13TH EUROPEAN CONFERENCE ON NON-DESTRUCTIVE TESTING

LISBON - PORTUGAL, 3-7 JULY 2023

DETAILED & SCIENTIFIC PROGRAMME

Last update: 15.05.2023

DAY 1 - MONDAY, 3 JULY 2023

03-Jul-23	SESSION					
TIME	ROOM 1	ROOM 2	ROOM 3	ROOM 6	ROOM 8	ROOM 1.08
09:00 - 12:30	**OPENING CEREMONY**	X	X	X	X	X
12:30 - 14:10	**LUNCH**					
14:10 - 14:30	**Additive Manufacturing** OC 103 - Defect Detection in Additively Manufactured Parts by Laser Ultrasound Tomography Bernhard Reitinger	**Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)** OC 421 - Multi-functional ultrasound phased array imaging Choon-su Park	**Surface Methods (MPI & PT)** OC 32 - Bio Water Based Liquid Penetrants and Magnetics: a safer and cost-efficient solution for the future Michele Cevenini	**NDE & NDT of Civil Infrastructure, Structural Engineering and Materials** OC 47 - Modelling Crystallographic Texture Evaluation and Non-Destructive Measurement of Magnetic Anisotropy using an Electromagnetic Sensor in Interstitial Free (If) Steels Mohsen Aghadavoudi Jolfaei	**NDT of Composites** OC 137 - Ultrasonic Inspection for aging monitoring of GFRP composites Marcella Grosso	#N/D
14:30 - 14:50	**Additive Manufacturing** OC 93 - Inspection of Additive manufacturing parts, study of NDT solutions for WAAM Fabien Lefevre	**Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)** OC 130 - Phased array probes for air-coupled ultrasonic testing based on cellular polymer Mate Gaal	**Surface Methods (MPI & PT)** OC 11 - Mechanized Dye Penetrant Internal Piping inspection system Peter Merck	**NDE & NDT of Civil Infrastructure, Structural Engineering and Materials** OC 61 - Active Infrared Thermography applied for concrete structures inspection in Nuclear Power Plants Javier De La Morena	**NDT of Composites** OC 18 - MEMS - sensor array for non-contact ultrasonic composite panel inspection Arno Volker	#N/D
14:50 - 15:10	**Additive Manufacturing** OC 212 - Online eddy current testing of PBF-LB/M parts using GMR sensor arrays during manufacturing Matthias Pelkner	**Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)** OC 107 - Thermoacoustic phased-array radiators – Theory, characteristics, and applications Daniel Hufschläger	**Surface Methods (MPI & PT)** OC 57 - UV-A LED's in fluorescent penetrant testing and magnetic particle testing Jesko Klippstein	**NDE & NDT of Civil Infrastructure, Structural Engineering and Materials** OC 319 - Advanced Eddy Current Testing of Carbon Composites Marie Rudolfova	**NDT of Composites** OC 232 - Air-coupled Ultrasonic Inspection of Thermoplastic Composite Structures for Aerospace Vehicles Armin Huber	#N/D
15:10 - 15:30	**Additive Manufacturing** OC 76 - Multi-physics data registration for the improvement of Additive Manufacturing process control Jitendra Singh Rathore	**Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)** OC 182 - Phased-Array Approach to Air-coupled Ultrasound with Resonant Defect Excitation Timo Reindl	**Surface Methods (MPI & PT)** OC 89 - Development of an Automatic magnetic particle flaw detector System Using Deep Learning Daisuke Nagata	**NDE & NDT of Civil Infrastructure, Structural Engineering and Materials** OC 445 - Validation through field data of LineCore, a lightweight Eddy-current sensor for the early detection of corrosion of ACSRs Nicolas Pouliot	**NDT of Composites** OC 246 - Ad-hoc solutions for ultrasonic inspection of highly complex aircraft composite structures Sergio González	#N/D
15:30 - 15:50	**Additive Manufacturing** OC 16 - INDUSTRIAL APPLICATION OF HIGH ENERGY CT Eberhard Neuser	**Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)** OC 211 - Ultrasonic C-scan imaging of damage in the quefrency domain Xiaoyu Yang	**Surface Methods (MPI & PT)** OC 358 - UV _ Irradiation in NDT: Quo vadis Thomas Schratt	**NDE & NDT of Civil Infrastructure, Structural Engineering and Materials** OC 452 - Study on the nuclear method used in earthworks quality control of civil infrastructures José Neves	**NDT of Composites** OC 285 - Imaging of 3D Fiber Architecture in Composites using Ultrasound Computed Tomography Mathias Kersemans	#N/D
15:50 - 16:10	**Additive Manufacturing** OC 271 - ADVANCED X-RAY COMPUTED TOMOGRAPHY IN ADDITIVE MANUFACTURING Gerhard Zacher	**Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)** OC 70 - Estimating manufacturing parameters of additively manufactured 316L steel cubes using ultrasound fingerprinting Shafaq Zia	**Green & Echo Technology** OC 31 - Work safety in magnetic particle and penetrant testing Kersten Alward	**NDE & NDT of Civil Infrastructure, Structural Engineering and Materials** OC 318 - Linear and Non-Linear Resonant Ultrasonic Testing for the Early Detection of Alkali-Silica Reaction in Concrete Klayne Silva	**NDT of Composites** OC 406 - UT data analysis steps for development of automated detection technique of bonding defects in multi-layered structures Damira Smagulova	#N/D
16:10 - 16:40	**COFFEE-BREAK**					
16:40 - 17:00	**Additive Manufacturing** OC 228 - Non-contact assessment of porosity in metal 3D printed parts by vibration spectra Alexey Tatarinov	**Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)** OC 153 - Non-Destructive Testing of Battery Pouches with Imaging Ultrasonic Techniques Artur Szewieczek	#N/D	**NDE & NDT of Civil Infrastructure, Structural Engineering and Materials** OC 444 - Ultrasonic Phased Array application for the detection of discrepancy on laser welding Giuseppe Silipigni	**NDT of Composites** OC 113 - Ultrasonic representation of photothermal signals to localize and identify foreign object debris in composite materials Guenther Mayr	#N/D
17:00 - 17:20	**Additive Manufacturing** OC 273 - NDT for additive manufacturing space hardware qualification Carlos Galleguillos	**Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)** OC 375 - Automated echo separation in scanning acoustic microscopy for testing multi-layered electronic devices Emanuel Leipner	#N/D	**NDE & NDT of Civil Infrastructure, Structural Engineering and Materials** OC 447 - Ultrasonic Pulse-Echo inspection of backfill grout in segmental tunnel linings Roberto Felicetti	**NDT of Composites** OC 236 - 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. Roberto Giacchetta	#N/D

