DAY 1 - MONDAY, 3 JULY 2023

LISBON - PORTUGAL, 3-7 JULY 2023

	SESSION					
TIME	AUDITORIUM 1	AUDITORIUM 2	AUDITORIUM 3	AUDITORIUM 6	AUDITORIUM 8	ROOM 1.08
00 - 12:30	OPENING CEREMONY	X	X	X	Х	X
:30 - 14:10	LUNCH					
l:10 - 14:30	S1 - Additive Manufacturing	S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-	S12 - Surface Methods (MPI & PT)	S16 - NDE & NDT of Civil Infrastructure, Structural	S4 - NDT of Composites	#N/D
	OC103 - Defect Detection in Additively Manufactured	coupled, nonlinear)	OC32 - Bio Water Based Liquid Penetrants	Engineering and Materials	OC137 - Ultrasonic Inspection	
	Parts by Laser Ultrasound Tomography	OC421 - Multi-functional ultrasound	and Magnetics: a safer and cost-efficient	OC47 - Modelling Crystallographic Texture Evaluation	for aging monitoring of GFRP composites	
		phased array imaging	solution for the future	and Non-Destructive Measurement of Magnetic		
	Bernhard Reitinger			Anisotropy using an Electromagnetic Sensor in	<u>Marcella Grosso</u>	
		<u>Choon-su Park</u>	Michele Cevenini	Interstitial Free (If) Steels		
				Mohsen Aghadavoudi Jolfaei		
l:30 - 14:50	S1 - Additive Manufacturing	S7 - Ultrasound (EMAT, Laser Ultrasonics,	S12 - Surface Methods (MPI & PT)	S16 - NDE & NDT of Civil Infrastructure, Structural	S4 - NDT of Composites	#N/D
1.30 - 14.30	OC93 - Inspection of Additive manufacturing parts,	Air-coupled, nonlinear)	OC11 - Mechanized Dye Penetrant Internal	Engineering and Materials	OC18 - MEMS - sensor array for non-contact	#N/D
		OC130 - Phased array probes for air-coupled ultrasonic	Piping inspection system	OC61 - Active Infrared Thermography applied	ultrasonic composite panel inspection	
	study of Not solutions for WAAIW	testing based on cellular polymer	riping inspection system	for concrete structures inspection in	ditiasoffic composite parier inspection	
	Fabien Lefevre	testing based on cendial polymer	Peter Merck	Nuclear Power Plants	Arno Volker	
	<u>rabieii Leievie</u>	Mate Gaal	<u>reter Merck</u>	Nucleal Fower Flatics	AITIO VOIKEI	
		<u>iviate Gaar</u>		Javier De La Morena		
				Javier Be La Morena		
50 - 15:10	S1 - Additive Manufacturing	S7 - Ultrasound (EMAT, Laser Ultrasonics,	S12 - Surface Methods (MPI & PT)	S16 - NDE & NDT of Civil Infrastructure, Structural	S4 - NDT of Composites	#N/D
	OC212 - Online eddy current testing of	Air-coupled, nonlinear)	OC57 - UV-A LED's in fluorescent penetrant	Engineering and Materials	OC232 - Air-coupled Ultrasonic Inspection	
	PBF-LB/M parts using GMR sensor arrays	OC107 - Thermoacoustic phased-array radiators –	testing and magnetic particle testing	OC319 - Advanced Eddy Current Testing of	of Thermoplastic Composite Structures for Aerospace	
	during manufacturing	Theory, characteristics, and applications		Carbon Composites	Vehicles	
			<u>Jesko Klippstein</u>			
	<u>Matthias Pelkner</u>	<u>Daniel Hufschläger</u>		<u>Marie Rudolfova</u>	<u>Armin Huber</u>	
					20.000	
:10 - 15:30	S1 - Additive Manufacturing	S7 - Ultrasound (EMAT, Laser Ultrasonics,	S12 - Surface Methods (MPI & PT)	S16 - NDE & NDT of Civil Infrastructure, Structural	S4 - NDT of Composites	#N/D
	OC76 - Multi-physics data registration for	Air-coupled, nonlinear)	OC89 - Development of an Automatic magnetic	Engineering and Materials	OC246 - Ad-hoc solutions for ultrasonic inspection of	
	the improvement of Additive Manufacturing process	OC182 - Phased-Array Approach to Air-coupled	particle flaw detector System Using	OC445 - Validation through field data of	highly complex aircraft	
	control	Ultrasound with Resonant Defect Excitation	Deep Learning	LineCore, a lightweight Eddy-current sensor for	composite structures	
	litar dua Circala Datharra	Time a Daire di	Dejayla Nagata	the early detection of corrosion of ACSRs	Canaia Cana-flas	
	<u>Jitendra Singh Rathore</u>	<u>Timo Reindl</u>	<u>Daisuke Nagata</u>	Niceles Devilet	<u>Sergio González</u>	
				<u>Nicolas Pouliot</u>		
:30 - 15:50	S1 - Additive Manufacturing	S7 - Ultrasound (EMAT, Laser Ultrasonics,	S12 - Surface Methods (MPI & PT)	S16 - NDE & NDT of Civil Infrastructure, Structural	S4 - NDT of Composites	#N/D
.50 15.50	OC16 - INDUSTRIAL APPLICATION OF	Air-coupled, nonlinear)	OC358 - UV _ Irradiation in NDT: Quo vadis	Engineering and Materials	OC285 - Imaging of 3D Fiber Architecture in	, 2
	HIGH ENERGY CT	OC153 - Non-Destructive Testing of Battery Pouches		OC452 - Study on the nuclear method used in	Composites using Ultrasound Computed Tomography	
		with Imaging Ultrasonic Techniques	Thomas Schratt	earthworks quality control of civil infrastructures	composited asing contract compared volves,	
	<u>Eberhard Neuser</u>	qqq		,,	Mathias Kersemans	
	=====================================	Artur Szewieczek		<u>José Neves</u>		
50 - 16:10	S1 - Additive Manufacturing	S7 - Ultrasound (EMAT, Laser Ultrasonics,	S20 - Green & Echo Technology	S16 - NDE & NDT of Civil Infrastructure, Structural	S4 - NDT of Composites	#N/D
	OC271 - ADVANCED X-RAY COMPUTED TOMOGRAPHY	Air-coupled, nonlinear)	OC31 - Work safety in magnetic	Engineering and Materials	OC406 - UT data analysis steps for development	
	IN ADDITIVE MANUFACTURING		particle and penetrant testing	OC318 - Linear and Non-Linear Resonant Ultrasonic	of automated detection technique of bonding	
	,	OC70 - Estimating manufacturing parameters	particle and penetrant testing			
		OC70 - Estimating manufacturing parameters of additively manufactured 316L steel cubes	particle and perfectant testing	Testing for the Early Detection of	defects in multi-layered structures	
	Gerhard Zacher		Kersten Alward	Testing for the Early Detection of Alkali-Silica Reaction in Concrete	·	
		of additively manufactured 316L steel cubes using ultrasound fingerprinting	, ,	Alkali-Silica Reaction in Concrete	defects in multi-layered structures <u>Damira Smagulova</u>	
