

PROGRAMME DAY-BY-DAY

3-7 JULY TIME	DAY 1 MONDAY, 3 JULY 2023	DAY 2 TUESDAY, 4 JULY 2023	DAY 3 WEDNESDAY, 5 JULY 2023	DAY 4 THURSDAY, 6 JULY 2023	DAY 5 FRIDAY, 7 JULY 2023	
FULL DAY	<p><b>OPENING CEREMONY</b></p>	<p>S1 - Additive Manufacturing S4 - NDT of Composites S7 - Ultrasound (EMAT, Laser Ultrasonics, Air coupled, nonlinear) S13 - Numerical Simulation, Modeling and Data Processing S16 - NDE &amp; NDT of Civil Infrastructure, Structural Engineering and Materials</p>	<p>S2 - NDT Industry 4.0 S9 - Guided Waves S13 - Numerical Simulation, Modeling and Data Processing S15 - Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis) S18 - Oil &amp; Gas S25 - ACADEMIA INTERNATIONAL RESEARCH DAY</p>	<p>S2 - NDT Industry 4.0 S3 - Robotics and Automation S5 - Materials Characterization S8 - Ultrasound Phased Arrays S9 - Guided Waves S14 - Transportation (Railway, Automotive, Marin, Aerospace) S17 - Energy Generation (Fossil, Nuclear and Regenerative Power Generation) S22 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)</p>	<p>S5 - Materials Characterization S8 - Ultrasound Phased Array S23 - NDT Reliability and Statistic</p>	
		COFFEE-BREAK				
		<p>S1 - Additive Manufacturing S2 - NDT Industry 4.0 S4 - NDT of Composites S7 - Ultrasound (EMAT, Laser Ultrasonics, Air coupled, nonlinear) S13 - Numerical Simulation, Modeling and Data Processing S16 - NDE &amp; NDT of Civil Infrastructure, Structural Engineering and Materials</p>	<p>S2 - NDT Industry 4.0 S9 - Guided Waves S13 - Numerical Simulation, Modeling and Data Processing S15 - Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis) S18 - Oil &amp; Gas S25 - Academia International Research Day (AIRD)</p>	<p>S3 - Robotics and Automation S5 - Materials Characterization S8 - Ultrasound Phased Arrays S18 - Oil &amp; Gas S22 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)</p>	<p>S8 - Ultrasound Phased Array S23 - NDT Reliability and Statistic</p>	<p><b>CLOSING CEREMONY</b></p>
	LUNCH					
	<p>S1 - Additive Manufacturing S4 - NDT of Composites S7 - Ultrasound (EMAT, Laser Ultrasonics, Air coupled, nonlinear) S12 - Surface Methods (MPI &amp; PT) S16 - NDE &amp; NDT of Civil Infrastructure, Structural Engineering and Materials S20 - Green &amp; Echo Technology</p>	<p>S2 - NDT Industry 4.0 S4 - NDT of Composites S7 - Ultrasound (EMAT, Laser Ultrasonics, Air coupled, nonlinear) S9 - Guided Waves S13 - Numerical Simulation, Modeling and Data Processing S15 - Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis) S16 - NDE &amp; NDT of Civil Infrastructure, Structural Engineering and Materials S19 - Biomedical Technology</p>	<p>S2 - NDT Industry 4.0 S9 - Guided Waves S11 - Art &amp; Cultural Heritage S14 - Transportation (Railway, Automotive, Marin, Aerospace) S15 - Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis) S25 - ACADEMIA INTERNATIONAL RESEARCH DAY</p>	<p>S3 - Robotics and Automation S5 - Materials Characterization S8 - Ultrasound Phased Arrays S22 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)</p>		
COFFEE-BREAK						
	<p>S1 - Additive Manufacturing S4 - NDT of Composites S7 - Ultrasound (EMAT, Laser Ultrasonics, Air coupled, nonlinear) S16 - NDE &amp; NDT of Civil Infrastructure, Structural Engineering and Materials S20 - Green &amp; Echo Technology</p> <p><b>WELCOME RECEPTION</b></p>	<p>S2 - NDT Industry 4.0 S4 - NDT of Composites S6 - Microwave, Terahertz, and Infrared S9 - Guided Waves S13 - Numerical Simulation, Modeling and Data Processing S15 - Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)</p>	<p>S2 - NDT Industry 4.0 S7 - Ultrasound (EMAT, Laser Ultrasonics, Air coupled, nonlinear) S9 - Guided Waves S14 - Transportation (Railway, Automotive, Marin, Aerospace)</p> <p><b>GALA DINNER</b></p>	<p>S5 - Materials Characterization S8 - Ultrasound Phased Arrays S9 - Guided Waves S22 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination) S23 - NDT Reliability and Statistic S24 - Qualification, certification, standards and training</p>		

DAY 1 - MONDAY, 3 JULY 2023

03-Jul-23 TIME	SESSION AUDITORIUM I	AUDITORIUM II	AUDITORIUM III	AUDITORIUM VI	AUDITORIUM VIII	ROOM 1.08
09:00 - 12:30	<p><b>OPENING CEREMONY</b></p> <p><u>Bento Alves</u> President, ECNDT 2023</p> <p><u>Fermín Gómez Fraile</u> President, EFNDT</p> <p><u>Sajeesh K. Babu</u> Chairman, ICNDT</p>	x	x	x	x	x

	<p><u>Hanane Taidi</u> Director General, TIC Council</p> <p><u>Dr. Johannes Vrana</u> CEO, Vrana GmbH</p> <p><u>Mohamed Elkarmoty</u> Faculty of Engineering Assistant Professor / ScanPyramids Deputy Coordinator, Cairo University</p> <p><u>Telmo G. Santos</u> Full Professor, NOVA School of Science and Technology</p> <p><b>EFNDT Awards</b></p>					
<b>12:30 - 14:10</b>	<b>LUNCH</b>					
<b>14:10 - 14:30</b>	<p><b>S1 - Additive Manufacturing</b> OC103 - Defect Detection in Additively Manufactured Parts by Laser Ultrasound Tomography</p> <p><u>Bernhard Reitingner</u></p>	<p><b>S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)</b> OC421 - Multi-functional ultrasound phased array imaging</p> <p><u>Choon-su Park</u></p>	<p><b>S12 - Surface Methods (MPI &amp; PT)</b> OC32 - Bio Water Based Liquid Penetrants and Magnetics: a safer and cost-efficient solution for the future</p> <p><u>Michele Cevenini</u></p>	<p><b>S16 - NDE &amp; NDT of Civil Infrastructure, Structural Engineering and Materials</b> OC47 - Modelling Crystallographic Texture Evaluation and Non-Destructive Measurement of Magnetic Anisotropy using an Electromagnetic Sensor in Interstitial Free (If) Steels</p> <p><u>Mohsen Aghadavoudi Jolfaei</u></p>	<p><b>S4 - NDT of Composites</b> OC137 - Ultrasonic Inspection for aging monitoring of GFRP composites</p> <p><u>Marcella Grosso</u></p>	#N/D
<b>14:30 - 14:50</b>	<p><b>S1 - Additive Manufacturing</b> OC93 - Inspection of Additive manufacturing parts, study of NDT solutions for WAAM</p> <p><u>Fabien Lefevre</u></p>	<p><b>S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)</b> OC130 - Phased array probes for air-coupled ultrasonic testing based on cellular polymer</p> <p><u>Mate Gaal</u></p>	<p><b>S20 - Green &amp; Echo Technology</b> OC 31 - Work safety in magnetic particle and penetrant testing</p> <p><u>Kersten Alward</u></p>	<p><b>S16 - NDE &amp; NDT of Civil Infrastructure, Structural Engineering and Materials</b> OC61 - Active Infrared Thermography applied for concrete structures inspection in Nuclear Power Plants</p> <p><u>Javier De La Morena</u></p>	<p><b>S4 - NDT of Composites</b> OC18 - MEMS - sensor array for non-contact ultrasonic composite panel inspection</p> <p><u>Arno Volker</u></p>	#N/D
<b>14:50 - 15:10</b>	<p><b>S1 - Additive Manufacturing</b> OC212 - Online eddy current testing of PBF-LB/M parts using GMR sensor arrays during manufacturing</p> <p><u>Matthias Pelkner</u></p>	<p><b>S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)</b> OC107 - Thermoacoustic phased-array radiators – Theory, characteristics, and applications</p> <p><u>Daniel Hufschläger</u></p>	<p><b>S12 - Surface Methods (MPI &amp; PT)</b> OC57 - UV-A LED's in fluorescent penetrant testing and magnetic particle testing</p> <p><u>Jesko Klippstein</u></p>	<p><b>S16 - NDE &amp; NDT of Civil Infrastructure, Structural Engineering and Materials</b> OC319 - Advanced Eddy Current Testing of Carbon Composites</p> <p><u>Marie Rudolfova</u></p>	<p><b>S4 - NDT of Composites</b> OC232 - Air-coupled Ultrasonic Inspection of Thermoplastic Composite Structures for Aerospace Vehicles</p> <p><u>Armin Huber</u></p>	#N/D
<b>15:10 - 15:30</b>	<p><b>S1 - Additive Manufacturing</b> OC76 - Multi-physics data registration for the improvement of Additive Manufacturing process control</p> <p><u>Jitendra Singh Rathore</u></p>	<p><b>S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)</b> OC182 - Phased-Array Approach to Air-coupled Ultrasound with Resonant Defect Excitation</p> <p><u>Timo Reindl</u></p>	<p><b>S12 - Surface Methods (MPI &amp; PT)</b> OC89 - Development of an Automatic magnetic particle flaw detector System Using Deep Learning</p> <p><u>Daisuke Nagata</u></p>	<p><b>S16 - NDE &amp; NDT of Civil Infrastructure, Structural Engineering and Materials</b> OC445 - Validation through field data of LineCore, a lightweight Eddy-current sensor for the early detection of corrosion of ACSRs</p> <p><u>Nicolas Pouliot</u></p>	<p><b>S4 - NDT of Composites</b> OC246 - Ad-hoc solutions for ultrasonic inspection of highly complex aircraft composite structures</p> <p><u>Sergio González</u></p>	#N/D
<b>15:30 - 15:50</b>	<p><b>S1 - Additive Manufacturing</b> OC16 - INDUSTRIAL APPLICATION OF HIGH ENERGY CT</p> <p><u>Eberhard Neuser</u></p>	<p><b>S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)</b> OC153 - Non-Destructive Testing of Battery Pouches with Imaging Ultrasonic Techniques</p> <p><u>Artur Szewieczek</u></p>	<p><b>S12 - Surface Methods (MPI &amp; PT)</b> OC358 - UV _ Irradiation in NDT: Quo vadis</p> <p><u>Thomas Schrott</u></p>	<p><b>S16 - NDE &amp; NDT of Civil Infrastructure, Structural Engineering and Materials</b> OC452 - Study on the nuclear method used in earthworks quality control of civil infrastructures</p> <p><u>José Neves</u></p>	<p><b>S4 - NDT of Composites</b> OC285 - Imaging of 3D Fiber Architecture in Composites using Ultrasound Computed Tomography</p> <p><u>Mathias Kersemans</u></p>	#N/D
<b>15:50 - 16:10</b>	<p><b>S1 - Additive Manufacturing</b> OC271 - ADVANCED X-RAY COMPUTED TOMOGRAPHY IN ADDITIVE MANUFACTURING</p> <p><u>Gerhard Zacher</u></p>	<p><b>S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)</b> OC70 - Estimating manufacturing parameters of additively manufactured 316L steel cubes using ultrasound fingerprinting</p> <p><u>Shafaq Zia</u></p>	#N/D	<p><b>S16 - NDE &amp; NDT of Civil Infrastructure, Structural Engineering and Materials</b> OC318 - Linear and Non-Linear Resonant Ultrasonic Testing for the Early Detection of Alkali-Silica Reaction in Concrete</p> <p><u>Klayne Silva</u></p>	<p><b>S4 - NDT of Composites</b> OC406 - UT data analysis steps for development of automated detection technique of bonding defects in multi-layered structures</p> <p><u>Damira Smagulova</u></p>	#N/D
<b>16:10 - 16:40</b>	<b>COFFEE-BREAK</b>					
<b>16:40 - 17:00</b>	<p><b>S1 - Additive Manufacturing</b> OC228 - Non-contact assessment of porosity in metal 3D printed parts by vibration spectra</p> <p><u>Alexey Tatarinov</u></p>	<p><b>S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)</b> OC211 - Ultrasonic C-scan imaging of damage in the quefreny domain</p> <p><u>Mathias Kersemans</u></p>	#N/D	<p><b>S16 - NDE &amp; NDT of Civil Infrastructure, Structural Engineering and Materials</b> OC444 - Ultrasonic Phased Array application for the detection of discrepancy on laser welding</p> <p><u>Giuseppe Silipigni</u></p>	<p><b>S4 - NDT of Composites</b> OC113 - Ultrasonic representation of photothermal signals to localize and identify foreign object debris in composite materials</p> <p><u>Guenther Mayr</u></p>	#N/D