17:20	WELCOME RECEPTION

DAY 2 - TUESDAY, 4 JULY 2023

04-Jul-23	SESSION				
TIME	ROOM 2	ROOM 3	ROOM 6	ROOM 8	ROOM 1.08
09:00 - 09:20	**Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)** OC 428 - Online quality monitoring in the production of organo sheets by air-coupled ultrasonic testing Ralf Steinhausen	**NDT of Composites** OC 150 - CREATION AND NON-DESTRUCTIVE CONTROL OF ELECTRIC HEATING ELEMENTS OF THE AIRCRAFT ICING PREVENTION SYSTEM Mykhail Kazakevych	**NDE & NDT of Civil Infrastructure, Structural Engineering and Materials** OC 78 - Time reversal method applied to leaky Lamb waves in an immersed layered medium Jean-Christophe Vallée	**Additive Manufacturing** OC 310 - Near Field Microwave Probe for Metal Additive Manufacturing Imaging Luís Rosado	**Numerical Simulation, Modeling and Data Processing** OC 412 - Numeric Prediction of the Detail Visibility in Industrial X-Ray Computed Tomography by Human Observers Uwe Ewert
09:20 - 09:40	**Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)** OC 256 - Directivity of laser generated ultrasonic waves in thermoelastic regime Xin Tu	**NDT of Composites** OC 196 - Acoustic material testing a progressive testing method. Jörg Ritter	**NDE & NDT of Civil Infrastructure, Structural Engineering and Materials** OC 176 - Multi-dimensional data fusion study for ultrasonic and radiographic non-destructive inspections Elena Jasiuniene	**Additive Manufacturing** OC 205 - Automated Multi-Modal In-Process Non-Destructive Evaluation of Wire + Arc Additive Manufacturing Ehsan Mohseni	**Numerical Simulation, Modeling and Data Processing** OC 252 - Industrial Radiography simulation with a Monte-Carlo model including full physics Andreas Schumm
09:40 - 10:00	**Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)** OC 81 - Automated laser ultrasound for weld seams Norbert Huber	**NDT of Composites** OC 91 - Investigation of Kissing Bonds in Adhesive Joints Mike Kornely	**NDE & NDT of Civil Infrastructure, Structural Engineering and Materials** OC 178 - Inductive arrays for inspection of curved structures Alexis Hernandez	**Additive Manufacturing** OC 324 - Inline inspection of metal parts produced by Wire and Arc Additive Manufacturing (WAAM) Telmo G. Santos	**Numerical Simulation, Modeling and Data Processing** OC 301 - Realistic Simulation of CT Systems - An Introduction to The CTSimU2 Project Carsten Bellon
10:00 - 10:20	**Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)** OC 67 - Noncontact measurement of bolt axial force during tightening processes using scattered laser ultrasonic waves So Kitazawa	**NDT of Composites** OC 382 - A new Defects Detection Method in CFRP with non-contact Lamb Waves Propagation and Wavelet Transform Analysis Lea Lecointre	**NDE & NDT of Civil Infrastructure, Structural Engineering and Materials** OC 257 - Defect detection and sizing in components of the energy sector based on phase velocity variation of ultrasonic guided waves Renaldas Raisutis	**Additive Manufacturing** OC 337 - Flaw Detection in Wire and Arc Additive Manufacturing Using In-Situ Wide Frequency Bandwidth Acoustic Pressure André Ramalho	**Numerical Simulation, Modeling and Data Processing** OC 118 - Anomalies detector on industrial radiographies: application on High Pressure Turbine Blades Clément Remacha
10:20 - 10:40	**Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)** OC 42 - Combination of laser ultrasonics and thermography for enhanced defect characterization in CFRP parts Bernhard Reitinger	**NDT of Composites** OC 240 - Nonlinear Guided Wave Damage Imaging in Composite Structures Using A Sparse Sensor Network Yusheng Ma	**NDE & NDT of Civil Infrastructure, Structural Engineering and Materials** OC 258 - Effect of Object Thickness on Resolution of TDI X-ray Detectors Anthony Dimalanta	**Additive Manufacturing** OC 441 - Tomosynthesis for large additive manufacturing parts Anne-Françoise Obaton	**Numerical Simulation, Modeling and Data Processing** OC 254 - Improvement of radiographic images quality using algorithms dedicated to geometric blur reduction Nezha Mamouni
10:40 - 11:10	**COFFEE-BREAK**				
11:10 - 11:30	**Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)** OC 55 - Assessment of metallurgical properties on moving steel strips at high temperature with laser ultrasonics Guillaume Cousin	**NDT of Composites** OC 223 - 3D-characterization of carbon fibre reinforced polymers by Talbot-Lau grating interferometry radioscopy and computed tomography Johann Kastner	**NDE & NDT of Civil Infrastructure, Structural Engineering and Materials** OC 297 - PAUT and ToFD performance demonstration on HDPE joints Ludovic Pinier	**Additive Manufacturing** OC 106 - Investigation of the Melting Process in the Hot End of a Fused Filament Fabrication 3D Printer by Means of X-Ray Computed Tomography Julian Ehrler	**Numerical Simulation, Modeling and Data Processing** OC 407 - Simulation of Eddy Current Rail Testing Data for Neural Networks Alexander Friedrich
11:30 - 11:50	**Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)** OC 185 - Experimental analysis of planar/volumetric defects in ultrasonics NDT: Standardization of evaluation metrics using symbiosis of TOFD and TR-NEWS methods Serge Dos Santos	**NDT of Composites** OC 401 - Inspection benchmarking of Fibre Reinforced Polymeric Composites produced by Additive Manufacturing Miguel A. Machado	**NDE & NDT of Civil Infrastructure, Structural Engineering and Materials** OC 383 - Material Characterisation of Polyamide using Fluidic Oscillator as a Frequency Modulated Air-Coupled Ultrasonic Transducer Viswa Ratnasri Sunkavalli	**Additive Manufacturing** OC 166 - In-process Non-Destructive Evaluation of Wire + Arc Additive Manufacture Components Using Ultrasound High-Temperature Dry-Coupled Roller-Probe Rastislav Zimermann	**Numerical Simulation, Modeling and Data Processing** OC 34 - Formulation of a Mechanical Stress Dependent Macroscopic Magnetic Model for Incremental Permeability Simulation Patrick Lombard
11:50 - 12:10	**Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)** OC 344 - Robot-ready spot- and seam weld testing based on laser excitation and air-coupled detection of ultrasound Josef Pörnbacher	**NDT of Composites** OC 54 - Multi-domain contactless NDI approach: Data fusion of structural light scanning with thermography and shearography Patrick Jansen	**NDE & NDT of Civil Infrastructure, Structural Engineering and Materials** OC 384 - Thermal stress opening of closed cracks with local cooling on the cracked surface Arthur Perrin	**NDT Industry 4.0** OC 83 - Monitoring Barkhausen noise measurements to detect and reduce grinding burn and case depth defects in manufactured parts Kizkitza Gurruchaga	**Numerical Simulation, Modeling and Data Processing** OC 368 - A Physics-informed Neural Network for Pulsed Thermography-Based Defect Detection and Parameter Estimation Yuan Yao