		of additively manufactured 316L steel cubes	, ,	•	·	
10 - 16:40	<u>Gerhard Zacher</u>	of additively manufactured 316L steel cubes using ultrasound fingerprinting	, ,	Alkali-Silica Reaction in Concrete	·	
		of additively manufactured 316L steel cubes using ultrasound fingerprinting <u>Shafaq Zia</u>	<u>Kersten Alward</u>	Alkali-Silica Reaction in Concrete	<u>Damira Smagulova</u>	#N/D
	Gerhard Zacher COFFEE-BREAK	of additively manufactured 316L steel cubes using ultrasound fingerprinting	, ,	Alkali-Silica Reaction in Concrete <u>Klayne Silva</u>	·	#N/D
	COFFEE-BREAK S1 - Additive Manufacturing OC228 - Non-contact assessment of porosity in metal	of additively manufactured 316L steel cubes using ultrasound fingerprinting Shafaq Zia S7 - Ultrasound (EMAT, Laser Ultrasonics,	<u>Kersten Alward</u>	Alkali-Silica Reaction in Concrete Klayne Silva S16 - NDE & NDT of Civil Infrastructure, Structural	Damira Smagulova S4 - NDT of Composites	#N/D
	Gerhard Zacher COFFEE-BREAK S1 - Additive Manufacturing	of additively manufactured 316L steel cubes using ultrasound fingerprinting Shafaq Zia S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)	<u>Kersten Alward</u>	Alkali-Silica Reaction in Concrete Klayne Silva S16 - NDE & NDT of Civil Infrastructure, Structural Engineering and Materials	S4 - NDT of Composites OC113 - Ultrasonic representation of photothermal	#N/D
	COFFEE-BREAK S1 - Additive Manufacturing OC228 - Non-contact assessment of porosity in metal	of additively manufactured 316L steel cubes using ultrasound fingerprinting Shafaq Zia S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear) OC211 - Ultrasonic C-scan imaging of damage	<u>Kersten Alward</u>	Alkali-Silica Reaction in Concrete Klayne Silva S16 - NDE & NDT of Civil Infrastructure, Structural Engineering and Materials OC444 - Ultrasonic Phased Array application for the	S4 - NDT of Composites OC113 - Ultrasonic representation of photothermal signals to localize and identify foreign object debris in	#N/D
	COFFEE-BREAK S1 - Additive Manufacturing OC228 - Non-contact assessment of porosity in metal 3D printed parts by vibration spectra	of additively manufactured 316L steel cubes using ultrasound fingerprinting Shafaq Zia S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear) OC211 - Ultrasonic C-scan imaging of damage	<u>Kersten Alward</u>	Alkali-Silica Reaction in Concrete Klayne Silva S16 - NDE & NDT of Civil Infrastructure, Structural Engineering and Materials OC444 - Ultrasonic Phased Array application for the	S4 - NDT of Composites OC113 - Ultrasonic representation of photothermal signals to localize and identify foreign object debris in	#N/D
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5:10 - 16:40 5:40 - 17:00	COFFEE-BREAK S1 - Additive Manufacturing OC228 - Non-contact assessment of porosity in metal 3D printed parts by vibration spectra	of additively manufactured 316L steel cubes using ultrasound fingerprinting Shafaq Zia S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear) OC211 - Ultrasonic C-scan imaging of damage in the quefrency domain	<u>Kersten Alward</u>	Alkali-Silica Reaction in Concrete Klayne Silva S16 - NDE & NDT of Civil Infrastructure, Structural Engineering and Materials OC444 - Ultrasonic Phased Array application for the detection of discrepancy on laser welding	S4 - NDT of Composites OC113 - Ultrasonic representation of photothermal signals to localize and identify foreign object debris in composite materials	#N/D
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:40 - 17:00	COFFEE-BREAK S1 - Additive Manufacturing OC228 - Non-contact assessment of porosity in metal 3D printed parts by vibration spectra Alexey Tatarinov S1 - Additive Manufacturing OC273 - NDT for additive manufacturing	of additively manufactured 316L steel cubes using ultrasound fingerprinting Shafaq Zia S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear) OC211 - Ultrasonic C-scan imaging of damage in the quefrency domain Mathias Kersemans S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)	Kersten Alward #N/D	S16 - NDE & NDT of Civil Infrastructure, Structural Engineering and Materials OC444 - Ultrasonic Phased Array application for the detection of discrepancy on laser welding Giuseppe Silipigni S16 - NDE & NDT of Civil Infrastructure, Structural Engineering and Materials	S4 - NDT of Composites OC113 - Ultrasonic representation of photothermal signals to localize and identify foreign object debris in composite materials Guenther Mayr S4 - NDT of Composites OC236 - Advances in the implementation of a UT	
:40 - 17:00	COFFEE-BREAK S1 - Additive Manufacturing OC228 - Non-contact assessment of porosity in metal 3D printed parts by vibration spectra Alexey Tatarinov S1 - Additive Manufacturing OC273 - NDT for additive manufacturing	of additively manufactured 316L steel cubes using ultrasound fingerprinting Shafaq Zia S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear) OC211 - Ultrasonic C-scan imaging of damage in the quefrency domain Mathias Kersemans S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear) OC375 - Automated echo separation in scanning	Kersten Alward #N/D	S16 - NDE & NDT of Civil Infrastructure, Structural Engineering and Materials OC444 - Ultrasonic Phased Array application for the detection of discrepancy on laser welding Giuseppe Silipigni S16 - NDE & NDT of Civil Infrastructure, Structural Engineering and Materials OC447 - Ultrasonic Pulse-Echo inspection of backfill	S4 - NDT of Composites OC113 - Ultrasonic representation of photothermal signals to localize and identify foreign object debris in composite materials Guenther Mayr S4 - NDT of Composites OC236 - Advances in the implementation of a UT contactless inspection system in the manufacturing	