17:00 - 17:20	<b>S1 - Additive Manufacturing</b> OC273 - NDT for additive manufacturing space hardware qualification  <u>Carlos Galleguillos</u>	<b>S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)</b> OC375 - Automated echo separation in scanning acoustic microscopy for testing multi-layered electronic devices  <u>Emanuel Leipner</u>	#N/D	<b>S16 - NDE &amp; NDT of Civil Infrastructure, Structural Engineering and Materials</b> OC447 - Ultrasonic Pulse-Echo inspection of backfill grout in segmental tunnel linings  <u>Roberto Felicetti</u>	<b>S4 - NDT of Composites</b> OC236 - Advances in the implementation of a UT contactless inspection system in the manufacturing process of thermoplastic components for aeronautical use, within the framework of the H2020-DOMMINIO project.  <u>Roberto Giacchetta</u>	#N/D
17:20	<b>WELCOME RECEPTION</b>					

**DAY 2 - TUESDAY, 4 JULY 2023**

04-Jul-23 TIME	SESSION AUDITORIUM II	AUDITORIUM III	AUDITORIUM VI	AUDITORIUM VIII	ROOM 1.08
09:00 - 09:20	<b>S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)</b> OC428 - Online quality monitoring in the production of organo sheets by air-coupled ultrasonic testing  <u>Ralf Steinhausen</u>	<b>S4 - NDT of Composites</b> OC150 - CREATION AND NON-DESTRUCTIVE CONTROL OF ELECTRIC HEATING ELEMENTS OF THE AIRCRAFT ICING PREVENTION SYSTEM  <u>Mykhail Kazakevych</u>	<b>S16 - NDE &amp; NDT of Civil Infrastructure, Structural Engineering and Materials</b> OC78 - Time reversal method applied to leaky Lamb waves in an immersed layered medium  <u>Jean-Christophe Vallée</u>	<b>S1 - Additive Manufacturing</b> OC310 - Near Field Microwave Probe for Metal Additive Manufacturing Imaging  <u>Luis Rosado</u>	<b>S13 - Numerical Simulation, Modeling and Data Processing</b> OC412 - Numeric Prediction of the Detail Visibility in Industrial X-Ray Computed Tomography by Human Observers  <u>Uwe Ewert</u>
09:20 - 09:40	<b>S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)</b> OC256 - Directivity of laser generated ultrasonic waves in thermoelastic regime  <u>Xin Tu</u>	<b>S4 - NDT of Composites</b> OC196 - Acoustic material testing a progressive testing method.  <u>Jörg Ritter</u>	<b>S16 - NDE &amp; NDT of Civil Infrastructure, Structural Engineering and Materials</b> OC176 - Multi-dimensional data fusion study for ultrasonic and radiographic non-destructive inspections  <u>Elena Jasiuniene</u>	<b>S1 - Additive Manufacturing</b> OC205 - Automated Multi-Modal In-Process Non-Destructive Evaluation of Wire + Arc Additive Manufacturing  <u>Ehsan Mohseni</u>	<b>S13 - Numerical Simulation, Modeling and Data Processing</b> OC252 - Industrial Radiography simulation with a Monte-Carlo model including full physics  <u>Andreas Schumm</u>
09:40 - 10:00	<b>S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)</b> OC81 - Automated laser ultrasound for weld seams  <u>Norbert Huber</u>	<b>S4 - NDT of Composites</b> OC91 - Investigation of Kissing Bonds in Adhesive Joints  <u>Mike Kornely</u>	<b>S16 - NDE &amp; NDT of Civil Infrastructure, Structural Engineering and Materials</b> OC178 - Inductive arrays for inspection of curved structures  <u>Alexis Hernandez</u>	<b>S1 - Additive Manufacturing</b> OC324 - Inline inspection of metal parts produced by Wire and Arc Additive Manufacturing (WAAM)  <u>Telmo G. Santos</u>	<b>S13 - Numerical Simulation, Modeling and Data Processing</b> OC301 - Realistic Simulation of CT Systems - An Introduction to The CTSimU2 Project  <u>Carsten Bellon</u>
10:00 - 10:20	<b>S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)</b> OC67 - Noncontact measurement of bolt axial force during tightening processes using scattered laser ultrasonic waves  <u>So Kitazawa</u>	<b>S4 - NDT of Composites</b> OC382 - A new Defects Detection Method in CFRP with non-contact Lamb Waves Propagation and Wavelet Transform Analysis  <u>Lea Lecointre</u>	<b>S16 - NDE &amp; NDT of Civil Infrastructure, Structural Engineering and Materials</b> OC257 - Defect detection and sizing in components of the energy sector based on phase velocity variation of ultrasonic guided waves  <u>Renaldas Raisutis</u>	<b>S1 - Additive Manufacturing</b> OC337 - Flaw Detection in Wire and Arc Additive Manufacturing Using In-Situ Wide Frequency Bandwidth Acoustic Pressure  <u>André Ramalho</u>	<b>S13 - Numerical Simulation, Modeling and Data Processing</b> OC118 - Anomalies detector on industrial radiographies: application on High Pressure Turbine Blades  <u>Clément Remacha</u>
10:20 - 10:40	<b>S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)</b> OC42 - Combination of laser ultrasonics and thermography for enhanced defect characterization in CFRP parts  <u>Bernhard Reitingner</u>	<b>S4 - NDT of Composites</b> OC240 - Nonlinear Guided Wave Damage Imaging in Composite Structures Using A Sparse Sensor Network  <u>Yusheng Ma</u>	<b>S16 - NDE &amp; NDT of Civil Infrastructure, Structural Engineering and Materials</b> OC258 - Effect of Object Thickness on Resolution of TDI X-ray Detectors  <u>Anthony Dimalanta</u>	<b>S1 - Additive Manufacturing</b> OC441 - Tomosynthesis for large additive manufacturing parts  <u>Anne-Françoise Obaton</u>	<b>S13 - Numerical Simulation, Modeling and Data Processing</b> OC254 - Improvement of radiographic images quality using algorithms dedicated to geometric blur reduction  <u>Nezha Mamouni</u>
10:40 - 11:10	<b>COFFEE-BREAK</b>				
11:10 - 11:30	<b>S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)</b> OC55 - Assessment of metallurgical properties on moving steel strips at high temperature with laser ultrasonics  <u>Guillaume Cousin</u>	<b>S4 - NDT of Composites</b> OC223 - 3D-characterization of carbon fibre reinforced polymers by Talbot-Lau grating interferometry radioscopy and computed tomography  <u>Johann Kastner</u>	<b>S16 - NDE &amp; NDT of Civil Infrastructure, Structural Engineering and Materials</b> OC297 - PAUT and ToFD performance demonstration on HDPE joints  <u>Ludovic Pinier</u>	<b>S1 - Additive Manufacturing</b> OC106 - Investigation of the Melting Process in the Hot End of a Fused Filament Fabrication 3D Printer by Means of X-Ray Computed Tomography  <u>Julian Ehrler</u>	<b>S13 - Numerical Simulation, Modeling and Data Processing</b> OC407 - Simulation of Eddy Current Rail Testing Data for Neural Networks  <u>Alexander Friedrich</u>
11:30 - 11:50	<b>S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)</b> OC185 - Experimental analysis of planar/volumetric defects in ultrasonics NDT: Standardization of evaluation metrics using symbiosis of TOFD and TR-NEWS methods  <u>Serge Dos Santos</u>	<b>S4 - NDT of Composites</b> OC401 - Inspection benchmarking of Fibre Reinforced Polymeric Composites produced by Additive Manufacturing  <u>Miguel A. Machado</u>	<b>S16 - NDE &amp; NDT of Civil Infrastructure, Structural Engineering and Materials</b> OC383 - Material Characterisation of Polyamide using Fluidic Oscillator as a Frequency Modulated Air-Coupled Ultrasonic Transducer  <u>Viswa Ratnasri Sunkavalli</u>	<b>S1 - Additive Manufacturing</b> OC166 - In-process Non-Destructive Evaluation of Wire + Arc Additive Manufacture Components Using Ultrasound High-Temperature Dry-Coupled Roller-Probe  <u>Rastislav Zimmermann</u>	<b>S13 - Numerical Simulation, Modeling and Data Processing</b> OC34 - Formulation of a Mechanical Stress Dependent Macroscopic Magnetic Model for Incremental Permeability Simulation  <u>Patrick Lombard</u>