12:10 - 12:30	**Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)** OC 45 - Tensile properties estimation of aluminum alloys using deep learning-based ultrasonic testing Kyung-young Jhang	**NDT of Composites** OC 284 - Automated woven background removal for enhanced infrared thermographic inspection of composites Gaétan Poelman	**NDE & NDT of Civil Infrastructure, Structural Engineering and Materials** OC 389 - The importance of material guiding in the reliability of rotary UT testing of tubes - a practical approach to characterize testing equipment Klaus Dickmann	**NDT Industry 4.0** OC 146 - A Machine Learning Based-Guided Wave Approach for Damage Detection and Assessment in Composite Overwrapped Pressure Vessels Amir Charmi	**Numerical Simulation, Modeling and Data Processing** OC 204 - Spatial resolution in photothermal and photoacoustic imaging Peter Burgholzer
12:30 - 12:50	**Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)** OC 380 - A study on the nonlinear correlation between viscoelasticity and guided ultrasound Younho Cho	**NDT of Composites** OC 27 - Porosity in Carbon Fiber laminate part. Porosity coupons for the evaluation of the percentage voids volume. Valter Capitani	**NDE & NDT of Civil Infrastructure, Structural Engineering and Materials** OC 409 - Modern corrosion mapping of storage tank bottoms – notable advancements in critical zone coverage, inspection efficiency and data integrity. Andrew Simpson	**NDT Industry 4.0** OC 190 - Laser ultrasonics for online monitoring of microstructures in the hot strip mill Mikael Malmström	**Numerical Simulation, Modeling and Data Processing** OC 265 - A WebGPU-based acoustic wave simulator for ultrasound NDT Thiago A. R. Passarin
12:50 - 14:10	**LUNCH**				
14:10 - 14:30	**Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)** OC 346 - Self-calibrating SAFT algorithm for the inspection of electronic devices using scanning acoustic microscopy Mario Wolf	**NDT of Composites** OC 56 - Computed tomography investigations of 3D aluminum - GMT hybrid profiles manufactured by compression molding Manel Ellouz	**NDE & NDT of Civil Infrastructure, Structural Engineering and Materials** OC 414 - Quantitative analysis of delaminations by means of lock-in infrared thermography Javier Rodríguez-Aseguinolaza	**NDT Industry 4.0** OC 195 - Using DICONDE for NDT Data Fusion Geo Jacob	**Numerical Simulation, Modeling and Data Processing** OC 263 - Using Perfectly Matched Layer in a GPU simulation of ultrasound NDT Thiago A. R. Passarin
14:30 - 14:50	**Biomedical Technology** OC 85 - Modelling of an ultrasound-based system for cataract detection and classification Mário Santos	**NDT of Composites** OC 243 - Defect-aware Super-resolution Thermography by Adversarial Learning Cheng Liangliang	**Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)** OC 12 - Working Smart Using Wireless UT Sensors for Asset Integrity Monitoring Steve Strachan	**NDT Industry 4.0** OC 92 - Reduction of rejects by combining data from the casting process and automatic X-ray inspection Thomas Stocker	**Numerical Simulation, Modeling and Data Processing** OC 293 - Determining ultrasonic propagation effective properties in complex heterogeneous media through microstructure-scale simulation Vincent Dorval
14:50 - 15:10	**Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)** OC 352 - Visualization of wave modes generated by electromagnetic acoustic transducers with the photoelastic imager Michael Kaack	**NDT of Composites** OC 309 - RoboCT - Robot based Micro-CT of full size Composite Aerostructures Wolfgang Holub	**Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)** OC 241 - Self-sensing metallic material based on piezoelectric particles Pedro Ferreira	**NDT Industry 4.0** OC 6 - In-situ microstructure monitoring during tempering of quenched AISI4340 steels using a high temperature electromagnetic sensor Fanfu Wu	**Numerical Simulation, Modeling and Data Processing** OC 26 - Simulation of wave propagation in austenitic stainless steel welds with solidification structure predicted by Cellular Automaton method Shan Lin
15:10 - 15:30	**Guided Waves** OC 342 - A study on the wave propagation on weld joints by the use of feature-guided wave mixing Jaesun Lee	**NDT of Composites** OC 361 - X-ray Computed Tomography Inspection of Novel Ceramic Matrix Composites Nick Brierley	Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis) OC 123 - Identification of overloads on splined shafts by means of eddy current testing technology René Gansel	**NDT Industry 4.0** OC 1 - On the use of inline phase transformation sensors in a hot strip mill: a case study Haibing Yang	**Numerical Simulation, Modeling and Data Processing** OC 8 - 3D HYBRID MODELING FOR THE ULTRASONIC PHASED ARRAY INSPECTION OF POROSITY IN HEAVY PLATES: SIMULATION AND EXPERIMENTAL VALIDATION Sanjeevareddy Kokoori
15:30 - 15:50	**Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)** OC 437 - IN-SERVICE OIL REFINERIES STORAGE TANK INSPECTION WITH GUIDED WAVES. Levente Bazsanyi	**NDT of Composites** OC 39 - NDT & METROLOGY – Improving Efficiency in Aerospace Manufacturing utilizing the Multi-Modality Approach Thomas Gramberger	**Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)** OC 66 - A low-cost ultrasonic array for long-term and high-resolution localised monitoring Xiaoyu Sun	**NDT Industry 4.0** OC 19 - HIGH TEMPERATURE CHARACTERISATION OF THE STIFFNESS MATRIX OF DIFFERENT STEELS Arno Volker	**Guided Waves** OC 234 - Excitation and reception of higher order guided Lamb waves in sheet type composite structures using phased air-coupled ultrasonic arrays Justina Sestoke
15:50 - 16:10	**Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)** OC 253 - Detection of barely visible impact damage in composite plates using non-linear pump-probe technique Guillemette Ribay	**NDT of Composites** OC 288 - Developing in-line inductive probes for carbon fibre composite manufacturing Robert Hughes	**Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)** OC 101 - Experimental evidence of spin electron magnetic moment vibration activated with the magnetic field and monitored by acoustic emission Giuseppe Nardoni	#N/D	**Numerical Simulation, Modeling and Data Processing** OC 225 - Comparison of grain structure models for wave propagation analysis in centrifugally cast stainless steel Masaki Nagai
16:10 - 16:40	**COFFEE-BREAK**				

