.9		
15:00 - 15:20	A Feature Extraction Technique Based on Factor Analysis for Pulsed Eddy Current Defects Categorization		
	Nurul A'In Ahmad Latif (8022) S.Th.A.10		
15:20 - 15:40	Advanced Ultrasonic Inspection of delayed cracking in Tank Nozzle welds		
	Dheeraj P R & Darren Lee (8010)		
15:40 - 16:00	Coffee		
16:00 - 17:00	Collection of certificates		