11:50 - 12:10	<b>S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)</b> OC344 - Robot-ready spot- and seam weld testing based on laser excitation and air-coupled detection of ultrasound  <u>Josef Pörnbacher</u>	<b>S4 - NDT of Composites</b> OC54 - Multi-domain contactless NDI approach: Data fusion of structural light scanning with thermography and shearography  <u>Patrick Jansen</u>	<b>S16 - NDE &amp; NDT of Civil Infrastructure, Structural Engineering and Materials</b> OC384 - Thermal stress opening of closed cracks with local cooling on the cracked surface  <u>Arthur Perrin</u>	<b>S2 - NDT Industry 4.0</b> OC83 - Monitoring Barkhausen noise measurements to detect and reduce grinding burn and case depth defects in manufactured parts  <u>Kizkitza Gurruchaga</u>	<b>S13 - Numerical Simulation, Modeling and Data Processing</b> OC368 - A Physics-informed Neural Network for Pulsed Thermography-Based Defect Detection and Parameter Estimation  <u>Yuan Yao</u>
12:10 - 12:30	<b>S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)</b> OC45 - Tensile properties estimation of aluminum alloys using deep learning-based ultrasonic testing  <u>Kyung-young Jhang</u>	<b>S4 - NDT of Composites</b> OC284 - Automated woven background removal for enhanced infrared thermographic inspection of composites  <u>Gaétan Poelman</u>	<b>S16 - NDE &amp; NDT of Civil Infrastructure, Structural Engineering and Materials</b> OC389 - The importance of material guiding in the reliability of rotary UT testing of tubes - a practical approach to characterize testing equipment  <u>Klaus Dickmann</u>	<b>S2 - NDT Industry 4.0</b> OC146 - A Machine Learning Based-Guided Wave Approach for Damage Detection and Assessment in Composite Overwrapped Pressure Vessels  <u>Amir Charmi</u>	<b>S13 - Numerical Simulation, Modeling and Data Processing</b> OC204 - Spatial resolution in photothermal and photoacoustic imaging  <u>Peter Burgholzer</u>
12:30 - 12:50	<b>S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)</b> OC380 - A study on the nonlinear correlation between viscoelasticity and guided ultrasound  <u>Younho Cho</u>	<b>S4 - NDT of Composites</b> OC27 - Porosity in Carbon Fiber laminate part. Porosity coupons for the evaluation of the percentage voids volume.  <u>Valter Capitani</u>	<b>S16 - NDE &amp; NDT of Civil Infrastructure, Structural Engineering and Materials</b> OC409 - Modern corrosion mapping of storage tank bottoms – notable advancements in critical zone coverage, inspection efficiency and data integrity.  <u>Andrew Simpson</u>	<b>S2 - NDT Industry 4.0</b> OC190 - Laser ultrasonics for online monitoring of microstructures in the hot strip mill  <u>Mikael Malmström</u>	<b>S13 - Numerical Simulation, Modeling and Data Processing</b> OC265 - A WebGPU-based acoustic wave simulator for ultrasound NDT  <u>Thiago A. R. Passarin</u>
12:50 - 14:10	<b>LUNCH</b>				
14:10 - 14:30	<b>S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)</b> OC346 - Self-calibrating SAFT algorithm for the inspection of electronic devices using scanning acoustic microscopy  <u>Mario Wolf</u>	<b>S4 - NDT of Composites</b> OC56 - Computed tomography investigations of 3D aluminum - GMT hybrid profiles manufactured by compression molding  <u>Manel Ellouz</u>	<b>S16 - NDE &amp; NDT of Civil Infrastructure, Structural Engineering and Materials</b> OC414 - Quantitative analysis of delaminations by means of lock-in infrared thermography  <u>Javier Rodriguez-Aseguinolaza</u>	<b>S2 - NDT Industry 4.0</b> OC195 - Using DICONDE for NDT Data Fusion  <u>Geo Jacob</u>	<b>S13 - Numerical Simulation, Modeling and Data Processing</b> OC263 - Using Perfectly Matched Layer in a GPU simulation of ultrasound NDT  <u>Thiago A. R. Passarin</u>
14:30 - 14:50	<b>S19 - Biomedical Technology</b> OC85 - Modelling of an ultrasound-based system for cataract detection and classification  <u>Mário Santos</u>	<b>S4 - NDT of Composites</b> OC243 - Defect-aware Super-resolution Thermography by Adversarial Learning  <u>Cheng Liangliang</u>	<b>S16 - NDE &amp; NDT of Civil Infrastructure, Structural Engineering and Materials</b> OC88 - Mimicking dam upstream slope scenarios in acrylic tanks for ultrasonic evaluation  <u>Tiago Dourado</u>	<b>S2 - NDT Industry 4.0</b> OC92 - Reduction of rejects by combining data from the casting process and automatic X-ray inspection  <u>Thomas Stocker</u>	<b>S13 - Numerical Simulation, Modeling and Data Processing</b> OC293 - Determining ultrasonic propagation effective properties in complex heterogeneous media through microstructure-scale simulation  <u>Vincent Dorval</u>
14:50 - 15:10	<b>S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)</b> OC352 - Visualization of wave modes generated by electromagnetic acoustic transducers with the photoelastic imager  <u>Michael Kaack</u>	<b>S4 - NDT of Composites</b> OC309 - RoboCT - Robot based Micro-CT of full size Composite Aerostructures  <u>Wolfgang Holub</u>	<b>S16 - NDE &amp; NDT of Civil Infrastructure, Structural Engineering and Materials</b> OC201 - Metrological characterization of the longitudinal ultrasonic velocity of cylindrical rock cores  <u>Tiago Dourado</u>	<b>S2 - NDT Industry 4.0</b> OC6 - In-situ microstructure monitoring during tempering of quenched AISI4340 steels using a high temperature electromagnetic sensor  <u>Fanfu Wu</u>	<b>S13 - Numerical Simulation, Modeling and Data Processing</b> OC26 - Simulation of wave propagation in austenitic stainless steel welds with solidification structure predicted by Cellular Automaton method  <u>Shan Lin</u>
15:10 - 15:30	<b>S9 - Guided Waves</b> OC342 - A study on the wave propagation on weld joints by the use of feature-guided wave mixing  <u>Jaesun Lee</u>	<b>S4 - NDT of Composites</b> OC361 - X-ray Computed Tomography Inspection of Novel Ceramic Matrix Composites  <u>Nick Brierley</u>	<b>S15 - Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)</b> OC241 - Self-sensing metallic material based on piezoelectric particles  <u>Pedro Ferreira</u>	<b>S2 - NDT Industry 4.0</b> OC1 - On the use of inline phase transformation sensors in a hot strip mill: a case study  <u>Haibing Yang</u>	<b>S13 - Numerical Simulation, Modeling and Data Processing</b> OC8 - 3D HYBRID MODELING FOR THE ULTRASONIC PHASED ARRAY INSPECTION OF POROSITY IN HEAVY PLATES: SIMULATION AND EXPERIMENTAL VALIDATION  <u>Sanjeevareddy Kokoori</u>
15:30 - 15:50	<b>S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)</b> OC437 - IN-SERVICE OIL REFINERIES STORAGE TANK INSPECTION WITH GUIDED WAVES.  <u>Levente Bazsanyi</u>	<b>S4 - NDT of Composites</b> OC39 - NDT & METROLOGY – Improving Efficiency in Aerospace Manufacturing utilizing the Multi-Modality Approach  <u>Thomas Gramberger</u>	<b>S15 - Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)</b> OC12 - Working Smart Using Wireless UT Sensors for Asset Integrity Monitoring  <u>Steve Strachan</u>	<b>S2 - NDT Industry 4.0</b> OC19 - HIGH TEMPERATURE CHARACTERISATION OF THE STIFFNESS MATRIX OF DIFFERENT STEELS  <u>Arno Volker</u>	<b>S9 - Guided Waves</b> OC234 - Excitation and reception of higher order guided Lamb waves in sheet type composite structures using phased air-coupled ultrasonic arrays  <u>Justina Sestoke</u>