16:40 - 17:00	**Guided Waves** OC 371 - Deep learning algorithms for design of periodic structures and dispersion curves calculation Kseniia Barashok	**Microwave, Terahertz, and Infrared** OC 73 - Non-destructive testing of fiber-reinforced composites by terahertz method Waldemar Swiderski	**Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)** OC 126 - Infrared Thermography testing during the welding process Sébastien Saint Yves	**NDT Industry 4.0** OC 111 - Automated Spot Weld Testing using a Smart Robotic System York Oberdoerfer	**Numerical Simulation, Modeling and Data Processing** OC 298 - AI-based and model assisted diagnostic for ultrasonic TFM weld inspection Stéphane Le Berre
17:00 - 17:20	**Guided Waves** OC 214 - Guided Wave-based Structural Health Monitoring for a Composite Aircraft Fuselage under Mechanical Load Maria Moix-Bonet	**Microwave, Terahertz, and Infrared** OC 108 - Improvement of 3D-Active Thermography by using Artificial Intelligence Marc Kreutzbruck	**Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)** OC 147 - Quantitative visual vibrometry for defect detection. Lucy Dougill	**NDT Industry 4.0** OC 215 - Easy to go and innovative validation process using the spot weld inspection system PHAsis and related software Philipp Poltersdorf	**Numerical Simulation, Modeling and Data Processing** OC 338 - Automated honeycomb detection during Impact Echo inspections using AI trained by simulation data Fabian Dethof
17:20 - 17:40	**Guided Waves** OC 306 - Passive guided wave tomography for monitoring corrosion in pipes Arnaud Recoquillay	**Microwave, Terahertz, and Infrared** OC 207 - Combing radar and ultrasound imaging for surface echo compensation and augmented visibility of interior structures in NDT applications Ingrid Ullmann	**Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)** OC 231 - Vibrational NDT with Under-sampled Data through Physics-informed Neural Networks Saeid Hedayatrasa	**NDT Industry 4.0** OC 348 - FebUS - Development and application of the latest technologies in the UT-NDT field Damiano Sallemi	**Numerical Simulation, Modeling and Data Processing** OC 450 - THICKNESS MEASUREMENT FOR METALLIC LAMINATES: AN ACCURATE METHOD FOR INDUSTRIAL APPLICATIONS Antonello Tamburrino
17:40 - 18:00	**Guided Waves** OC 328 - 24/7 Large Area Corrosion Monitoring Thomas Voght	**Microwave, Terahertz, and Infrared** OC 41 - Some practical NDE and QC Applications of Time Domain Terahertz Technology Joe Buckley	**Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)** OC 247 - Sensitivity study of tuned Lamb wave excitation with an embedded Lead Zirconate Titanate transducer in composite laminates Nina Kergosien	**NDT Industry 4.0** OC 370 - Knowledge sharing as a central idea of NDT 4.0 Tamara Diederichs	**Numerical Simulation, Modeling and Data Processing** OC 97 - Custom Transient Finite Element Method and Ray Tracing Hybridization Strategies for Ultrasonic Testing Modelling Edouard Demaldent
18:00 - 18:20	**Guided Waves** OC 327 - Detection and Measurement of Pitting Corrosion using Short Range Guided Wave Scanning Sam Horne	**Microwave, Terahertz, and Infrared** OC 25 - Field Applications for Multi-Frequency Microwave Imaging Terry Haigler	**Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)** OC 280 - Damage Monitoring of Buried Pipelines under Harsh Noise Environment using Low Frequency Acoustic Emission Analysis Sun-Ho Lee	**NDT Industry 4.0** OC 188 - NDE 4.0 Roadmap for Ultrasonic Nonlinear Imaging within Industry 4.0: the importance of prescriptive Signal, Image and Data Analysis Serge Dos Santos	**NDT of Composites** OC 377 - Modelling low-frequency vibration response and defect detection in homogeneous solids and honeycomb composite panels Joshua Aigbotsua

DAY 3 - WEDNESDAY, 5 JULY 2023

05-Jul-23	SESSION				
TIME	**ROOM 2**	**ROOM 3**	**ROOM 6**	**ROOM 8**	**ROOM 1.08**
09:00 - 09:20	**Numerical Simulation, Modeling and Data Processing** OC 157 - A generic numerical solver for modeling the influence of stress conditions on guided wave propagation for SHM applications André Dalmora	**ACADEMIA INTERNATIONAL RESEARCH DAY** (check detailed programme below - from 09:00 to 17:10)	**Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)** OC 448 - SHM of wire- breakage in concrete bridges by Acoustic Emission Technique Horst Trattnig	**NDT Industry 4.0** OC 140 - Platform for ultrasonic data management and evaluation Iratxe Aizpurua	**Oil & Gas** OC 62 - Development of HOIS guidance for ultrasonic NDT for non-intrusive inspection at elevated temperatures Helen Peramatzis
09:20 - 09:40	**Guided Waves** OC 436 - Lamb Wave Mode Conversion Analysis for Crack Assessment Artur Ribeiro		**Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)** OC 416 - Automatized Scaling Monitoring in Pipelines with Acoustic Resonance Testing Isabelle Stüwe	**NDT Industry 4.0** OC 171 - Automated adaptive TFM method for gas turbine testing in NDE 4.0 Christian Hassenstein	**Oil & Gas** OC 110 - Field inspection of steel pipes using automatic UT Raphaël Michel
09:40 - 10:00	**Guided Waves** OC 177 - Influence of Environmental and Operational Variation on Reliability Assessment of Guided Wave-based Structure Health Monitoring System on a Pipeline Structure Ahmed Bayoumi		**Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)** OC 226 - Frequency Steerable Acoustic Transducers for Guided Waves-based Structural Health Monitoring Masoud Mohammadgholiha	**NDT Industry 4.0** OC 335 - Transforming Ultrasonic Inspection Data Management through Cloud-Based Solutions André Lamarre	**Oil & Gas** OC 124 - Ultrasonic inspection of “shaped pipes” Fabien LEFEVRE