:40 - 17:00	COFFEE-BREAK S1 - Additive Manufacturing OC228 - Non-contact assessment of porosity in metal 3D printed parts by vibration spectra Alexey Tatarinov S1 - Additive Manufacturing OC273 - NDT for additive manufacturing space hardware qualification	of additively manufactured 316L steel cubes using ultrasound fingerprinting Shafaq Zia S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear) OC211 - Ultrasonic C-scan imaging of damage in the quefrency domain Mathias Kersemans S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear) OC375 - Automated echo separation in scanning acoustic microscopy for testing multi-layered	Kersten Alward #N/D	S16 - NDE & NDT of Civil Infrastructure, Structural Engineering and Materials OC444 - Ultrasonic Phased Array application for the detection of discrepancy on laser welding Giuseppe Silipigni S16 - NDE & NDT of Civil Infrastructure, Structural Engineering and Materials OC447 - Ultrasonic Pulse-Echo inspection of backfill	S4 - NDT of Composites OC113 - Ultrasonic representation of photothermal signals to localize and identify foreign object debris in composite materials Guenther Mayr S4 - NDT of Composites OC236 - Advances in the implementation of a UT contactless inspection system in the manufacturing process of thermoplastic components for aeronautical	
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:40 - 17:00	COFFEE-BREAK S1 - Additive Manufacturing OC228 - Non-contact assessment of porosity in metal 3D printed parts by vibration spectra Alexey Tatarinov S1 - Additive Manufacturing OC273 - NDT for additive manufacturing space hardware qualification	of additively manufactured 316L steel cubes using ultrasound fingerprinting Shafaq Zia S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear) OC211 - Ultrasonic C-scan imaging of damage in the quefrency domain Mathias Kersemans S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear) OC375 - Automated echo separation in scanning acoustic microscopy for testing multi-layered electronic devices	Kersten Alward #N/D	S16 - NDE & NDT of Civil Infrastructure, Structural Engineering and Materials OC444 - Ultrasonic Phased Array application for the detection of discrepancy on laser welding Giuseppe Silipigni S16 - NDE & NDT of Civil Infrastructure, Structural Engineering and Materials OC447 - Ultrasonic Pulse-Echo inspection of backfill grout in segmental tunnel linings	S4 - NDT of Composites OC113 - Ultrasonic representation of photothermal signals to localize and identify foreign object debris in composite materials Guenther Mayr S4 - NDT of Composites 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	

04-Jul-23	SESSION				
TIME	AUDITORIUM 2	AUDITORIUM 3	AUDITORIUM 6	AUDITORIUM 8	ROOM 1.08
09:00 - 09:20	S7 - Ultrasound (EMAT, Laser Ultrasonics,	S4 - NDT of Composites	S16 - NDE & NDT of Civil Infrastructure, Structural	S1 - Additive Manufacturing	S13 - Numerical Simulation, Modeling and
	Air-coupled, nonlinear)	OC150 - CREATION AND NON-DESTRUCTIVE CONTROL	Engineering and Materials	OC310 - Near Field Microwave Probe for Metal	Data Processing
	OC428 - Online quality monitoring in the production of	OF ELECTRIC HEATING ELEMENTS OF THE AIRCRAFT	OC78 - Time reversal method applied to leaky Lamb	Additive Manufacturing Imaging	OC412 - Numeric Prediction of the Detail
	organo sheets by air-coupled ultrasonic testing	ICING PREVENTION SYSTEM	waves in an immersed layered medium		Visibility in Industrial X-Ray Computed
	organio sneets by an edupica artrasome testing	TOTAL TREVENTION STSTEM	waves in an ininiersed layered mediam	Luís Rosado	Tomography by Human Observers
	Ralf Steinhausen	Mukhail Kazakovych	Jean-Christophe Vallée	<u>Euis Nosado</u>	Tomography by Human Observers
	<u>Kali Stellillauseli</u>	<u>Mykhail Kazakevych</u>	<u>Jean-Christophe Vallee</u>		Llive Count
					<u>Uwe Ewert</u>
09:20 - 09:40	S7 - Ultrasound (EMAT, Laser Ultrasonics,	S4 - NDT of Composites	S16 - NDE & NDT of Civil Infrastructure, Structural	S1 - Additive Manufacturing	S13 - Numerical Simulation, Modeling and
09.20 - 09.40	• • •	•	•	OC205 - Automated Multi-Modal In-Process	Data Processing
	Air-coupled, nonlinear)	OC196 - Acoustic material testing a progressive	Engineering and Materials		
	OC256 - Directivity of laser generated	testing method.	OC176 - Multi-dimensional data fusion study	Non-Destructive Evaluation of Wire + Arc	OC252 - Industrial Radiography simulation with
	ultrasonic waves in thermoelastic regime		for ultrasonic and radiographic non-destructive	Additive Manufacturing	a Monte-Carlo model including full physics
		<u>Jörg Ritter</u>	inspections		
	<u>Xin Tu</u>			Ehsan Mohseni	Andreas Schumm
			<u>Elena Jasiuniene</u>		
09:40 - 10:00	S7 - Ultrasound (EMAT, Laser Ultrasonics,	S4 - NDT of Composites	S16 - NDE & NDT of Civil Infrastructure, Structural	S1 - Additive Manufacturing	S13 - Numerical Simulation, Modeling and Data
	Air-coupled, nonlinear)	OC91 - Investigation of Kissing Bonds in	Engineering and Materials	OC324 - Inline inspection of metal parts	Processing
	OC81 - Automated laser ultrasound for	Adhesive Joints	OC178 - Inductive arrays for inspection of	produced by Wire and Arc Additive	OC301 - Realistic Simulation of CT Systems -
	weld seams		curved structures	Manufacturing (WAAM)	An Introduction to The CTSimU2 Project
		Mike Kornely			·
	Norbert Huber		Alexis Hernandez	Telmo G. Santos	Carsten Bellon
				155 5. 5555	<u> </u>
10:00 - 10:20	S7 - Ultrasound (EMAT, Laser Ultrasonics,	S4 - NDT of Composites	S16 - NDE & NDT of Civil Infrastructure, Structural	S1 - Additive Manufacturing	S13 - Numerical Simulation, Modeling and Data
	Air-coupled, nonlinear)	OC382 - A new Defects Detection Method in	Engineering and Materials	OC337 - Flaw Detection in Wire and Arc	Processing