15:50 - 16:10	<b>S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)</b> OC253 - Detection of barely visible impact damage in composite plates using non-linear pump-probe technique  <u>Guillemette Ribay</u>	<b>S4 - NDT of Composites</b> OC288 - Developing in-line inductive probes for carbon fibre composite manufacturing  <u>Robert Hughes</u>	#N/D	#N/D	<b>S13 - Numerical Simulation, Modeling and Data Processing</b> OC225 - Comparison of grain structure models for wave propagation analysis in centrifugally cast stainless steel  <u>Masaki Nagai</u>
16:10 - 16:40	<b>COFFEE-BREAK</b>				
16:40 - 17:00	<b>S9 - Guided Waves</b> OC371 - Deep learning algorithms for design of periodic structures and dispersion curves calculation  <u>Kseniia Barashok</u>	<b>S6 - Microwave, Terahertz, and Infrared</b> OC73 - Non-destructive testing of fiber-reinforced composites by terahertz method  <u>Waldemar Swiderski</u>	<b>S15 - Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)</b> OC123 - Identification of overloads on splined shafts by means of eddy current testing technology  <u>René Gansel</u>	<b>S2 - NDT Industry 4.0</b> OC111 - Automated Spot Weld Testing using a Smart Robotic System  <u>York Oberdoerfer</u>	<b>S13 - Numerical Simulation, Modeling and Data Processing</b> OC298 - AI-based and model assisted diagnostic for ultrasonic TFM weld inspection  <u>Stéphane Le Berre</u>
17:00 - 17:20	<b>S9 - Guided Waves</b> OC214 - Guided Wave-based Structural Health Monitoring for a Composite Aircraft Fuselage under Mechanical Load  <u>Maria Moix-Bonet</u>	<b>S6 - Microwave, Terahertz, and Infrared</b> OC108 - Improvement of 3D-Active Thermography by using Artificial Intelligence  <u>Marc Kreutzbruck</u>	<b>S15 - Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)</b> OC66 - A low-cost ultrasonic array for long-term and high-resolution localised monitoring  <u>Xiaoyu Sun</u>	<b>S2 - NDT Industry 4.0</b> OC215 - Easy to go and innovative validation process using the spot weld inspection system PHAsis and related software  <u>Philipp Poltersdorf</u>	<b>S13 - Numerical Simulation, Modeling and Data Processing</b> OC338 - Automated honeycomb detection during Impact Echo inspections using AI trained by simulation data  <u>Fabian Dethof</u>
17:20 - 17:40	<b>S9 - Guided Waves</b> OC306 - Passive guided wave tomography for monitoring corrosion in pipes  <u>Arnaud Recoquillay</u>	<b>S6 - Microwave, Terahertz, and Infrared</b> OC207 - Combing radar and ultrasound imaging for surface echo compensation and augmented visibility of interior structures in NDT applications  <u>Ingrid Ullmann</u>	<b>S15 - Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)</b> OC101 - Experimental evidence of spin electron magnetic moment vibration activated with the magnetic field and monitored by acoustic emission  <u>Giuseppe Nardoni</u>	<b>S2 - NDT Industry 4.0</b> OC348 - FebUS - Development and application of the latest technologies in the UT-NDT field  <u>Damiano Sallemi</u>	<b>S13 - Numerical Simulation, Modeling and Data Processing</b> OC450 - THICKNESS MEASUREMENT FOR METALLIC LAMINATES: AN ACCURATE METHOD FOR INDUSTRIAL APPLICATIONS  <u>Antonello Tamburrino</u>
17:40 - 18:00	<b>S9 - Guided Waves</b> OC328 - 24/7 Large Area Corrosion Monitoring  <u>Thomas Voght</u>	<b>S6 - Microwave, Terahertz, and Infrared</b> OC41 - Some practical NDE and QC Applications of Time Domain Terahertz Technology  <u>Joe Buckley</u>	<b>S15 - Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)</b> OC126 - Infrared Thermography testing during the welding process  <u>Sébastien Saint Yves</u>	<b>S2 - NDT Industry 4.0</b> OC370 - Knowledge sharing as a central idea of NDT 4.0  <u>Tamara Diederichs</u>	<b>S13 - Numerical Simulation, Modeling and Data Processing</b> OC97 - Custom Transient Finite Element Method and Ray Tracing Hybridization Strategies for Ultrasonic Testing Modelling  <u>Edouard Demaldent</u>
18:00 - 18:20	<b>S9 - Guided Waves</b> OC327 - Detection and Measurement of Pitting Corrosion using Short Range Guided Wave Scanning  <u>Sam Horne</u>	<b>S6 - Microwave, Terahertz, and Infrared</b> OC25 - Field Applications for Multi-Frequency Microwave Imaging  <u>Terry Haigler</u>	<b>S15 - Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)</b> OC147 - Quantitative visual vibrometry for defect detection.  <u>Lucy Dougill</u>	<b>S2 - NDT Industry 4.0</b> OC188 - NDE 4.0 Roadmap for Ultrasonic Nonlinear Imaging within Industry 4.0: the importance of prescriptive Signal, Image and Data Analysis  <u>Serge Dos Santos</u>	<b>S4 - NDT of Composites</b> OC377 - Modelling low-frequency vibration response and defect detection in homogeneous solids and honeycomb composite panels  <u>Joshua Aigbotsua</u>

**DAY 3 - WEDNESDAY, 5 JULY 2023**

05-Jul-23 TIME	SESSION AUDITORIUM II	AUDITORIUM III	AUDITORIUM VI	AUDITORIUM VIII	ROOM 1.08
09:00 - 09:20	<b>S13 - Numerical Simulation, Modeling and Data Processing</b> OC157 - A generic numerical solver for modeling the influence of stress conditions on guided wave propagation for SHM applications  <u>André Dalmora</u>	<b>S25 - ACADEMIA INTERNATIONAL RESEARCH DAY</b>  (check detailed programme below - from 09:00 to 17:10)	<b>S15 - Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)</b> OC231 - Vibrational NDT with Under-sampled Data through Physics-informed Neural Networks  <u>Saeid Hedayatrasa</u>	<b>S2 - NDT Industry 4.0</b> OC140 - Platform for ultrasonic data management and evaluation  <u>Iratxe Aizpurua</u>	<b>S18 - Oil &amp; Gas</b> OC62 - Development of HOIS guidance for ultrasonic NDT for non-intrusive inspection at elevated temperatures  <u>Helen Peramatzis</u>
09:20 - 09:40	<b>S9 - Guided Waves</b> OC436 - Lamb Wave Mode Conversion Analysis for Crack Assessment  <u>Artur Ribeiro</u>		<b>S15 - Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)</b> OC247 - Sensitivity study of tuned Lamb wave excitation with an embedded Lead Zirconate Titanate transducer in composite laminates  <u>Nina Kergosien</u>	<b>S2 - NDT Industry 4.0</b> OC171 - Automated adaptive TFM method for gas turbine testing in NDE 4.0  <u>Christian Hassenstein</u>	<b>S18 - Oil &amp; Gas</b> OC110 - Field inspection of steel pipes using automatic UT  <u>Raphaël Michel</u>

09:40 - 10:00	<b>S9 - Guided Waves</b> OC177 - Influence of Environmental and Operational Variation on Reliability Assessment of Guided Wave-based Structure Health Monitoring System on a Pipeline Structure  <u>Ahmed Bayoumi</u>		<b>S15 - Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)</b> OC280 - Damage Monitoring of Buried Pipelines under Harsh Noise Environment using Low Frequency Acoustic Emission Analysis  <u>Sun-Ho Lee</u>	<b>S2 - NDT Industry 4.0</b> OC335 - Transforming Ultrasonic Inspection Data Management through Cloud-Based Solutions  <u>André Lamarre</u>	<b>S18 - Oil &amp; Gas</b> OC124 - Ultrasonic inspection of "shaped pipes"  <u>Fabien Lefevre</u>
10:00 - 10:20	<b>S9 - Guided Waves</b> OC275 - A Realistic 'digital twin' for guided wave SHM of pipelines  <u>Panpan Xu</u>		<b>S15 - Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)</b> OC448 - SHM of wire- breakage in concrete bridges by Acoustic Emission Technique  <u>Horst Trattnig</u>	<b>S2 - NDT Industry 4.0</b> OC35 - Production Integrated CT Inspection Process  <u>Alexander Suppes</u>	<b>S18 - Oil &amp; Gas</b> OC264 - Virtual encoder: a two-dimension visual odometer for NDT  <u>Thiago A. R. Passarin</u>
10:20 - 10:40	<b>S9 - Guided Waves</b> OC334 - Development of a digital twin for generating realistic ultrasonic guided wave signals  <u>Vivek Nerlikar</u>		<b>S15 - Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)</b> OC416 - Automatized Scaling Monitoring in Pipelines with Acoustic Resonance Testing  <u>Isabelle Stüwe</u>	<b>S2 - NDT Industry 4.0</b> OC175 - Magneto-Optic Screening Technology for Integrity Monitoring of Pipelines  <u>Gabriel Dinis</u>	<b>S18 - Oil &amp; Gas</b> OC356 - Detection and Characterisation of Hydrogen-Induced Cracking using ultrasonic NDT inspection techniques  <u>Peter Merck</u>
10:40 - 11:10	<b>COFFEE-BREAK</b>				
11:10 - 11:30	<b>S9 - Guided Waves</b> OC17 - Impact localization in composite structures with guided wave and 1D convolutional neural network  <u>Bo Feng</u>	<b>S25 - ACADEMIA INTERNATIONAL RESEARCH DAY</b>  (check detailed programme below - from 09:00 to 17:10)	<b>S15 - Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)</b> OC226 - Frequency Steerable Acoustic Transducers for Guided Waves-based Structural Health Monitoring  <u>Masoud Mohammadgholiha</u>	<b>S2 - NDT Industry 4.0</b> OC134 - Numerical study of the Line Scan InfraRed Thermography (LST-IR) to optimize the inspection of aircraft structures  <u>Ludovic Gaverina</u>	<b>S18 - Oil &amp; Gas</b> OC255 - Evaluation and Simulation of HTHA Damaged Specimen using UT Advanced Techniques  <u>Bastien Clause</u>
11:30 - 11:50	<b>S9 - Guided Waves</b> OC154 - Guided waves defect interaction coefficients obtained through image-based models  <u>Daniel Lozano</u>		<b>S15 - Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)</b> OC206 - Acoustic non-destructive testing of UAV's propellers during predeparture and post-flight checks  <u>Maria Soria Gomez</u>	<b>S2 - NDT Industry 4.0</b> OC283 - Automatic defect detection in fiber-reinforced polymer matrix composites using thermographic vision data  <u>Nuno Mendes</u>	<b>S18 - Oil &amp; Gas</b> OC369 - Phased Array Ultrasonic Testing for Inspection of LNG Storage Tank  <u>Soonho Won</u>
11:50 - 12:10	<b>S9 - Guided Waves</b> OC159 - On the development of a model-assisted design procedure of guided wave-based SHM systems  <u>Enes Savli</u>		<b>S15 - Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)</b> OC415 - An Acoustic Emission IoT Device for Wind Turbine Rotor Blade Condition Monitoring  <u>Valery Godinez-Azcuaga</u>	<b>S2 - NDT Industry 4.0</b> OC181 - Applications of Deep Learning in NDE  <u>Ryan Scott</u>	<b>S18 - Oil &amp; Gas</b> OC202 - Latest Developments in the Hardspot Inspection of heavy plates  <u>Gerald Schneibel</u>
12:10 - 12:30	<b>S13 - Numerical Simulation, Modeling and Data Processing</b> OC435 - Detection of flaws in austenitic stainless steel plate using eddy current testing  <u>Helena Ramos</u>		<b>S15 - Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)</b> OC174 - NDE & Sensing Solutions for Pipeline Structural Health Monitoring  <u>Bruno Moreira</u>	<b>S2 - NDT Industry 4.0</b> OC396 - Automatic defect recognition on parts after MPI and FPI  <u>Radek Salac</u>	<b>S18 - Oil &amp; Gas</b> OC438 - Low-cost tool for identifying illegal tapping used for fuel theft  <u>Lucas Braga Campos</u>
12:30 - 12:50	<b>S13 - Numerical Simulation, Modeling and Data Processing</b> OC434 - Leveraging Signal Correlation for a Multi-variable Model Assisted PoD of Flaws in Eddy Current NDT  <u>Artur Ribeiro</u>		<b>S15 - Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)</b> OC294 - Guided waves based SHM system for rail monitoring and its environmental impact  <u>Bastien Chapuis</u>	<b>S2 - NDT Industry 4.0</b> OC184 - An analysis of how a software platform can achieve complete digital transformation using Radiographic Testing as an example  <u>Gilles Stevens</u>	<b>S18 - Oil &amp; Gas</b> OC440 - Development of Non-destructive Testing Method for Tube Inspection in Fin-Fan Coolers in Kazakhstan's Oil/Gas, Chemical and Power Industries.  <u>John Hansen</u>
12:50 - 14:10	<b>LUNCH</b>				
14:10 - 14:30	<b>S9 - Guided Waves</b> OC158 - Addressing non-uniqueness for the tomographic reconstruction of wall thickness loss in pipelines.  <u>Emiel Hassefras</u>	<b>S25 - ACADEMIA INTERNATIONAL RESEARCH DAY</b>  (check detailed programme below - from 09:00 to 17:10)	<b>S15 - Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)</b> OC299 - 24/7 monitoring on metallic pressure equipment, storage tanks and infrastructure components with acoustic emission  <u>Gerald Lackner</u>	<b>S2 - NDT Industry 4.0</b> OC303 - Strategy for NDTE education at universities in France  <u>Serge Dos Santos</u>	<b>S11 - Art &amp; Cultural Heritage</b> OC20 - Ten+ Years of Experience in Digitization of Cultural Heritage by Means of Industrial X-ray Computed Tomography: A Summary  <u>Theobald Fuchs</u>