10:00 - 10:20	**Guided Waves** OC 275 - A Realistic 'digital twin' for guided wave SHM of pipelines Panpan Xu		**Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)** OC 206 - Acoustic non-destructive testing of UAV´s propellers during predeparture and post-flight checks Maria Soria Gomez	**NDT Industry 4.0** OC 35 - Production Integrated CT Inspection Process Alexander Suppes	**Oil & Gas** OC 264 - Virtual encoder: a two-dimension visual odometer for NDT Thiago A. R. Passarin
10:20 - 10:40	**Guided Waves** OC 334 - Development of a digital twin for generating realistic ultrasonic guided wave signals Vivek Nerlikar		**Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)** OC 415 - An Acoustic Emission IoT Device for Wind Turbine Rotor Blade Condition Monitoring Valery Godinez-Azcuaga	**NDT Industry 4.0** OC 175 - Magneto-Optic Screening Technology for Integrity Monitoring of Pipelines Carlos Gouveia	**Oil & Gas** OC 356 - Detection and Characterisation of Hydrogen-Induced Cracking using ultrasonic NDT inspection techniques Peter Merck
10:40 - 11:10	**COFFEE-BREAK**				
11:10 - 11:30	**Guided Waves** OC 17 - Impact localization in composite structures with guided wave and 1D convolutional neural network Bo Feng	**ACADEMIA INTERNATIONAL RESEARCH DAY** (check detailed programme below - from 09:00 to 17:10)	**Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)** OC174 - NDE & Sensing Solutions for Pipeline Structural Health Monitoring Carlos Gouveia	**NDT Industry 4.0** OC 134 - Numerical study of the Line Scan InfraRed Thermography (LST-IR) to optimize the inspection of aircraft structures Ludovic Gaverina	**Oil & Gas** OC 255 - Evaluation and Simulation of HTHA Damaged Specimen using UT Advanced Techniques Bastien Clausse
11:30 - 11:50	**Guided Waves** OC 154 - Guided waves defect interaction coefficients obtained through image-based models Daniel Lozano		**Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)** OC 294 - Guided waves based SHM system for rail monitoring and its environmental impact Bastien Chapuis	**NDT Industry 4.0** OC 283 - Automatic defect detection in fiber-reinforced polymer matrix composites using thermographic vision data Nuno Mendes	**Oil & Gas** OC 369 - Phased Array Ultrasonic Testing for Inspection of LNG Storage Tank Soonho Won
11:50 - 12:10	**Guided Waves** OC 159 - On the development of a model-assisted design procedure of guided wave-based SHM systems Enes SAVLI		**Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)** OC 299 - 24/7 monitoring on metallic pressure equipment, storage tanks and infrastructure components with acoustic emission Gerald Lackner	**NDT Industry 4.0** OC 181 - Applications of Deep Learning in NDE Ryan Scott	**Oil & Gas** OC 202 - Latest Developments in the Hardspot Inspection of heavy plates Gerald Schneibel
12:10 - 12:30	**Numerical Simulation, Modeling and Data Processing** OC 435 - Detection of flaws in austenitic stainless steel plate using eddy current testing Helena Ramos		**Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)** OC 410 - CORROSION BASED DEFECT DETECTION AND CLASIFICATION IN PIPE WALL USING MULTIPLE HIGH ORDER ULTRASONIC GUIDED WAVE MODES Donatas Cirtautas	**NDT Industry 4.0** OC 396 - Automatic defect recognition on parts after MPI and FPI Radek Salac	**Oil & Gas** OC 438 - Low-cost tool for identifying illegal tapping used for fuel theft Lucas Braga Campos
12:30 - 12:50	**Numerical Simulation, Modeling and Data Processing** OC 434 - Leveraging Signal Correlation for a Multi-variable Model Assisted PoD of Flaws in Eddy Current NDT Artur Ribeiro		**Transportation (Railway, Automotive, Marin, Aerospace)** OC 28 - Reliable detection of stick welds at resistance spot welding Christian Mathiszik	**NDT Industry 4.0** OC 184 - An analysis of how a software platform can achieve complete digital transformation using Radiographic Testing as an example Lea Köhler	**Oil & Gas** OC 440 - Development of Non-destructive Testing Method for Tube Inspection in Fin-Fan Coolers in Kazakhstan's Oil/Gas, Chemical and Power Industries. John Hansen
12:50 - 14:10	**LUNCH**				
14:10 - 14:30	**Guided Waves** OC 158 - Addressing non-uniqueness for the tomographic reconstruction of wall thickness loss in pipelines. Emiel Hassefras	**ACADEMIA INTERNATIONAL RESEARCH DAY** (check detailed programme below - from 09:00 to 17:10)	**Transportation (Railway, Automotive, Marin, Aerospace)** OC 292 - Adaptive ultrasonic rail wheel testing system utilizing customized data processing Thomas Würschig	**NDT Industry 4.0** OC 459 - NDE and Deep Learning: Fashion Trend or the Future? Roman Maev	**Oil & Gas** OC 261 - A data-driven method for the correction of optical distortions of depth cameras in immersion NDT Thiago A. R. Passarin
14:30 - 14:50	**Guided Waves** OC 193 - Numerical Assessment of Guided Wave Tomography in a Pipe Bend Based on Full Waveform Inversion Carlos Omar Rasgado Moreno		**Transportation (Railway, Automotive, Marin, Aerospace)** OC 72 - Innovative concept enables higher sensitivities in ultrasonic testing of railroad wheels Andreas Knam	**NDT Industry 4.0** OC 303 - Strategy for NDTE education at universities in France Serge Dos Santos	**Oil & Gas** OC 330 - Reducing False Calls in HTHA Inspection through Phase Coherence Imaging (PCI) Florin Turcu

14:50 - 15:10	**Guided Waves** OC 208 - Enhancement and comparison of tomographic reconstruction images in plate-like structures of aircrafts for SHM application using guided waves Aadhik Asokkumar		**Transportation (Railway, Automotive, Marin, Aerospace)** OC 203 - Advanced 3D-TFM Ultrasonic Spot-Weld Inspection Tobias Bruch	**NDT Industry 4.0** OC 287 - Advanced machine learning for dissimilar metal weld phased array ultrasonic inspection Tuomas Koskinen	**Oil & Gas** OC 191 - Applying Artificial Intelligence (AI) in Digital Radiography Lennart Schulenburg
15:10 - 15:30	**Guided Waves** OC 249 - Damage imaging and wavenumber mapping for inspection of bonded CFRP plates using ultrasonic guided waves Mohsen Barzegar		**Transportation (Railway, Automotive, Marin, Aerospace)** OC 229 - Assessment of residual stresses in railway rails using ultrasonic and Barkhausen noise techniques Young-In Hwang	**NDT Industry 4.0** OC 192 - NDE 4.0 – Digital Transformation of NDE Lennart Schulenburg	**Oil & Gas** OC 296 - Performance demonstration of AUT Pipeline girth welds using simulation and the new CIVA AUT Pipeline software Stéphane Le Berre
15:30 - 15:50	**Guided Waves** OC 286 - Inspection of CFRP Aircraft Components using Guided Wavefield Imaging in Wavenumber-Frequency domain Mathias Kersemans		**Transportation (Railway, Automotive, Marin, Aerospace)** OC 250 - In-Service Ultrasonic Wheel Inspection thought beyond - New Generation with Focus on improved Ergonomics, Digitalization and Operator Support Benedikt von Kirchbach	**NDT Industry 4.0** OC 364 - Unified NDT Inspection Software platform to the service of NDE community Patrick Huot	#N/D
15:50 - 16:10	**Guided Waves** OC 343 - The use of segmented Magneto-strictive tools for Medium Range Ultrasonic Inspection of pipelines Andrew Simpson		**Transportation (Railway, Automotive, Marin, Aerospace)** OC 82 - Scanning pulse phase thermography for surface defect detection in manganese steel turnout frogs Christoph Tuschl	**NDT Industry 4.0** OC 394 - Magnetic crawler for welds Visual Testing, based on 3D profilometry and 2D image processing Marco Induti	#N/D
16:10 - 16:40	**COFFEE-BREAK**				
16:40 - 17:00	**Guided Waves** OC 183 - Modelling guided wave reflection from defects in pipes - an integrated approach Abdul Mateen Qadri	**ACADEMIA INTERNATIONAL RESEARCH DAY** (check detailed programme below - from 09:00 to 17:10)	**Transportation (Railway, Automotive, Marin, Aerospace)** OC 419 - Experimental evaluation of metallic ropes magnetisation under magneto-inductive testing Aldo Canova	**NDT Industry 4.0** OC 395 - The AutosonicTM, a system for the full automatic inspection of seamless steel and aluminum gas cylinders industry 4.0 ready. Luca Scaccabarozzi	#N/D
17:00 - 17:20	**Guided Waves** OC 235 - Data-Driven Remaining Useful Life Prognostic for Aeronautical Composite Structures based on Guided Waves Ferda Cansu GÜL		**Transportation (Railway, Automotive, Marin, Aerospace)** OC 350 - How to Reach 100% Inspection Coverage of Aeroengine Fan Blades with a High Probability of Detection Etienne Grondin	**NDT Industry 4.0** OC 431 - Data processing to analyze health state in X-ray modules Pascal Corbat	#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	**GALA DINNER**				

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

05-Jul-23 TIME	ROOM 2	ROOM 3	ROOM 6	ROOM 8	ROOM 1.08
09:00	x	**FRONTIERS IN NDT**	x	x	x
09:00 - 09:10	x	**Opening and Welcome** Peter Trampus President of Academia NDT International, Hungary	x	x	x
09:10 - 09:50	x	**NDE and Deep Learning: Fashion Trend or the Future?** Keynote Presentation - Roman Gr. Maev University of Windsor, Canada	x	x	x