	OC67 - Noncontact measurement of bolt axial force	CFRP with non-contact Lamb Waves		Additive Manufacturing Using In-Situ Wide Frequency	OC118 - Anomalies detector on industrial
	during tightening processes using		the energy sector based on phase velocity variation of	Bandwidth Acoustic Pressure	
	0 0 01	Propagation and Wavelet Transform Analysis		Bandwidth Acoustic Pressure	radiographies: application on High
	scattered laser ultrasonic waves		ultrasonic guided waves	/ 5	Pressure Turbine Blades
		<u>Lea Lecointre</u>		<u>André Ramalho</u>	
	<u>So Kitazawa</u>		<u>Renaldas Raisutis</u>		<u>Clément Remacha</u>
10:20 - 10:40	S7 - Ultrasound (EMAT, Laser Ultrasonics,	S4 - NDT of Composites	S16 - NDE & NDT of Civil Infrastructure, Structural	S1 - Additive Manufacturing	S13 - Numerical Simulation, Modeling and Data
10:20 - 10:40	• • • • • • • • • • • • • • • • • • • •	•		OC441 - Tomosynthesis for large additive	
	Air-coupled, nonlinear)	OC240 - Nonlinear Guided Wave Damage	Engineering and Materials	,	Processing
	OC42 - Combination of laser ultrasonics and	Imaging in Composite Structures Using A	OC258 - Effect of Object Thickness on	manufacturing parts	OC254 - Improvement of radiographic
	thermography for enhanced defect	Sparse Sensor Network	Resolution of TDI X-ray Detectors		images quality using algorithms dedicated to
	characterization in CFRP parts			Anne-Françoise Obaton	geometric blur reduction
		Yusheng Ma	Anthony Dimalanta		
	<u>Bernhard Reitinger</u>				<u>Nezha Mamouni</u>
10:40 - 11:10	COFFEE-BREAK	CA AIDT of Companitor	CAC NIDE O NIDE of Civil Infrastructure Characterial	C4 Addition Manufacturing	C42 Newsoried Circulation Medaline and Date
11:10 - 11:30	S7 - Ultrasound (EMAT, Laser Ultrasonics,	S4 - NDT of Composites	S16 - NDE & NDT of Civil Infrastructure, Structural	S1 - Additive Manufacturing	S13 - Numerical Simulation, Modeling and Data
	, , , , , , , , , , , , , , , , , , , ,	OC223 - 3D-characterization of carbon fibre reinforced	Engineering and Materials	OC106 - Investigation of the Melting Process in	Processing
	OC55 - Assessment of metallurgical properties	polymers by Talbot-Lau grating interferometry	OC297 - PAUT and ToFD performance demonstration	the Hot End of a Fused Filament Fabrication 3D Printer	OC407 - Simulation of Eddy Current Rail
	on moving steel strips at high temperature	radioscopy and	on HDPE joints	by Means of X-Ray Computed Tomography	Testing Data for Neural Networks
	with laser ultrasonics	computed tomography			
			<u>Ludovic Pinier</u>	<u>Julian Ehrler</u>	Alexander Friedrich
	Guillaume Cousin	<u>Johann Kastner</u>			
11:30 - 11:50	S7 - Ultrasound (EMAT, Laser Ultrasonics,	S4 - NDT of Composites	S16 - NDE & NDT of Civil Infrastructure, Structural	S1 - Additive Manufacturing	S13 - Numerical Simulation, Modeling and Data
	Air-coupled, nonlinear)	OC401 - Inspection benchmarking of Fibre Reinforced	Engineering and Materials	OC166 - In-process Non-Destructive Evaluation	Processing
	OC185 - Experimental analysis of planar/volumetric	Polymeric Composites produced	OC383 - Material Characterisation of Polyamide using	of Wire + Arc Additive Manufacture Components Using	OC34 - Formulation of a Mechanical Stress Dependent
	defects in ultrasonics NDT: Standardization of	by Additive Manufacturing	Fluidic Oscillator as a Frequency	Ultrasound High-Temperature Dry-Coupled Roller-	Macroscopic Magnetic Model for Incremental
	evaluation metrics using symbiosis of TOFD and TR-		Modulated Air-Coupled Ultrasonic Transducer	Probe	Permeability Simulation
	NEWS methods	Miguel A. Machado		1	
			Viswa Ratnasri Sunkavalli	Rastislav Zimermann	Patrick Lombard
	<u>Serge Dos Santos</u>		viswa Natifasii Saiikavalli	Nastisiav Ziilietiilailii	I defice compaid
	seige DOS Sanios				
11:50 - 12:10	S7 - Ultrasound (EMAT, Laser Ultrasonics,	S4 - NDT of Composites	S16 - NDE & NDT of Civil Infrastructure, Structural	S2 - NDT Industry 4.0	S13 - Numerical Simulation, Modeling and Data
11.30 - 12.10	Air-coupled, nonlinear)	OC54 - Multi-domain contactless NDI approach: Data	Engineering and Materials	OC83 - Monitoring Barkhausen noise measurements to	
		•			
	OC344 - Robot-ready spot- and seam weld	fusion of structural light scanning with thermography		detect and reduce grinding burn and case depth	OC368 - A Physics-informed Neural Network for Pulsed
	testing based on laser excitation and	and shearography	local cooling on the cracked surface	defects in manufactured parts	Thermography-Based Defect Detection and
	air-coupled detection of ultrasound				Parameter Estimation
		<u>Patrick Jansen</u>	<u>Arthur Perrin</u>	<u>Kizkitza Gurruchaga</u>	
	<u>Josef Pörnbacher</u>				<u>Yuan Yao</u>

12:10 - 12:30	S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear) OC45 - Tensile properties estimation of aluminum alloys using deep learning-based ultrasonic testing	S4 - NDT of Composites OC284 - Automated woven background removal for enhanced infrared thermographic inspection of composites	S16 - NDE & NDT of Civil Infrastructure, Structural Engineering and Materials OC389 - The importance of material guiding in the reliability of rotary UT testing of tubes - a practical approach to characterize	S2 - NDT Industry 4.0 OC146 - A Machine Learning Based-Guided Wave Approach for Damage Detection and Assessment in Composite Overwrapped Pressure Vessels	S13 - Numerical Simulation, Modeling and Data Processing OC204 - Spatial resolution in photothermal and photoacoustic imaging
	Kyung-young Jhang	<u>Gaétan Poelman</u>	testing equipment <u>Klaus Dickmann</u>	<u>Amir Charmi</u>	<u>Peter Burgholzer</u>