14:30 - 14:50	<b>S9 - Guided Waves</b> OC193 - Numerical Assessment of Guided Wave Tomography in a Pipe Bend Based on Full Waveform Inversion  <u>Carlos Omar Rasgado Moreno</u>		<b>S15 - Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)</b> OC410 - CORROSION BASED DEFECT DETECTION AND CLASIFICATION IN PIPE WALL USING MULTIPLE HIGH ORDER ULTRASONIC GUIDED WAVE MODES  <u>Donatas Cirtautas</u>	<b>S2 - NDT Industry 4.0</b> OC287 - Advanced machine learning for dissimilar metal weld phased array ultrasonic inspection  <u>Tuomas Koskinen</u>	<b>S11 - Art &amp; Cultural Heritage</b> OC87 - Non-Destructive Examination of Metallic Idols and Statues in Religious Institutions - A Case Study  <u>Tejas Ingale</u>
14:50 - 15:10	<b>S9 - Guided Waves</b> OC208 - Enhancement and comparison of tomographic reconstruction images in plate-like structures of aircrafts for SHM application using guided waves  <u>Aadhik Asokkumar</u>		<b>S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)</b> OC 317 - OLED Glass Substrates Inspection using Air-coupled Ultrasonic Testing  <u>Bonggyu Ji</u>	<b>S2 - NDT Industry 4.0</b> OC192 - NDE 4.0 – Digital Transformation of NDE  <u>Lennart Schulenburg</u>	<b>S11 - Art &amp; Cultural Heritage</b> OC429 - Non-Destructive Testing of Artworks from the Artist Cy Twombly  <u>Juliana Berthold</u>
15:10 - 15:30	<b>S9 - Guided Waves</b> OC249 - Damage imaging and wavenumber mapping for inspection of bonded CFRP plates using ultrasonic guided waves  <u>Mohsen Barzegar</u>		<b>S14 - Transportation (Railway, Automotive, Marin, Aerospace)</b> OC28 - Reliable detection of stick welds at resistance spot welding  <u>Christian Mathiszik</u>	<b>S2 - NDT Industry 4.0</b> OC364 - Unified NDT Inspection Software platform to the service of NDE community  <u>Patrick Huot</u>	<b>S11 - Art &amp; Cultural Heritage</b> OC300 - Active thermography to look beneath the surface of a historic German aircraft  <u>Julia Frisch</u>
15:30 - 15:50	<b>S9 - Guided Waves</b> OC286 - Inspection of CFRP Aircraft Components using Guided Wavefield Imaging in Wavenumber-Frequency domain  <u>Mathias Kersemans</u>		<b>S14 -Transportation (Railway, Automotive, Marin, Aerospace)</b> OC292 - Adaptive ultrasonic rail wheel testing system with advanced phased array technology  <u>Thomas Würschig</u>	<b>S2 - NDT Industry 4.0</b> OC394 - Magnetic crawler for welds Visual Testing, based on 3D profilometry and 2D image processing  <u>Marco Induti</u>	<b>S11 - Art &amp; Cultural Heritage</b> OC222 - Virtual reconstruction of some metal artifacts discovered at the Roman auxiliary fort of Cumidava using combined X-ray microtomography and microfluorescence  <u>Ion Tiseanu</u>
15:50 - 16:10	<b>S9 - Guided Waves</b> OC343 - The use of segmented Magneto-strictive tools for Medium Range Ultrasonic Inspection of pipelines  <u>Andrew Simpson</u>		<b>S14 -Transportation (Railway, Automotive, Marin, Aerospace)</b> OC72 - Innovative concept enables higher sensitivities in ultrasonic testing of railroad wheels  <u>Andreas Knam</u>	<b>S2 - NDT Industry 4.0</b> OC 395 - The AutosonicTM, a system for the full automatic inspection of seamless steel and aluminum gas cylinders industry 4.0 ready.  <u>Luca Scaccabarozzi</u>	<b>S11 - Art &amp; Cultural Heritage</b> OC312 - Laminographic Imaging of a Medieval Panel Painting by RoboCT  <u>Wolfgang Holub</u>
16:10 - 16:40	<b>COFFEE-BREAK</b>				
16:40 - 17:00	<b>S9 - Guided Waves</b> OC183 - Modelling guided wave reflection from defects in pipes - an integrated approach  <u>Abdul Mateen Qadri</u>	<b>S25 - ACADEMIA INTERNATIONAL RESEARCH DAY</b> (check detailed programme below - from 09:00 to 17:10)	<b>S14 -Transportation (Railway, Automotive, Marin, Aerospace)</b> OC203 - Advanced 3D-TFM Ultrasonic Spot-Weld Inspection  <u>Tobias Bruch</u>	<b>S2 - NDT Industry 4.0</b> OC431 - Data processing to analyze health state in X-ray modules  <u>Pascal Corbat</u>	#N/D
17:00 - 17:20	<b>S9 - Guided Waves</b> OC235 - Data-Driven Remaining Useful Life Prognostic for Aeronautical Composite Structures based on Guided Waves  <u>Ferda Cansu GÜL</u>		<b>S14 -Transportation (Railway, Automotive, Marin, Aerospace)</b> OC229 - Assessment of residual stresses in railway rails using ultrasonic and Barkhausen noise techniques  <u>Young-In Hwang</u>	<b>S2 - NDT Industry 4.0</b> OC 120 - A path towards digital industry: Airblade grains detection by directional reflectance technique  <u>Clément Remacha</u>	#N/D
17:20 - 17:40	#N/D	#N/D	#N/D	#N/D	#N/D
17:40 - 18:00	x	x	x	x	x
17:40 - 18:00	x	x	x	x	x
19:30	<b>GALA DINNER</b>				

**DAY 3 - WEDNESDAY, 5 JULY 2023 / ACADEMIA INTERNATIONAL RESEARCH DAY (AIRD)**

05-Jul-23	SESSION				
TIME	AUDITORIUM II	AUDITORIUM III	AUDITORIUM VI	AUDITORIUM VIII	ROOM 1.08
09:00	x	S25 - Academia International Research Day (AIRD)  FRONTIERS IN NDT	x	x	x

09:00 - 09:10	x	<b>Opening and Welcome</b>  Peter Trampus President of Academia NDT International, Hungary	x	x	x
09:10 - 09:50	x	<b>NDE and Deep Learning: Fashion Trend or the Future?</b>  Keynote Presentation - Roman Gr. Maev University of Windsor, Canada	x	x	x
09:50 - 10:20	x	<b>The perspective of Academia NDT International</b>  Peter Trampus President of Academia NDT International, Hungary	x	x	x
10:20 - 10:40	x	<b>Experimental evidence of the spin magnetic moment of electron activated by the magnetic field and monitored by acoustic emission</b>  Giuseppe Nardoni, N. Fallahi, P. Nardoni I&T Nardoni Institute, Italy	x	x	x
10:40 - 11:10	<b>COFFEE-BREAK</b>				
11:10	x	<b>INTERNATIONAL FORUM ON NDT EDUCATION AT UNIVERSITIES</b> Joint meeting of Academia NDT International and ICNDT WG 3	x	x	x
11:10 - 11:20	x	<b>Opening and Welcome</b>  Younho Cho President of WCNDT 2020 and Chairman of WG 3 of ICNDT, South Korea	x	x	x
11:20 - 11:50	x	<b>NDT Integrity Engineering – The Feasible Curriculum</b>  Keynote presentation - Peter Trampus 1, Viera Krstelj 2 1 President of Academia NDT International, Hungary 2 President of Croatian Engineering Association, Croatia	x	x	x
11:50 - 12:10	x	<b>Current Status and Challenges of NDE Education at Academic Institutions in the U.S.A.</b>  Reza Zoughi Center for Nondestructive Evaluation (CNDE), IOWA State University, U.S.A.	x	x	x
12:10 - 12:30	x	<b>The UK Research Centre for NDE (RCNDE) – Twenty Years of Delivering Value to Industry</b>  Colin Brett RCNDE, United Kingdom	x	x	x
12:30 - 12:50	x	<b>General Education and Training of NDT Personnel, including NDT Education at Universities in South Africa</b>  Manfred Johannes Immediate Past President of SAINT, South Africa	x	x	x
12:50 - 14:10	<b>LUNCH</b>				



14:10 - 14:30	x	<b>S25 - Academia International Research Day (AIRD)</b>  <b>Experience with an International NDT Master Course in view of Research and Development</b>  <u>Uwe Ewert 1, Viktor Lyamkin 2, Christian Boller 1, 3</u> 1 Dresden International University (DIU), Dresden, Germany 2 NDT and Quality Assurance (LZfPQ), Saarland University, Campus Dudweiler, Germany 3 NDT and Quality Assurance (LZfPQ), Saarland University, Campus Dudweiler, Germany	x	x	x
14:30 - 14:50	x	<b>Strategy for NDTE Education at Universities in France</b>  <u>Philippe Duvauchelle 1, Rachid El-Guerjouma 2, Serge Dos Santos 3</u> 1 NDT specialized master, INSA, France 2 Mechanical Engineering and Acoustic, Le Mans University, France 3 INSA Centre Val de Loire, France	x	x	x
14:50 - 15:10	x	<b>The Role of ASNT in Supporting NDT Education and Research in the USA</b>  <u>Shant Kenderian</u> The Aerospace Corporation, ASNT Engineering Council, U.S.A.	x	x	x
15:10 - 15:30	x	<b>Strategy for NDT Education at Universities in India</b>  <u>Krishnan Balasubramaniam</u> IIT, India	x	x	x
15:30 - 15:50	x	<b>Development and Practical Exploration of NDT Education at Universities in China</b>  <u>Yongshun Xiao</u> Tsinghua University, China	x	x	x
15:50 - 16:10	x	<b>Strategy for NDE Education at Universities in UK: An Integrated Education Programme for NDT Professionals</b>  <u>David Gilbert</u> BINDT, United Kingdom	x	x	x
16:10 - 16:40	<b>COFFEE-BREAK</b>				
16:40 - 17:10	x	<b>Panel Discussion</b>  <u>Shant Kenderian, Younho Cho, Peter Trampus</u> Academia NDT International, WG3 ICNDT	x	x	x
17:10 - 17:20	x	x	x	x	x
17:20 - 17:40	x	x	x	x	x
17:40 - 18:00	x	x	x	x	x
17:40 - 18:00	x	x	x	x	x
19:30	<b>GALA DINNER</b>				