09:50 - 10:20	x	**The perspective of Academia NDT International** Peter Trampus President of Academia NDT International, Hungary	x	x	x
10:20 - 10:40	x	**Experimental evidence of the spin magnetic moment of electron activated by the magnetic field and monitored by acoustic emission** Giuseppe Nardoni, N. Fallahi, P. Nardoni I&T Nardoni Institute, Italy	x	x	x
10:40 - 11:10	**COFFEE-BREAK**				
11:10	x	**INTERNATIONAL FORUM ON NDT EDUCATION AT UNIVERSITIES** Joint meeting of Academia NDT International and ICNDT WG 3	x	x	x
11:10 - 11:20	x	**Opening and Welcome** Younho Cho President of WCNDT 2020 and Chairman of WG 3 of ICNDT, South Korea	x	x	x
11:20 - 11:50	x	**NDT Integrity Engineering – The Feasible Curriculum** Keynote presentation - Peter Trampus 1, Vjera Krstelj 2 1 President of Academia NDT International, Hungary 2 President of Croatian Engineering Association, Croatia	x	x	x
11:50 - 12:10	x	**Current Status and Challenges of NDE Education at Academic Institutions in the U.S.A.** Reza Zoughi Center for Nondestructive Evaluation (CNDE), IOWA State University, U.S.A.	x	x	x
12:10 - 12:30	x	**The UK Research Centre for NDE (RCNDE) – Twenty Years of Delivering Value to Industry** Colin Brett RCNDE, United Kingdom	x	x	x
12:30 - 12:50	x	**General Education and Training of NDT Personnel, including NDT Education at Universities in South Africa** Manfred Johannes Immediate Past President of SAINT, South Africa	x	x	x
12:50 - 14:10	**LUNCH**				
14:10 - 14:30	x	**Experience with an International NDT Master Course in view of Research and Development** Uwe Ewert 1, Viktor Lyamkin 2, Christian Boller 1, 3 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	**Strategy for NDTE Education at Universities in France** Philippe Duvauchelle 1, Rachid El-Guerjouma 2, Serge Dos Santos 3 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	**The Role of ASNT in Supporting NDT Education and Research in the USA** Shant Kenderian The Aerospace Corporation, ASNT Engineering Council, U.S.A.	x	x	x
15:10 - 15:30	x	**Strategy for NDT Education at Universities in India** Krishnan Balasubramaniam IIT, India	x	x	x
15:30 - 15:50	x	**Development and Practical Exploration of NDT Education at Universities in China** Yongshun Xiao Tsinghua University, China	x	x	x
15:50 - 16:10	x	**Strategy for NDE Education at Universities in UK: An Integrated Education Programme for NDT Professionals** David Gilbert BINDT, United Kingdom	x	x	x
16:10 - 16:40	**COFFEE-BREAK**				
16:40 - 17:10	x	**Panel Discussion** Shant Kenderian, Younho Cho, Peter Trampus 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	**GALA DINNER**				

DAY 4 - THURSDAY, 6 JULY 2023

06-Jul-23	SESSION				
TIME	**ROOM 2**	**ROOM 3**	**ROOM 6**	**ROOM 8**	**ROOM 1.08**
09:00 - 09:20	**Guided Waves** OC 270 - Use of periodic structures for mode transformation in cylindrical objects I Boris	**Materials Characterization** OC 3 - HIGH TEMPERATURE MAGNETIC PROPERTIES OF SELECTED STEEL GRADES John Wilson	**New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)** OC 22 - Automatic scan planning for CT scans Frank Sukowski	**NDT Industry 4.0** OC 120 - A path towards digital industry: Airblade grains detection by directional reflectance technique Clément Remacha	**Energy Generation (Fossil, Nuclear and Regenerative Power Generation)** OC 245 - Development and adaptation of Ultrasonic system for Windblades inspection using Unmanned Aerial Vehicles Sergio González
09:20 - 09:40	**Guided Waves** OC 315 - APPLICATIONS OF LINEAR SCANNING MAGNETOSTRICTIVE TRANSDUCERS (MST) FOR FINDING OF HARD TO DETECT ANOMALIES IN STRUCTURAL COMPONENTS Sergey Vinogradov	**Materials Characterization** OC 105 - Non-destructive magnetic evaluation of microstructure and mechanical properties of advanced high-strength steels Ane Martinez-de-Guerenu	**New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)** OC 23 - Process safe automatic evaluation for fast Inline-CT systems Tobias Schön	**NDT Industry 4.0** OC 53 - Automating 'Image-Based Simulation' with machine learning for virtual quality assurance in industrial applications Llion Evans	**Energy Generation (Fossil, Nuclear and Regenerative Power Generation)** OC 79 - Automated analysis of Baffle Bolts Javier De La Morena
09:40 - 10:00	**Ultrasound Phased Arrays** OC 49 - The effect of ultrasound wave path estimation to defect characterization capability in half-skip total focusing method Håkan Wirdelius	**Materials Characterization** OC 132 - Heat treatment and residual stress characterization by electromagnetic non-destructive methods Hélène Petitpré	**New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)** OC 33 - Unsupervised deep learning for defect detection on CT parts using simulated data Virginia Florian	**NDT Industry 4.0** OC 129 - Guided wave ultrasonic feature determination in Type IV composite overwrapped pressure vessels towards the digital twin Bengisu Yilmaz	**Energy Generation (Fossil, Nuclear and Regenerative Power Generation)** OC 24 - Power Plant Condition Assessment through Engineering, Materials Science, and NDT 4.0 Terry Haigler
10:00 - 10:20	**Ultrasound Phased Arrays** OC 63 - Development of 1024-elements 2D matrix array transducer for high-resolution 3D phased-array imaging in NDE applications Yoshikazu Ohara	**Materials Characterization** OC 161 - Magnetic NDT of the Microstructure of Steels for Oil and Gas Applications Alasdair Regan	**New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)** OC 64 - Optimization of Computed Tomography Data Acquisition by Means of Quantum Computing Theobald Fuchs	**Robotics and Automation** OC 169 - Strategies for pipeline inspection using mobile robots Jie Zhang	**Energy Generation (Fossil, Nuclear and Regenerative Power Generation)** OC 282 - Eddy current response from copper tube extrusion laps compared to artificial notches Barend Van Den Bos