12:30 - 12:50	S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear) OC380 - A study on the nonlinear correlation between viscoelasticity and guided ultrasound Younho Cho	S4 - NDT of Composites OC27 - Porosity in Carbon Fiber laminate part. Porosity coupons for the evaluation of the percentage voids volume. Valter Capitani	S16 - NDE & NDT of Civil Infrastructure, Structural Engineering and Materials OC409 - Modern corrosion mapping of storage tank bottoms – notable advancements in critical zone coverage, inspection efficiency and data integrity. Andrew Simpson	S2 - NDT Industry 4.0 OC190 - Laser ultrasonics for online monitoring of microstructures in the hot strip mill Mikael Malmström	S13 - Numerical Simulation, Modeling and Data Processing OC265 - A WebGPU-based acoustic wave simulator for ultrasound NDT Thiago A. R. Passarin
12:50 - 14:10	LUNCH				
14:10 - 14:30	S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear) OC346 - Self-calibrating SAFT algorithm for the inspection of electronic devices using scanning acoustic microscopy Mario Wolf	S4 - NDT of Composites OC56 - Computed tomography investigations of 3D aluminum - GMT hybrid profiles manufactured by compression molding Manel Ellouz	S16 - NDE & NDT of Civil Infrastructure, Structural Engineering and Materials OC414 - Quantitative analysis of delaminations by means of lock-in infrared thermography Javier Rodríguez-Aseguinolaza	S2 - NDT Industry 4.0 OC195 - Using DICONDE for NDT Data Fusion <u>Geo Jacob</u>	S13 - Numerical Simulation, Modeling and Data Processing OC263 - Using Perfectly Matched Layer in a GPU simulation of ultrasound NDT Thiago A. R. Passarin
14:30 - 14:50	S19 - Biomedical Technology OC85 - Modelling of an ultrasound-based system for cataract detection and classification Mário Santos	S4 - NDT of Composites OC243 - Defect-aware Super-resolution Thermography by Adversarial Learning Cheng Liangliang	S16 - NDE & NDT of Civil Infrastructure, Structural Engineering and Materials OC88 - Mimicking dam upstream slope scenarios in acrylic tanks for ultrasonic evaluation Tiago Dourado	S2 - NDT Industry 4.0 OC92 - Reduction of rejects by combining data from the casting process and automatic X-ray inspection Thomas Stocker	S13 - Numerical Simulation, Modeling and Data Processing OC293 - Determining ultrasonic propagation effective properties in complex heterogeneous media through microstructure-scale simulation Vincent Dorval
14:50 - 15:10	S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear) OC352 - Visualization of wave modes generated by electromagnetic acoustic transducers with the photoelastic imager Michael Kaack	S4 - NDT of Composites OC309 - RoboCT - Robot based Micro-CT of full size Composite Aerostructures Wolfgang Holub	S16 - NDE & NDT of Civil Infrastructure, Structural Engineering and Materials OC201 - Metrological characterization of the longitudinal ultrasonic velocity of cylindrical rock cores <u>Tiago Dourado</u>	S2 - NDT Industry 4.0 OC6 - In-situ microstructure monitoring during tempering of quenched AISI4340 steels using a high temperature electromagnetic sensor Fanfu Wu	S13 - Numerical Simulation, Modeling and Data Processing OC26 - Simulation of wave propagation in austenitic stainless steel welds with solidification structure predicted by Cellular Automaton method Shan Lin
15:10 - 15:30	S9 - Guided Waves OC342 - A study on the wave propagation on weld joints by the use of feature-guided wave mixing Jaesun Lee	S4 - NDT of Composites OC361 - X-ray Computed Tomography Inspection of Novel Ceramic Matrix Composites Nick Brierley	S15 - Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis) OC241 - Self-sensing metallic material based on piezoelectric particles Pedro Ferreira	S2 - NDT Industry 4.0 OC1 - On the use of inline phase transformation sensors in a hot strip mill: a case study Haibing Yang	S13 - Numerical Simulation, Modeling and Data Processing OC8 - 3D HYBRID MODELING FOR THE ULTRASONIC PHASED ARRAY INSPECTION OF POROSITY IN HEAVY PLATES: SIMULATION AND EXPERIMENTAL VALIDATION Sanjeevareddy Kokoori
15:30 - 15:50	S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear) OC437 - IN-SERVICE OIL REFINERIES STORAGE TANK INSPECTION WITH GUIDED WAVES. Levente Bazsanyi	S4 - NDT of Composites OC39 - NDT & METROLOGY – Improving Efficiency in Aerospace Manufacturing utilizing the Multi-Modality Approach Thomas Gramberger	S15 - Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis) OC12 - Working Smart Using Wireless UT Sensors for Asset Integrity Monitoring Steve Strachan	S2 - NDT Industry 4.0 OC19 - HIGH TEMPERATURE CHARACTERISATION OF THE STIFFNESS MATRIX OF DIFFERENT STEELS Arno Volker	S9 - Guided Waves OC234 - 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	OC253 - Detection of barely visible impact damage in composite plates using non-linear pump-probe technique	S4 - NDT of Composites OC288 - Developing in-line inductive probes for carbon fibre composite manufacturing Robert Hughes	#N/D	#N/D	S13 - Numerical Simulation, Modeling and Data Processing OC225 - Comparison of grain structure models for wave propagation analysis in centrifugally cast stainless steel Masaki Nagai
	Guillemette Ribav				INIQOQNI INGEGI
16:10 - 16:40	Guillemette Ribay COFFEE-BREAK				<u>iviasaki ivagai</u>

16:40 - 17:00	S9 - Guided Waves	S6 - Microwave, Terahertz, and Infrared	S15 - Monitoring (SHM, Acoustic Emission,	S2 - NDT Industry 4.0	S13 - Numerical Simulation, Modeling and Data
20110 27100	OC371 - Deep learning algorithms for design of	OC73 - Non-destructive testing of	Resonance, Vibration Analysis)	OC111 - Automated Spot Weld Testing using a Smart	_ ·
	periodic structures and dispersion curves calculation	fiber-reinforced composites by terahertz method	, ,	Robotic System	OC298 - Al-based and model assisted diagnostic for