**DAY 4 - THURSDAY, 6 JULY 2023**

06-Jul-23 TIME	SESSION AUDITORIUM II	AUDITORIUM III	AUDITORIUM VI	AUDITORIUM VIII	ROOM 1.08
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09:00 - 09:20	<b>S9 - Guided Waves</b> OC270 - Use of periodic structures for mode transformation in cylindrical objects  <u>I Boris</u>	<b>S5 - Materials Characterization</b> OC3 - HIGH TEMPERATURE MAGNETIC PROPERTIES OF SELECTED STEEL GRADES  <u>John Wilson</u>	<b>S14 - Transportation (Railway, Automotive, Marin, Aerospace)</b> OC250 - In-Service Ultrasonic Wheel Inspection thought beyond - New Generation with Focus on improved Ergonomics, Digitalization and Operator Support  <u>Thomas Würschig</u>	<b>S2 - NDT Industry 4.0</b> OC 129 - Guided wave ultrasonic feature determination in Type IV composite overwrapped pressure vessels towards the digital twin  <u>Bengisu Yilmaz</u>	<b>S17 - Energy Generation (Fossil, Nuclear and Regenerative Power Generation)</b> OC245 - Development and adaptation of Ultrasonic system for Windblades inspection using Unmanned Aerial Vehicles  <u>Sergio González</u>
09:20 - 09:40	<b>S9 - Guided Waves</b> OC315 - APPLICATIONS OF LINEAR SCANNING MAGNETOSTRICTIVE TRANSDUCERS (MST) FOR FINDING OF HARD TO DETECT ANOMALIES IN STRUCTURAL COMPONENTS  <u>Sergey Vinogradov</u>	<b>S5 - Materials Characterization</b> OC105 - Non-destructive magnetic evaluation of microstructure and mechanical properties of advanced high-strength steels  <u>Ane Martinez-de-Guerenu</u>	<b>S14 - Transportation (Railway, Automotive, Marin, Aerospace)</b> OC82 - Scanning pulse phase thermography for surface defect detection in manganese steel turnout frogs  <u>Christoph Tuschl</u>	<b>S2 - NDT Industry 4.0</b> OC53 - Automating 'Image-Based Simulation' with machine learning for virtual quality assurance in industrial applications  <u>Llion Evans</u>	<b>S17 - Energy Generation (Fossil, Nuclear and Regenerative Power Generation)</b> OC79 - Automated analysis of Baffle Bolts  <u>Javier De La Morena</u>
09:40 - 10:00	<b>S8 - Ultrasound Phased Arrays</b> OC49 - The effect of ultrasound wave path estimation to defect characterization capability in half-skip total focusing method  <u>Håkan Wirdelius</u>	<b>S5 - Materials Characterization</b> OC132 - Heat treatment and residual stress characterization by electromagnetic non-destructive methods  <u>Hélène Petitpré</u>	<b>S14 - Transportation (Railway, Automotive, Marin, Aerospace)</b> OC419 - Experimental evaluation of metallic ropes magnetisation under magneto-inductive testing  <u>Aldo Canova</u>	<b>S12 - Surface Methods (MPI &amp; PT)</b> OC 11 - Mechanized Dye Penetrant Internal Piping inspection system  <u>Peter Merck</u>	<b>S17 - Energy Generation (Fossil, Nuclear and Regenerative Power Generation)</b> OC24 - Power Plant Condition Assessment through Engineering, Materials Science, and NDT 4.0  <u>Terry Haigler</u>
10:00 - 10:20	<b>S8 - Ultrasound Phased Arrays</b> OC63 - Development of 1024-elements 2D matrix array transducer for high-resolution 3D phased-array imaging in NDE applications  <u>Yoshikazu Ohara</u>	<b>S5 - Materials Characterization</b> OC161 - Magnetic NDT of the Microstructure of Steels for Oil and Gas Applications  <u>Alasdair Regan</u>	<b>S14 - Transportation (Railway, Automotive, Marin, Aerospace)</b> OC350 - How to Reach 100% Inspection Coverage of Aeroengine Fan Blades with a High Probability of Detection  <u>Etienne Grondin</u>	<b>S3 - Robotics and Automation</b> OC169 - Strategies for pipeline inspection using mobile robots  <u>Jie Zhang</u>	<b>S17 - Energy Generation (Fossil, Nuclear and Regenerative Power Generation)</b> OC282 - Eddy current response from copper tube extrusion laps compared to artificial notches  <u>Barend Van Den Bos</u>
10:20 - 10:40	<b>S8 - Ultrasound Phased Arrays</b> OC251 - Innovative Instrument Platforms for Ultrasonic Inspections  <u>Johannes Buechler</u>	<b>S5 - Materials Characterization</b> OC172 - Advances in Automated Eddy-Current Characterisation of Carbon Fibre Composites  <u>Qiuji Yi</u>	<b>S22 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)</b> OC29 - Inspection of vaporizers and recuperators in Binary Cycle Geo Thermal Power plant  <u>Vignesh Sivanandam</u>	<b>S3 - Robotics and Automation</b> OC413 - DEKRA Robotized Inspection of Hazardous Areas  <u>Oliver London</u>	<b>S17 - Energy Generation (Fossil, Nuclear and Regenerative Power Generation)</b> OC329 - Investigation on Potential Benefits of Phase Coherence Imaging in Detection and Sizing of Stress Corrosion Cracking in Austenitic Materials Used in the Nuclear Industry  <u>Florin Turcu</u>
10:40 - 11:10	<b>COFFEE-BREAK</b>				
11:10 - 11:30	<b>S8 - Ultrasound Phased Arrays</b> OC267 - Assessing the roughness of surfaces with ultrasound arrays  <u>Thiago A. R. Passarin</u>	<b>S5 - Materials Characterization</b> OC385 - Can Martensitic Phase Transformation Measured by Magnetic Methods be an Indicator of Fatigue Damage in Austenitic Steel at Elevated Temperature and Thermo-Mechanical Loading?  <u>Viktor Lyamkin</u>	<b>S22 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)</b> OC23 - Process safe automatic evaluation for fast Inline-CT systems  <u>Tobias Schön</u>	<b>S3 - Robotics and Automation</b> OC7 - Quantitative Measurement and Evaluation of High-Resolution Ultrasonic Sound Fields using a Novel Automated Ultrasonic Immersion Scanner  <u>Sanjeevareddy Kokoori</u>	<b>S18 - Oil &amp; Gas</b> OC296 - Performance demonstration of AUT Pipeline girth welds using simulation and the new CIVA AUT Pipeline software  <u>Stéphane Le Berre</u>
11:30 - 11:50	<b>S8 - Ultrasound Phased Arrays</b> OC43 - Low Frequency GFRP Imaging with Variable Aperture TFM  <u>Renato Nogueira</u>	<b>S5 - Materials Characterization</b> OC402 - Microchannels produced by Friction Stir Channeling: characterisation with non-destructive testing techniques  <u>Miguel A. Machado</u>	<b>S22 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)</b> OC33 - Unsupervised deep learning for defect detection on CT parts using simulated data  <u>Virginia Florian</u>	<b>S3 - Robotics and Automation</b> OC114 - Innovations in ultrasonic inspection of forged rings  <u>Tobias Gautzsch</u>	<b>S18 - Oil &amp; Gas</b> OC330 - Reducing False Calls in HTHA Inspection through Phase Coherence Imaging (PCI)  <u>Florin Turcu</u>
11:50 - 12:10	<b>S8 - Ultrasound Phased Arrays</b> OC390 - Total Focusing Method (TFM) and Phase Coherence Imaging (PCI) applied to various industrial cases  <u>Paul Hillman</u>	<b>S5 - Materials Characterization</b> OC125 - Reliable non-destructive detection and characterization of material degradation caused by high-temperature corrosion  <u>Sebastian Barton</u>	<b>S22 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)</b> OC64 - Optimization of Computed Tomography Data Acquisition by Means of Quantum Computing  <u>Theobald Fuchs</u>	<b>S3 - Robotics and Automation</b> OC135 - AUTOMATED MULTI-NDT METHOD  <u>Jules Recolin</u>	<b>S18 - Oil &amp; Gas</b> OC191 - Applying Artificial Intelligence (AI) in Digital Radiography  <u>Lennart Schulenburg</u>
12:10 - 12:30	<b>S8 - Ultrasound Phased Arrays</b> OC398 - Total Focusing (TFM) for the Ultrasonic Testing (UT) of drawn arc stud welding  <u>Carlo Romito</u>	<b>S5 - Materials Characterization</b> OC461 - Visualization of stresses, properties and defects in steel components by means of intelligent magneto-optical sensor technology  <u>Lukas Lauck</u>	<b>S22 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)</b> OC22 - Automatic scan planning for CT scans  <u>Frank Sukowski</u>	<b>S3 - Robotics and Automation</b> OC227 - Autonomous Ultrasonic Disc inspection System  <u>Michael Bron</u>	<b>S18 - Oil &amp; Gas</b> OC261 - A data-driven method for the correction of optical distortions of depth cameras in immersion NDT  <u>Thiago A. R. Passarin</u>