10:20 - 10:40	**Ultrasound Phased Arrays** OC 262 - Full Waveform Inversion for NDT using ultrasonic linear arrays Thiago A. R. Passarin	**Materials Characterization** OC 172 - Advances in Automated Eddy-Current Characterisation of Carbon Fibre Composites Qiuji Yi	**New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)** OC 29 - Inspection of vaporizers and recuperators in Binary Cycle Geo Thermal Power plant Vignesh Sivanandam	**Robotics and Automation** OC 413 - DEKRA Robotized Inspection of Hazardous Areas Oliver London	**Energy Generation (Fossil, Nuclear and Regenerative Power Generation)** OC 329 - Investigation on Potential Benefits of Phase Coherence Imaging in Detection and Sizing of Stress Corrosion Cracking in Austenitic Materials Used in the Nuclear Industry Florin Turcu
10:40 - 11:10	**COFFEE-BREAK**				
11:10 - 11:30	**Ultrasound Phased Arrays** OC 267 - Assessing the roughness of surfaces with ultrasound arrays Thiago A. R. Passarin	**Materials Characterization** OC 385 - Can Martensitic Phase Transformation Measured by Magnetic Methods be an Indicator of Fatigue Damage in Austenitic Steel at Elevated Temperature and Thermo-Mechanical Loading? Viktor Lyamkin	**New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)** OC 362 - Merged Mode TFM with Mode Conversion Artifact Suppression Patrick Huot	**Robotics and Automation** OC 7 - Quantitative Measurement and Evaluation of High-Resolution Ultrasonic Sound Fields using a Novel Automated Ultrasonic Immersion Scanner Sanjeevareddy Kokoori	**Art & Cultural Heritage** OC 20 - Ten+ Years of Experience in Digitization of Cultural Heritage by Means of Industrial X-ray Computed Tomography: A Summary Theobald Fuchs
11:30 - 11:50	**Ultrasound Phased Arrays** OC 43 - Low Frequency GFRP Imaging with Variable Aperture TFM Renato Nogueira	**Materials Characterization** OC 402 - Microchannels produced by Friction Stir Channeling: characterisation with non-destructive testing techniques Miguel A. Machado	**New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)** OC 100 - Innovative NDT Technique, for a More Productive Surface Damage Inspection Francois Lachance	**Robotics and Automation** OC 114 - Innovations in ultrasonic inspection of forged rings Tobias Gautzsch	**Art & Cultural Heritage** OC 87 - Non-Destructive Examination of Metallic Idols and Statues in Religious Institutions - A Case Study Tejas Ingale
11:50 - 12:10	**Ultrasound Phased Arrays** OC 390 - Total Focusing Method (TFM) and Phase Coherence Imaging (PCI) applied to various industrial cases Paul Hillman	**Materials Characterization** OC 125 - Reliable non-destructive detection and characterization of material degradation caused by high-temperature corrosion Sebastian Barton	**New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)** OC 131 - Novel concepts for automatic inspection of railway tracks Stephan Falter	**Robotics and Automation** OC 135 - AUTOMATED MULTI-NDT METHOD Jules Recolin	**Art & Cultural Heritage** OC 429 - Non-Destructive Testing of Artworks from the Artist Cy Twombly Juliana Berthold
12:10 - 12:30	**Ultrasound Phased Arrays** OC 398 - Total Focusing (TFM) for the Ultrasonic Testing (UT) of drawn arc stud welding Carlo Romito	**Materials Characterization** OC 461 - Visualization of stresses, properties and defects in steel components by means of intelligent magneto-optical sensor technology Lukas Lauck	**New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)** OC 291 - Thermographic detection of internal defects using photothermal super resolution reconstruction and 2D-structured illumination patterns Julien Lecompagnon	**Robotics and Automation** OC 227 - Autonomous Ultrasonic Disc inspection System Michael Bron	**Art & Cultural Heritage** OC 300 - Active thermography to look beneath the surface of a historic German aircraft Julia Frisch
12:30 - 12:50	**Ultrasound Phased Arrays** OC 432 - New Real-Time TFM in 1 shot Christophe Chollet	**Materials Characterization** OC 162 - Non-Destructive Determination of the Magnetic Properties of Ferritic Steel Strip and Plate Products by Open-Circuit Magnetic Measurement Alasdair Regan	**New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)** OC 278 - Visual color inspection with a hyperspectral camera: inline application for automotive parts production Eduardo Assunção	**Robotics and Automation** OC 360 - The use of Robotic Solutions for inspection of Unpiggable Pipelines Michel Bezemer	**Art & Cultural Heritage** OC 222 - Virtual reconstruction of some metal artifacts discovered at the Roman auxiliary fort of Cumidava using combined X-ray microtomography and microfluorescence Ion Tiseanu
12:50 - 14:10	**LUNCH**				
14:10 - 14:30	**Ultrasound Phased Arrays** OC 4 - Development and Validation Testing of High-Temperature Phased-Array UT Transducers and Wedges for Process Applications Steve Strachan	**Materials Characterization** OC 75 - Estimation of the stiffness tensor from Lamb wave velocity profiles measured on steel with different texture Arno Volker	**New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)** OC 46 - AI-based non-destructive weld seam testing in the field of passive thermography Patrick Kammel	**Robotics and Automation** OC 378 - A Freely Positionable Dual-Robot System for Automated NDT of Large Lightweight Structures Marc Kreutzbruck	
14:30 - 14:50	**Ultrasound Phased Arrays** OC 220 - Temperature and geometry impact on defect detection and sizing Pavel Mares	**Materials Characterization** OC 238 - Orthotropic stiffness characterization using guided wavefield data and machine learning Adil Han Orta	**New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)** OC 213 - Artificial Intelligence for Assisted Analysis of Eddy Current Data from Heat Exchangers with Non-Ferromagnetic Tubes Marco Michele Sisto	**Robotics and Automation** OC 10 - Nuclear RPV inspection with multiple ROV:s for shorter inspection time Peter Merck	