		· · ·	OC123 - Identification of overloads on splined shafts	, '	ultrasonic TFM weld inspection
	Kseniia Barashok	Waldemar Swiderski	by means of eddy current testing technology	York Oberdoerfer	· '
			, , , , , , , , , , , , , , , , , , , ,		Stéphane Le Berre
			René Gansel		
17:00 - 17:20	S9 - Guided Waves	S6 - Microwave, Terahertz, and Infrared	S15 - Monitoring (SHM, Acoustic Emission,	S2 - NDT Industry 4.0	S13 - Numerical Simulation, Modeling and Data
	OC214 - Guided Wave-based Structural	OC108 - Improvement of 3D-Active Thermography by	Resonance, Vibration Analysis)	OC215 - Easy to go and innovative validation process	_
	Health Monitoring for a Composite Aircraft Fuselage	using Artificial Intelligence		using the spot weld inspection system PHAsis and	OC338 - Automated honeycomb detection during
	under Mechanical Load		OC66 - A low-cost ultrasonic array for long-term and	related software	Impact Echo inspections using AI trained by simulation
		<u>Marc Kreutzbruck</u>	high-resolution localised monitoring		data
	<u>Maria Moix-Bonet</u>			Philipp Poltersdorf	
			<u>Xiaoyu Sun</u>		<u>Fabian Dethof</u>
17:20 - 17:40	S9 - Guided Waves	S6 - Microwave, Terahertz, and Infrared	S15 - Monitoring (SHM, Acoustic Emission,	S2 - NDT Industry 4.0	S13 - Numerical Simulation, Modeling and Data
17.20 17.40	OC306 - Passive guided wave tomography for	OC207 - Combing radar and ultrasound imaging for	Resonance, Vibration Analysis)	OC348 - FebUS - Development and application	Processing
	monitoring corrosion in pipes	surface echo compensation and augmented visibility	resonance, translation randitysis,	of the latest technologies in the UT-NDT field	OC450 - THICKNESS MEASUREMENT FOR METALLIC
		of interior structures in NDT applications	OC101 - Experimental evidence of spin electron		LAMINATES: AN ACCURATE METHOD FOR
	Arnaud Recoquillay		magnetic moment vibration activated with the	Damiano Sallemi	INDUSTRIAL APPLICATIONS
		Ingrid Ullmann	magnetic field and monitored by acoustic emission		
			, , , , , , , , , , , , , , , , , , , ,		Antonello Tamburrino
			Giuseppe Nardoni		
17:40 - 18:00	S9 - Guided Waves	S6 - Microwave, Terahertz, and Infrared	S15 - Monitoring (SHM, Acoustic Emission,	S2 - NDT Industry 4.0	S13 - Numerical Simulation, Modeling and Data
	OC328 - 24/7 Large Area Corrosion Monitoring	OC41 - Some practical NDE and QC Applications of	Resonance, Vibration Analysis)	OC370 - Knowledge sharing as a	Processing
		Time Domain Terahertz Technology	OC126 - Infrared Thermography testing during	central idea of NDT 4.0	OC97 - Custom Transient Finite Element Method and
	<u>Thomas Voght</u>		the welding process		Ray Tracing Hybridization Strategies for Ultrasonic
		<u>Joe Buckley</u>		<u>Tamara Diederichs</u>	Testing Modelling
			<u>Sébastien Saint Yves</u>		
					<u>Edouard Demaldent</u>
18:00 - 18:20	S9 - Guided Waves	S6 - Microwave, Terahertz, and Infrared	S15 - Monitoring (SHM, Acoustic Emission,	S2 - NDT Industry 4.0	S4 - NDT of Composites
	OC327 - Detection and Measurement of Pitting	OC25 - Field Applications for Multi-Frequency	Resonance, Vibration Analysis)	OC188 - NDE 4.0 Roadmap for Ultrasonic Nonlinear	OC377 - Modelling low-frequency vibration response
	Corrosion using Short Range Guided Wave Scanning	Microwave Imaging	OC147 - Quantitative visual vibrometry for	Imaging within Industry 4.0: the importance of	and defect detection in homogeneous solids and
			defect detection.	prescriptive Signal, Image and	honeycomb composite panels
	<u>Sam Horne</u>	<u>Terry Haigler</u>		Data Analysis	
			<u>Lucy Dougill</u>		<u>Joshua Aigbotsua</u>
				Serge Dos Santos	

DAY 3 - WEDNESDAY, 5 JULY 2023

05-Jul-23	SESSION				
TIME	AUDITORIUM 2	AUDITORIUM 3	AUDITORIUM 6	AUDITORIUM 8	ROOM 1.08
09:00 - 09:20	S13 - Numerical Simulation, Modeling and Data	S25 - ACADEMIA INTERNATIONAL RESEARCH DAY	S15 - Monitoring (SHM, Acoustic Emission,	S2 - NDT Industry 4.0	S18 - Oil & Gas
	Processing		Resonance, Vibration Analysis)	OC140 - Platform for ultrasonic data	OC62 - Development of HOIS guidance for
	OC157 - A generic numerical solver for modeling the	(check detailed programme below -	OC231 - Vibrational NDT with Under-sampled Data	management and evaluation	ultrasonic NDT for non-intrusive inspection at
	influence of stress conditions on guided	from 09:00 to 17:10)	through Physics-informed Neural Networks		elevated temperatures
	wave propagation for SHM applications			<u>Iratxe Aizpurua</u>	
			<u>Saeid Hedayatrasa</u>		<u>Helen Peramatzis</u>
	<u>André Dalmora</u>				
					222 2112 2
09:20 - 09:40	S9 - Guided Waves		S15 - Monitoring (SHM, Acoustic Emission,	S2 - NDT Industry 4.0	S18 - Oil & Gas
	OC436 - Lamb Wave Mode Conversion Analysis for		Resonance, Vibration Analysis)	OC171 - Automated adaptive TFM method for	OC110 - Field inspection of steel pipes using automatic
	Crack Assessment		OC247 - Sensitivity study of tuned Lamb wave	gas turbine testing in NDE 4.0	UT
			excitation with an embedded Lead Zirconate Titanate		
	<u>Artur Ribeiro</u>		transducer in composite laminates	<u>Christian Hassenstein</u>	<u>Raphaël Michel</u>
			Nina Kergosien		
09:40 - 10:00	S9 - Guided Waves		S15 - Monitoring (SHM, Acoustic Emission,	S2 - NDT Industry 4.0	S18 - Oil & Gas
	OC177 - Influence of Environmental and Operational		Resonance, Vibration Analysis)	OC335 - Transforming Ultrasonic Inspection Data	OC124 - Ultrasonic inspection of "shaped pipes"
	Variation on Reliability Assessment		OC280 - Damage Monitoring of Buried Pipelines under	Management through Cloud-Based Solutions	
	of Guided Wave-based Structure Health		Harsh Noise Environment using Low Frequency		<u>Fabien Lefevre</u>
	Monitoring System on a Pipeline Structure		Acoustic Emission Analysis	<u>André Lamarre</u>	
	<u>Ahmed Bayoumi</u>		<u>Sun-Ho Lee</u>		