12:30 - 12:50	<b>S8 - Ultrasound Phased Arrays</b> OC432 - New Real-Time TFM in 1 shot  <u>Christophe Chollet</u>	<b>S5 - Materials Characterization</b> OC162 - Non-Destructive Determination of the Magnetic Properties of Ferritic Steel Strip and Plate Products by Open-Circuit Magnetic Measurement  <u>Alasdair Regan</u>	<b>S22 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)</b> OC362 - Merged Mode TFM with Mode Conversion Artifact Suppression  <u>Patrick Huot</u>	<b>S3 - Robotics and Automation</b> OC360 - The use of Robotic Solutions for inspection of Unpiggable Pipelines  <u>Michel Bezemer</u>	#N/D
12:50 - 14:10	<b>LUNCH</b>				
14:10 - 14:30	<b>S8 - Ultrasound Phased Arrays</b> OC4 - Development and Validation Testing of High-Temperature Phased-Array UT Transducers and Wedges for Process Applications  <u>Steve Strachan</u>	<b>S5 - Materials Characterization</b> OC75 - Estimation of the stiffness tensor from Lamb wave velocity profiles measured on steel with different texture  <u>Arno Volker</u>	<b>S22 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)</b> OC100 - Innovative NDT Technique, for a More Productive Surface Damage Inspection  <u>Francois Lachance</u>	<b>S3 - Robotics and Automation</b> OC378 - A Freely Positionable Dual-Robot System for Automated NDT of Large Lightweight Structures  <u>Marc Kreuzbruck</u>	#N/D
14:30 - 14:50	<b>S8 - Ultrasound Phased Arrays</b> OC220 - Temperature and geometry impact on defect detection and sizing  <u>Pavel Mares</u>	<b>S5 - Materials Characterization</b> OC238 - Orthotropic stiffness characterization using guided wavefield data and machine learning  <u>Adil Han Orta</u>	<b>S22 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)</b> OC131 - Novel concepts for automatic inspection of railway tracks  <u>Stephan Falter</u>	<b>S3 - Robotics and Automation</b> OC10 - Nuclear RPV inspection with multiple ROV:s for shorter inspection time  <u>Peter Merck</u>	#N/D
14:50 - 15:10	<b>S8 - Ultrasound Phased Arrays</b> OC269 - Ultrasonic sectorial inspection in the presence of temperature gradients  <u>Thiago A. R. Passarin</u>	<b>S5 - Materials Characterization</b> OC374 - Study of the crystallization behaviour of phase change materials by in-situ X-ray computed tomography  <u>Jorge Martinez Garcia</u>	<b>S22 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)</b> OC291 - Thermographic detection of internal defects using photothermal super resolution reconstruction and 2D-structured illumination patterns  <u>Julien Lecompanon</u>	<b>S3 - Robotics and Automation</b> OC139 - Novel automatic inspections  <u>Jose Luis Lanzagorta</u>	#N/D
15:10 - 15:30	<b>S8 - Ultrasound Phased Arrays</b> OC351 - Ultra-Fast Wall Remaining Thickness Measurements & Reporting  <u>Guillaume Ithurralde</u>	<b>S5 - Materials Characterization</b> OC299 - Layer thickness measurement of ceramic systems with a numerical model for flash thermography  <u>Julia Frisch</u>	<b>S22 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)</b> OC278 - Visual color inspection with a hyperspectral camera: inline application for automotive parts production  <u>Eduardo Assunção</u>	<b>S3 - Robotics and Automation</b> OC366 - Automatic Methods for Ultrasonic Scanning Paths Generation  <u>Michel Brassard</u>	#N/D
15:30 - 15:50	<b>S8 - Ultrasound Phased Arrays</b> OC170 - In-process Monitoring and Control of Multi-Pass Fusion Welding Using Phased Arrays  <u>Nina Sweeney</u>	<b>S5 - Materials Characterization</b> OC144 - Deep Learning Approach for Multi-Class Segmentation in Industrial CT-Data  <u>Tim Schanz</u>	<b>S22 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)</b> OC46 - AI-based non-destructive weld seam testing in the field of passive thermography  <u>Patrick Kammel</u>	<b>S3 - Robotics and Automation</b> OC290 - Automated misalignment correction method for ultrasonic inspection of CFRP parts  <u>Alexandre Beausoleil</u>	#N/D
15:50 - 16:10	<b>S8 - Ultrasound Phased Arrays</b> OC218 - Detection of defects initiation in weld joints  <u>Pavel Mares</u>	<b>S5 - Materials Characterization</b> OC145 - Generative Synthesis of Defects in Industrial Computed Tomography Data  <u>Robin Tenscher-Philipp</u>	<b>S22 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)</b> OC213 - Artificial Intelligence for Assisted Analysis of Eddy Current Data from Heat Exchangers with Non-Ferromagnetic Tubes  <u>Andreanne Potvin</u>	<b>S3 - Robotics and Automation</b> OC219 - High-speed, multi-zone ultrasonic inspection of bar and wire stocks with an in-line phased array inspection system  <u>Thomas Würschig</u>	#N/D
16:10 - 16:40	<b>COFFEE-BREAK</b>				
16:40 - 17:00	<b>S8 - Ultrasound Phased Arrays</b> OC359 - On the Use of Asymmetrical DMA Probe Assemblies for PA UT Inspection of Tapered Dissimilar Metal Weld Configurations  <u>Paul Hillman</u>	<b>S21 - Food &amp; Agriculture</b> OC363 - Monitoring of water distribution in meat upon freezing with X-ray computed tomography  <u>Philipp Schütz</u>	<b>S22 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)</b> OC65 - Digital radiography by counting photons: innovative solution for testing very thick parts  <u>Angela Peterzol</u>	<b>S24 - Qualification, certification, standards and training</b> OC325 - Standard development for Eddy Current Arrays in lieu of Magnetic Particle Testing  <u>Casper Wassink</u>	#N/D
17:00 - 17:20	<b>S8 - Ultrasound Phased Arrays</b> OC372 - A High-Speed Ultrasound Full-Matrix Capture Acquisition System for Robotic Weld Inspection  <u>Marcin Lewandowski</u>	<b>S5 - Materials Characterization</b> OC276 - High-resolution imaging of magnesium feedstock material for Wire Arc Additive Manufacturing (WAAM)  <u>Sascha Senck</u>	<b>S22 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)</b> OC353 - Sub-second X-ray tomography using MetalJet X-ray sources  <u>Emil Espes</u>	<b>S24 - Qualification, certification, standards and training</b> OC189 - Qualification and Certification of NDT Personnel in Civil Engineering (NDT-CE)  <u>Sascha Feistkorn</u>	#N/D

17:20 - 17:40	<b>S8 - Ultrasound Phased Arrays</b> OC104 - Towards a simplified verification of ultrasound phased array systems  <u>Benoit Dupont</u>	<b>S5 - Materials Characterization</b> OC80 - Monitoring crack tip position in Cracked Lap Shear specimens subjected to fatigue loading  <u>Michele Carboni</u>	<b>S22 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)</b> OC449 - ELECTRICAL CONDUCTIVITY AND THICKNESS ESTIMATION BASED ON DIMENSION ANALYSIS IN EDDY CURRENT TESTING  <u>Antonello Tamburrino</u>	<b>S24 - Qualification, certification, standards and training</b> OC418 - The conversion from film to digital and the revision of ISO 17636-2, weld testing, with digital radiography  <u>Uwe Zscherpel</u>	#N/D
17:40 - 18:00	<b>S8 - Ultrasound Phased Arrays</b> OC442 - Robot-based spot weld inspection - almost couplant-free, imaging phased array based inspection with PHAsis, integrated and automated by ABB Robotics  <u>Carsten Köhler</u>	<b>S5 - Materials Characterization</b> OC37 - INFLUENCE OF BIAXIAL STRESS ON MAGNETIC BEHAVIOR OF HOT- ROLLED STEELS  <u>Olivier Hubert</u>	<b>S22 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)</b> OC289 - Resonant Inductive Arrays for Non-Destructive Testing Applications  <u>Robert Hughes</u>	<b>S24 - Qualification, certification, standards and training</b> OC52 - Enhancing the NDE training at the light of the new technologies and market demands  <u>Rafael Martínez-Oña</u>	#N/D
18:00 - 18:20	<b>S8 - Ultrasound Phased Arrays</b> OC68 - Inspection for non-planar shaped welded joints of pipes using FMC ultrasonic technique  <u>Sho Yamaguchi</u>	<b>S9 - Guided Waves</b> OC122 - Guided Waves Propagation in Composite Overwrapped Pressure Vessel Towards the Design of a Sensor Network for Structural Health Monitoring  <u>Samir Mustapha</u>	<b>S22 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)</b> OC373 - Application of magnetic recording method to the non-destructive evaluation of ferromagnetic structures  <u>Tomasz Chady</u>	<b>S23 - NDT Reliability and Statistic</b> OC272 - A POD approach by simulation of an industrial ultrasonic inspection  <u>Benoit Dupont</u>	#N/D

**DAY 5 - FRIDAY, 7 JULY 2023**

07-Jul-23 TIME	SESSION AUDITORIUM II	AUDITORIUM III	AUDITORIUM VI	AUDITORIUM VIII	ROOM 1.08
09:00 - 09:20	<b>S8 - Ultrasound Phased Arrays</b> OC340 - Overview of NDT Array Techniques Applied to Inspection of Rolling Stock  <u>Giovanni Corti</u>	<b>S5 - Materials Characterization</b> OC44 - Development of AI based analysis tools for online monitoring of steel-making process  <u>Christophe Reboud</u>	<b>Joint EFNDT-ICNDT Workshop:</b> Training, Qualification and Certification – the new 9712 and more	<b>S23 - NDT Reliability and Statistic</b> OC143 - Comparison of hit/miss and 'a versus a' POD calculations for short surface cracks using inductive thermography  <u>Beate Oswald-Tranta</u>	#N/D
09:20 - 09:40	<b>S8 - Ultrasound Phased Arrays</b> OC268 - Parametric reconstruction of surfaces for ultrasound immersion imaging  <u>Thiago A. R. Passarin</u>	<b>S5 - Materials Characterization</b> OC48 - How the EU project "Online Microstructure Analytics" advances inline sensing of microstructure during steel manufacturing  <u>Frenk Van Den Berg</u>		<b>S23 - NDT Reliability and Statistic</b> OC266 - Reliability Analysis of Pipe Wall Thinning based on Quantification of Ultrasonic Testing  <u>Kantaro Ikeda</u>	#N/D
09:40 - 10:00	<b>S8 - Ultrasound Phased Arrays</b> OC71 - Automated inspection of heavy plates with phased-array based porosity testing  <u>Andreas Knam</u>	<b>S5 - Materials Characterization</b> OC38 - MAGNETOSTRICTIVE BEHAVIOR OF HOT-ROLLED STEELS  <u>Olivier Hubert</u>		<b>S23 - NDT Reliability and Statistic</b> OC426 - Inspectability and POD Investigation for Optical Solar Reflector Bonded Satellite Panels  <u>Utku Şahin</u>	#N/D
10:00 - 10:20	<b>S8 - Ultrasound Phased Arrays</b> OC295 - Automated IBEX crawler for PAUT inspection for in-service ferromagnetic assets  <u>Natalia Marcial</u>	<b>S5 - Materials Characterization</b> OC422 - EDDY CURRENT FALSE INDICATIONS IN AUSTENITIC STEEL AND TITANIUM ALLOYS HEAT EXCHANGER TUBES ACTIVATED BY STRESS  <u>Valentyn Uchanin</u>		<b>S23 - NDT Reliability and Statistic</b> OC281 - High energy Computed Tomography of high density alloys using a 6 MeV Linear Accelerator: detectability and use of Artificial Intelligence  <u>Stefano Benuzzi</u>	#N/D
10:20 - 10:40	<b>S8 - Ultrasound Phased Arrays</b> OC84 - Comparative study of advanced image reconstruction algorithms for complex arbitrary components  <u>Sumana Sumana</u>	#N/D		#N/D	#N/D
10:40 - 11:10	<b>COFFEE-BREAK</b>				
11:10 - 11:30	<b>S8 - Ultrasound Phased Arrays</b> OC99 - Ultrasonic Inspection for Complex Geometry  <u>Matt Chandler</u>	#N/D	<b>Joint EFNDT-ICNDT Workshop:</b> Training, Qualification and Certification – the new 9712 and more	<b>S23 - NDT Reliability and Statistic</b> OC216 - Introduction of a certification procedure for the acoustic response of reference reflectors for ultrasonic testing  <u>Thomas Würschig</u>	#N/D