14:50 - 15:10	**Ultrasound Phased Arrays** OC 269 - Ultrasonic sectorial inspection in the presence of temperature gradients Thiago A. R. Passarin	**Materials Characterization** OC 374 - Study of the crystallization behaviour of phase change materials by in-situ X-ray computed tomography Jorge Martinez Garcia	**New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)** OC 65 - Digital radiography by counting photons: innovative solution for testing very thick parts Angela Peterzol	**Robotics and Automation** OC 139 - Novel automatic inspections Jose Luis Lanzagorta	
15:10 - 15:30	**Ultrasound Phased Arrays** OC 351 - Ultra-Fast Wall Remaining Thickness Measurements & Reporting Guillaume ITHURRALDE	**Materials Characterization** OC 299 - Layer thickness measurement of ceramic systems with a numerical model for flash thermography Julia Frisch	**New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)** OC 353 - Sub-second X-ray tomography using MetalJet X-ray sources Emil Espes	**Robotics and Automation** OC 366 - Automatic Methods for Ultrasonic Scanning Paths Generation MIchel Brassard	
15:30 - 15:50	**Ultrasound Phased Arrays** OC 170 - In-process Monitoring and Control of Multi-Pass Fusion Welding Using Phased Arrays Nina Sweeney	**Materials Characterization** OC 144 - Deep Learning Approach for Multi-Class Segmentation in Industrial CT-Data Tim Schanz	#N/D	**Robotics and Automation** OC 290 - Automated misalignment correction method for ultrasonic inspection of CFRP parts Alexandre Beausoleil	
15:50 - 16:10	**Ultrasound Phased Arrays** OC 218 - Detection of defects initiation in weld joints Pavel Mares	**Materials Characterization** OC 145 - Generative Synthesis of Defects in Industrial Computed Tomography Data Robin Tenscher-Philipp	#N/D	**Robotics and Automation** OC 219 - High-speed, multi-zone ultrasonic inspection of bar and wire stocks with an in-line phased array inspection system Thomas Würschig	
16:10 - 16:40	**COFFEE-BREAK**				
16:40 - 17:00	**Ultrasound Phased Arrays** OC 359 - On the Use of Asymmetrical DMA Probe Assemblies for PA UT Inspection of Tapered Dissimilar Metal Weld Configurations Paul Hillman	**Food & Agriculture** OC 363 - Monitoring of water distribution in meat upon freezing with X-ray computed tomography Philipp Schütz	**New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)** OC 449 - ELECTRICAL CONDUCTIVITY AND THICKNESS ESTIMATION BASED ON DIMENSION ANALYSIS IN EDDY CURRENT TESTING Antonello Tamburrino	**Qualification, certification, standards and training** OC 325 - Standard development for Eddy Current Arrays in lieu of Magnetic Particle Testing Casper Wassink	
17:00 - 17:20	**Ultrasound Phased Arrays** OC 372 - A High-Speed Ultrasound Full-Matrix Capture Acquisition System for Robotic Weld Inspection Marcin Lewandowski	**Materials Characterization** OC 276 - High-resolution imaging of magnesium feedstock material for Wire Arc Additive Manufacturing (WAAM) Sascha Senck	**New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)** OC 289 - Resonant Inductive Arrays for Non-Destructive Testing Applications Robert Hughes	**Qualification, certification, standards and training** OC 189 - Qualification and Certification of NDT Personnel in Civil Engineering (NDT-CE) Sascha Feistkorn	
17:20 - 17:40	**Ultrasound Phased Arrays** OC 104 - Towards a simplified verification of ultrasound phased array systems Benoit Dupont	**Materials Characterization** OC 80 - Monitoring crack tip position in Cracked Lap Shear specimens subjected to fatigue loading Michele Carboni	**New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)** OC 373 - Application of magnetic recording method to the non-destructive evaluation of ferromagnetic structures Tomasz Chady	**Qualification, certification, standards and training** OC 418 - The conversion from film to digital and the revision of ISO 17636-2, weld testing, with digital radiography Uwe Zscherpel	
17:40 - 18:00	**Ultrasound Phased Arrays** OC 442 - Robot-based spot weld inspection - almost couplant-free, imaging phased array based inspection with PHAsis, integrated and automated by ABB Robotics Carsten Köhler	**Materials Characterization** OC 37 - INFLUENCE OF BIAXIAL STRESS ON MAGNETIC BEHAVIOR OF HOT- ROLLED STEELS Olivier Hubert	**Guided Waves** OC 122 - Guided Waves Propagation in Composite Overwrapped Pressure Vessel Towards the Design of a Sensor Network for Structural Health Monitoring Samir Mustapha	**Qualification, certification, standards and training** OC 52 - Enhancing the NDE training at the light of the new technologies and market demands Rafael Martínez-Oña	
18:00 - 18:20	**Ultrasound Phased Arrays** OC 68 - Inspection for non-planar shaped welded joints of pipes using FMC ultrasonic technique Sho Yamaguchi	#N/D	#N/D	**NDT Reliability and Statistic** OC 272 - A POD approach by simulation of an industrial ultrasonic inspection Benoit Dupont	

DAY 5 - FRIDAY, 7 JULY 2023

07-Jul-23	SESSION				
TIME	ROOM 2	ROOM 3	ROOM 6	ROOM 8	ROOM 1.08

09:00 - 09:20	**Ultrasound Phased Arrays** OC 340 - Overview of NDT Array Techniques Applied to Inspection of Rolling Stock Giovanni Corti	**Materials Characterization** OC 44 - Development of AI based analysis tools for online monitoring of steel-making process Christophe Reboud	**Joint EFNDT-ICNDT Workshop**: Training, Qualification and Certification – the new 9712 and more	**NDT Reliability and Statistic** OC 143 - Comparison of hit/miss and 'â versus a' POD calculations for short surface cracks using inductive thermography Beate Oswald-Tranta	
09:20 - 09:40	**Ultrasound Phased Arrays** OC 268 - Parametric reconstruction of surfaces for ultrasound immersion imaging Thiago A. R. Passarin	**Materials Characterization** OC 48 - How the EU project "Online Microstructure Analytics" advances inline sensing of microstructure during steel manufacturing Frenk Van Den Berg		**NDT Reliability and Statistic** OC 266 - Reliability Analysis of Pipe Wall Thinning based on Quantification of Ultrasonic Testing Kantaro Ikeda	
09:40 - 10:00	**Ultrasound Phased Arrays** OC 71 - Automated inspection of heavy plates with phased-array based porosity testing Andreas Knam	**Materials Characterization** OC 38 - MAGNETOSTRICTIVE BEHAVIOR OF HOT-ROLLED STEELS Olivier Hubert		**NDT Reliability and Statistic** OC 426 - Inspectability and POD Investigation for Optical Solar Reflector Bonded Satellite Panels Utku Şahin	
10:00 - 10:20	**Ultrasound Phased Arrays** OC 295 - Automated IBEX crawler for PAUT inspection for in-service ferromagnetic assets Natalia Marcial	**Materials Characterization** OC 422 - EDDY CURRENT FALSE INDICATIONS IN AUSTENITIC STEEL AND TITANIUM ALLOYS HEAT EXCHANGER TUBES ACTIVATED BY STRESS VALENTYN UCHANIN		**NDT Reliability and Statistic** OC 281 - High energy Computed Tomography of high density alloys using a 6 MeV Linear Accelerator: detectability and use of Artificial Intelligence Fabio Esposito	
10:20 - 10:40	**Ultrasound Phased Arrays** OC 84 - Comparative study of advanced image reconstruction algorithms for complex arbitrary components Sumana Sumana	#N/D		#N/D	
10:40 - 11:10	**COFFEE-BREAK**				
11:10 - 11:30	**Ultrasound Phased Arrays** OC 99 - Ultrasonic Inspection for Complex Geometry Matt Chandler	#N/D	**Joint EFNDT-ICNDT Workshop**: Training, Qualification and Certification – the new 9712 and more	**NDT Reliability and Statistic** OC 216 - Introduction of a certification procedure for the acoustic response of reference reflectors for ultrasonic testing Thomas Würschig	
11:30 - 11:50	**Ultrasound Phased Arrays** OC 404 - Leveraging automated tools to achieve a new level of efficiency and performance for pipe girth weld inspection. Paul Hillman	#N/D		**NDT Reliability and Statistic** OC 21 - USING MODELLING AND METAMODELS FOR RELIABILITY STUDY IN NDE Fabrice Foucher	
11:50 - 12:10	**Ultrasound Phased Arrays** OC 121 - Time of flight fast approximation method for ultrasound sub-surface imaging Guillermo Cosarinsky	#N/D		#N/D	
12:10 - 12:30	**Ultrasound Phased Arrays** OC 251 - Innovative Instrument Platforms for Ultrasonic Inspections Johannes Buechler	#N/D		x	
12:30 - 13:30	x	x	x	**CLOSING CEREMONY**	x
13:30 - 14:30	**LUNCH**				
14:30	**CLOSING**				