10:00 - 10:20	S9 - Guided Waves OC275 - A Realistic 'digital twin' for guided wave SHM of pipelines Panpan Xu		S15 - Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis) OC448 - SHM of wire- breakage in concrete bridges by Acoustic Emission Technique Horst Trattnig	S2 - NDT Industry 4.0 OC35 - Production Integrated CT Inspection Process <u>Alexander Suppes</u>	S18 - Oil & Gas OC264 - Virtual encoder: a two-dimension visual odometer for NDT Thiago A. R. Passarin
10:20 - 10:40	S9 - Guided Waves OC334 - Development of a digital twin for generating realistic ultrasonic guided wave signals Vivek Nerlikar		S15 - Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis) OC416 - Automatized Scaling Monitoring in Pipelines with Acoustic Resonance Testing Isabelle Stüwe	S2 - NDT Industry 4.0 OC175 - Magneto-Optic Screening Technology for Integrity Monitoring of Pipelines Gabriel Dinis	S18 - Oil & Gas OC356 - Detection and Characterisation of Hydrogen-Induced Cracking using ultrasonic NDT inspection techniques Peter Merck
10:40 - 11:10	COFFEE-BREAK				
11:10 - 11:30	S9 - Guided Waves OC17 - Impact localization in composite structures with guided wave and 1D convolutional neural network Bo Feng	S25 - ACADEMIA INTERNATIONAL RESEARCH DAY (check detailed programme below - from 09:00 to 17:10)	S15 - Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis) OC226 - Frequency Steerable Acoustic Transducers for Guided Waves-based Structural Health Monitoring Masoud Mohammadgholiha	S2 - NDT Industry 4.0 OC134 - Numerical study of the Line Scan InfraRed Thermography (LST-IR) to optimize the inspection of aircraft structures <u>Ludovic Gaverina</u>	S18 - Oil & Gas OC255 - Evaluation and Simulation of HTHA Damaged Specimen using UT Advanced Techniques Bastien Clausse
11:30 - 11:50	S9 - Guided Waves OC154 - Guided waves defect interaction coefficients obtained through image-based models <u>Daniel Lozano</u>		• •	S2 - NDT Industry 4.0 OC283 - Automatic defect detection in fiber-reinforced polymer matrix composites using thermographic vision data Nuno Mendes	, , , , , , , , , , , , , , , , , , , ,
11:50 - 12:10	S9 - Guided Waves OC159 - On the development of a model-assisted design procedure of guided wave-based SHM systems Enes Savli		S15 - Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis) OC415 - An Acoustic Emission IoT Device for Wind Turbine Rotor Blade Condition Monitoring Valery Godinez-Azcuaga	S2 - NDT Industry 4.0 OC181 - Applications of Deep Learning in NDE Ryan Scott	S18 - Oil & Gas OC202 - Latest Developments in the Hardspot Inspection of heavy plates Gerald Schneibel
12:10 - 12:30	S13 - Numerical Simulation, Modeling and Data Processing OC435 - Detection of flaws in austenitic stainless steel plate using eddy current testing Helena Ramos		S15 - Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis) OC174 - NDE & Sensing Solutions for Pipeline Structural Health Monitoring Bruno Moreira	S2 - NDT Industry 4.0 OC396 - Automatic defect recognition on parts after MPI and FPI Radek Salac	S18 - Oil & Gas OC438 - Low-cost tool for identifying illegal tapping used for fuel theft Lucas Braga Campos
12:30 - 12:50	S13 - Numerical Simulation, Modeling and Data Processing OC434 - Leveraging Signal Correlation for a Multi-variable Model Assisted PoD of Flaws in Eddy Current NDT Artur Ribeiro		S15 - Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis) OC294 - Guided waves based SHM system for rail monitoring and its environmental impact Bastien Chapuis	S2 - NDT Industry 4.0 OC184 - An analysis of how a software platform can achieve complete digital transformation using Radiographic Testing as an example Lea Köhler	S18 - Oil & Gas OC440 - 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	S9 - Guided Waves OC158 - Addressing non-uniqueness for the tomographic reconstruction of wall thickness loss in pipelines. Emiel Hassefras	S25 - ACADEMIA INTERNATIONAL RESEARCH DAY (check detailed programme below - from 09:00 to 17:10)	S15 - Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis) OC299 - 24/7 monitoring on metallic pressure equipment, storage tanks and infrastructure components with acoustic emission Gerald Lackner	S2 - NDT Industry 4.0 OC303 - Strategy for NDTE education at universities in France Serge Dos Santos	S11 - Art & Cultural Heritage OC20 - Ten+ Years of Experience in Digitization of Cultural Heritage by Means of Industrial X-ray Computed Tomography: A Summary Theobald Fuchs
14:30 - 14:50	S9 - Guided Waves OC193 - Numerical Assessment of Guided Wave Tomography in a Pipe Bend Based on Full Waveform Inversion Carlos Omar Rasgado Moreno		S15 - Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis) OC410 - CORROSION BASED DEFECT DETECTION AND CLASIFICATION IN PIPE WALL USING MULTIPLE HIGH ORDER ULTRASONIC GUIDED WAVE MODES Donatas Cirtautas	S2 - NDT Industry 4.0 OC287 - Advanced machine learning for dissimilar metal weld phased array ultrasonic inspection Tuomas Koskinen	S11 - Art & Cultural Heritage OC87 - Non-Destructive Examination of Metallic Idols and Statues in Religious Institutions - A Case Study Tejas Ingale

14:50 - 15:10	S9 - Guided Waves		#N/D	S2 - NDT Industry 4.0	S11 - Art & Cultural Heritage
	OC208 - Enhancement and comparison of			OC192 - NDE 4.0 – Digital Transformation	OC429 - Non-Destructive Testing of Artworks
	tomographic reconstruction images in plate-like			of NDE	from the Artist Cy Twombly
	structures of aircrafts for SHM application				
	using guided waves			Lennart Schulenburg	<u>Juliana Berthold</u>
	Aadhik Asokkumar				
15:10 - 15:30	S9 - Guided Waves		S14 - Transportation (Railway, Automotive, Marin,	S2 - NDT Industry 4.0	S11 - Art & Cultural Heritage
	OC249 - Damage imaging and wavenumber mapping		Aerospace)	OC364 - Unified NDT Inspection Software platform to	OC300 - Active thermography to look beneath the