11:30 - 11:50	<b>S8 - Ultrasound Phased Arrays</b> OC404 - Leveraging automated tools to achieve a new level of efficiency and performance for pipe girth weld inspection.  <u>Paul Hillman</u>	#N/D		<b>S23 - NDT Reliability and Statistic</b> OC21 - USING MODELLING AND METAMODELS FOR RELIABILITY STUDY IN NDE  <u>Fabrice Foucher</u>	#N/D
11:50 - 12:10	<b>S8 - Ultrasound Phased Arrays</b> OC121 - Time of flight fast approximation method for ultrasound sub-surface imaging  <u>Guillermo Cosarinsky</u>	#N/D		#N/D	#N/D
12:10 - 12:30	<b>S8 - Ultrasound Phased Arrays</b> OC262 - Full Waveform Inversion for NDT using ultrasonic linear arrays  <u>Thiago A. R. Passarin</u>	#N/D		#N/D	#N/D
12:30 - 13:30	x	x	x	<b>CLOSING CEREMONY</b>	x
13:30 - 14:30	<b>LUNCH</b>				
14:30	<b>CLOSING</b>				

**DAY 5 - FRIDAY, 7 JULY 2023 / EFNDT-ICNDT WORKSHOP: TRAINING, QUALIFICATION AND CERTIFICATION**

07-Jul-23 TIME	SESSION AUDITORIUM II	AUDITORIUM III	AUDITORIUM VI	AUDITORIUM VIII	ROOM 1.08
08:30 - 08:40	x	x	<b>Joint EFNDT-ICNDT Workshop: Training, Qualification and Certification – the new 9712 and more</b>  Opening Remarks  <u>Sajeesh K. Babu</u> , Chair - ICNDT <u>Fermín Gomez Fraile</u> , President - EFNDT	x	x
08:40 - 09:00	x	x	<b>Implementation of SGNDDT ISO 9712: 2021 by NDTSS in Singapore, Challenges &amp; Success</b>  <u>Sajeesh K. Babu</u> NDTSS	x	x
09:00 - 09:20	x	x	<b>Implementation of BS EN ISO 9712: 2022 by BINDT</b>  <u>Jennifer Cook</u> BINDT	x	x
09:20 - 09:40	x	x	<b>EFNDT – ICNDT drive for quality of Certification and Qualification</b>  <u>Harold Jansen</u> ICNDT	x	x
09:40 - 10:00	x	x	<b>ICNDT Guide update</b>  <u>Mike Farley</u> ICNDT	x	x
10:00 - 10:20	x	x	<b>EFNDT Certification update</b>  <u>Thomas Wenzel</u> EFNDT	x	x
10:20 - 10:40	x	x	<b>EN4179/NAS 410: Qualification and Certification in Aerospace</b>  <u>Fermín Gomez Fraile</u> EFNDT	x	x
10:40 - 11:10	<b>COFFEE-BREAK</b>				

11:10 - 11:30	x	x	ASNT- 9712 <u>David Bajula</u> ASNT	x	x
11:30 - 11:50	x	x	The Pressure Equipment Regulations: Great Britain <u>Mark Dowell</u> BINDT	x	x
11:50 - 12:10	x	x	Discussion & Closing remarks	x	x
12:10 - 12:30	x	x	x	x	x
12:30 - 13:30	x	x	x	x	x
13:30 - 14:30	LUNCH				
14:30	CLOSING				

POSTERS Full Day	EXHIBITION & NETWORKING AREA					
3-7 Jul 2023	<b>S1 - Additive Manufacturing</b> P9 - Digital Twin for Robot Based Computed Tomography  <u>Frank Herold</u>	<b>S1 - Additive Manufacturing</b> P160 - Ultrasonic Array Testing Method for Validation of Aeronautical Components in Aluminium Alloys Produced by Additive Manufacturing  <u>Carla Sofia Proença</u>	<b>S1 - Additive Manufacturing</b> P279 - Application of Non-destructive Testing in Quality Control of Manufactured Aluminium Metal Matrix Composite Components for the Automotive Industry  <u>Carla Sofia Proença</u>	<b>S1 - Additive Manufacturing</b> P311 - Evaluating Capacitive Imaging for Powder Bed Fusion Metal Additive Manufacturing  <u>Luís Rosado</u>	<b>S1 - Additive Manufacturing</b> P333 - Quality Control Using Ultrasonic Phased Array Inspection of Components Produced by Directed Energy Deposition in Ti6Al4V Alloy  <u>Carla Sofia Proença</u>	<b>S20 - Green &amp; Echo Technology</b> P30 - Evaluation of glycerol speed of sound  <u>Jaime Batista Santos</u>
	<b>S5 - Materials Characterization</b> P149 - STATE OF AGING CLASSIFICATION OF MODIFIED-HP STEEL TUBES BY EDDY CURRENT TEST APPLYING MACHINE LEARNING  <u>Ana Carolina Brandão</u>	<b>S5 - Materials Characterization</b> P230 - Temperature-Controlled in-situ Tensile Tests of Polymer Tape with Single Particles  <u>Sarah Heupl</u>	<b>S5 - Materials Characterization</b> P391 - Grinding burn classification with surface Barkhausen noise measurements  <u>Suvi Santa-Aho</u>	<b>S6 - Microwave, Terahertz, and Infrared</b> P90 - THz computed tomography for non-destructive testing  <u>Elisabeth Leiss-Holzinger</u>	<b>S6 - Microwave, Terahertz, and Infrared</b> P233 - Hand Lay Up process monitoring by Infrared Thermography  <u>Sergio González</u>	<b>S15 - Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)</b> P379 - Hybrid system development and application research for refrigerant leak inspection  <u>Yeongil Choi</u>
	<b>S2 - NDT Industry 4.0</b> P376 - Deep learning-based algorithms for ultrasound structural health monitoring in nuclear power plants' hazardous work conditions  <u>Marko Budimir</u>	<b>S2 - NDT Industry 4.0</b> P403 - Ultrasonic Spot Weld inspection system based on Industrial Robotic, Artificial Intelligence and Artificial Vision  <u>Montserrat Acebes</u>	<b>S2 - NDT Industry 4.0</b> P405 - Synchronism system for generating ultrasonic images of complex geometry pieces using industrial robots  <u>Montserrat Acebes</u>	<b>S2 - NDT Industry 4.0</b> P381 - Wheel and axle defect detection based on deep learning  <u>Jian Ping Peng</u>	<b>S4 - NDT of Composites</b> P96 - Quality Control of Composite parts by robot guided Terahertz imaging  <u>Elisabeth Leiss-Holzinger</u>	<b>S23 - NDT Reliability and Statistic</b> P388 - Value Generation: Non-Destructive Testing – How to generate value with testing  <u>Vamsi Krishna Rentala</u>
	<b>S22 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)</b> P346 - AI in NDT - How digitalization is leading towards an automated future in NDT  <u>Dominik Nestler</u>	<b>S13 - Numerical Simulation, Modeling and Data Processing</b> P180 - Analysis of formation processes of informative features in eddy current probes with pulsed excitation mode  <u>Iuliia Lysenko</u>	<b>S18 - Oil &amp; Gas</b> P51 - Conformable Digital Detector Arrays for Nondestructive Evaluation  <u>Brian White</u>	<b>S12 - Surface Methods (MPI &amp; PT)</b> P357 - New Eddy Current Carbon Steel Weld Inspection Probe with Easy to Interpret Signals  <u>Matija Kekelj</u>	<b>S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)</b> P95 - Determination of the Hardness Penetration Depth in Thermally Treated Steel Parts by Laser Ultrasound  <u>Wolfgang Haderer</u>	<b>S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)</b> P367 - NAUT application and signal analysis for detecting the unsoundness inside EV battery packs and all-solid-state batteries  <u>SeongJin Lim</u>
	<b>S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)</b> P427 - New technologies for air-coupled ultrasonic inspection  <u>Andreas Bodi</u>	<b>S8 - Ultrasound Phased Arrays</b> P98 - Experimental verification of phased array annular probe in ultrasonic immersion setting  <u>Mikael Sahl</u>				

#### CONFERENCE TOPICS:

SESSION	TOPIC
S1	Additive Manufacturing
S2	NDT Industry 4.0
S3	Robotics and Automation
S4	NDT of Composites
S5	Materials Characterization
S6	Microwave, Terahertz, and Infrared

<b>S7</b>	Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)
<b>S8</b>	Ultrasound Phased Arrays
<b>S9</b>	Guided Waves
<b>S10</b>	Micro & Nano Technology and High-Resolution NDT
<b>S11</b>	Art & Cultural Heritage
<b>S12</b>	Surface Methods (MPI & PT)
<b>S13</b>	Numerical Simulation, Modelling and Data Processing
<b>S14</b>	Transportation (Railway, Automotive, Marine, Aerospace)
<b>S15</b>	Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)
<b>S16</b>	NDE & NDT of Civil Infrastructure, Structural Engineering and Materials
<b>S17</b>	Energy Generation (Fossil, Nuclear and Regenerative Power Generation)
<b>S18</b>	Oil & Gas
<b>S19</b>	Biomedical Technology
<b>S20</b>	Green & Echo Technology
<b>S21</b>	Food & Agriculture
<b>S22</b>	New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)
<b>S23</b>	NDT Reliability and Statistic
<b>S24</b>	Qualification, certification, standards and training
<b>S25</b>	Academia International Research Day (AIRD)

**LEGEND:**

<b>S</b>	Session of the Conference Topic
<b>OC</b>	Oral Communication
<b>P</b>	Poster