	for inspection of bonded CFRP plates using ultrasonic		OC28 - Reliable detection of stick welds at resistance	the service of NDE community	surface of a historic German aircraft
	guided waves		spot welding		
	guided waves		Spot weiding	Patrick Huot	<u>J</u> ulia Frisch
	Mohsen Barzegar		Christian Mathiszik	<u>r atrick ridot</u>	<u> </u>
15:30 - 15:50	S9 - Guided Waves			S2 - NDT Industry 4.0	S11 - Art & Cultural Heritage
			S14 -Transportation (Railway, Automotive, Marin,	· · · · · · · · · · · · · · · · · · ·	OC222 - Virtual reconstruction of some metal artifacts
	OC286 - Inspection of CFRP Aircraft Components using		Aerospace)	OC394 - Magnetic crawler for welds Visual Testing,	
	Guided Wavefield Imaging in		OC292 - Adaptive ultrasonic rail wheel	based on 3D profilometry and 2D	discovered at the Roman auxiliary fort of Cumidava
	Wavenumber-Frequency domain		testing system with advanced phased array technology	image processing	using combined X-ray microtomography and
					microfluorescence
	<u>Mathias Kersemans</u>		Thomas Würschig	<u>Marco Induti</u>	
					<u>Ion Tiseanu</u>
15:50 - 16:10	S9 - Guided Waves		S14 -Transportation (Railway, Automotive, Marin,	#N/D	S11 - Art & Cultural Heritage
	OC343 - The use of segmented Magneto-strictive tools		Aerospace)		OC312 - Laminographic Imaging of a Medieval Panel
	for Medium Range Ultrasonic Inspection		OC72 - Innovative concept enables higher sensitivities		Painting by RoboCT
	of pipelines		in ultrasonic testing of		
			railroad wheels		Wolfgang Holub
	<u>Andrew Simpson</u>				
			<u>Andreas Knam</u>		
16:10 - 16:40	COFFEE-BREAK				
16:40 - 17:00	S9 - Guided Waves	S25 - ACADEMIA INTERNATIONAL RESEARCH DAY	S14 -Transportation (Railway, Automotive, Marin,	S2 - NDT Industry 4.0	S7 - Ultrasound (EMAT, Laser Ultrasonics, Air-coupled,
	OC183 - Modelling guided wave reflection from		Aerospace)	OC395 - The AutosonicTM, a system for the full	nonlinear)
	defects in pipes - an integrated approach	(check detailed programme below -	OC203 - Advanced 3D-TFM Ultrasonic	automatic inspection of seamless steel and aluminum	
		from 09:00 to 17:10)	Spot-Weld Inspection	gas cylinders industry 4.0 ready.	OC 317 - OLED Glass Substrates Inspection using
	Abdul Mateen Qadri				Air-coupled Ultrasonic Testing
			<u>Tobias Bruch</u>	<u>Luca Scaccabarozzi</u>	
					Bonggyu Ji
17:00 - 17:20	S9 - Guided Waves		S14 -Transportation (Railway, Automotive, Marin,	S2 - NDT Industry 4.0	#N/D
	OC235 - Data-Driven Remaining Useful Life Prognostic		Aerospace)	OC431 - Data processing to analyze health state	
	for Aeronautical Composite Structures based on		OC229 - Assessment of residual stresses in	in X-ray modules	
	Guided Waves		railway rails using ultrasonic and Barkhausen	·	
			noise techniques	Pascal Corbat	
	<u>Ferda Cansu GÜL</u>		, '		
			Young-In Hwang		
			<u></u>		
17:20 - 17:40	#N/D	#N/D	#N/D	#N/D	#N/D
17:40 - 18:00	х	х	х	х	x
17:40 - 18:00	х	x	х	х	х
19:30	GALA DINNER				

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

05-Jul-23					
TIME	AUDITORIUM 2	AUDITORIUM 3	AUDITORIUM 6	AUDITORIUM 8	ROOM 1.08
09:00	х	S25 - Academia International Research Day (AIRD) 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	х	NDE and Deep Learning: Fashion Trend or the Future? Keynote Presentation - Roman Gr. Maev University of Windsor, Canada	X	X	X

		I -			
09:50 - 10:20	Х	The perspective of Academia NDT International	Х	X	x
		Deter Trampus			
		<u>Peter Trampus</u> President of Academia NDT International, Hungary			
		resident of Academia NDT international, flungary			
10:20 - 10:40	х	Experimental evidence of the spin magnetic moment	х	X	x
		of electron activated by the magnetic			
		field and monitored by acoustic emission			
		Giuseppe Nardoni, N. Fallahi, P. Nardoni			
		I&T Nardoni Institute, Italy			
10:40 - 11:10	COFFEE-BREAK				
11:10	X X	INTERNATIONAL FORUM ON NDT EDUCATION	×	x	x
11.10		AT UNIVERSITIES			
		Joint meeting of Academia NDT International			
		and ICNDT WG 3			
11:10 - 11:20	Х	Opening and Welcome	X	Х	Х
		<u>Younho Cho</u>			
		President of WCNDT 2020 and			
		Chairman of WG 3 of ICNDT, South Korea			
11:20 - 11:50	х	NDT Integrity Engineering – The Feasible Curriculum	х	х	x
		Keynote presentation - Peter Trampus 1,			
		Vjera Krstelj 2			
		1 President of Academia NDT International, Hungary 2 President of Croatian Engineering Association,			
		Croatia Croatia			
11:50 - 12:10	X	Current Status and Challenges of NDE Education at	X	Х	X
		Academic Institutions in the U.S.A.			
		<u>Reza Zoughi</u>			
		Center for Nondestructive Evaluation (CNDE),			
		IOWA State University, U.S.A.			
12:10 - 12:30	Х	The UK Research Centre for NDE (RCNDE) – Twenty	X	Х	Х
		Years of Delivering Value to Industry			
		<u>Colin Brett</u>			
		RCNDE, United Kingdom			
12:30 - 12:50	х	General Education and Training of NDT Personnel,	х	х	х
		including NDT Education at Universities in			
		South Africa			
		Manfred Johannes			
		Immediate Past President of SAINT, South Africa			
12:50 - 14:10	LUNCH				
14:10 - 14:30	x	S25 - Academia International Research Day (AIRD)	х	x	×
		Evnerionce with an International NDT Moster			
		Experience with an International NDT Master Course in view of Research and Development			
		Course in view of hescaren and bevelopment			
		<u>Uwe Ewert</u> 1, <u>Viktor Lyamkin</u> 2, <u>Christian Boller</u> 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			
		contesting, campus backweller, definiting			

14:30 - 14:50	х	Strategy for NDTE Education at Universities in France	х	х	х
		Dillion Down by He 4. Beat 14.51.C. and a second			
		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			
		5 more centre var de Lone, France			
14:50 - 15:10	х	The Role of ASNT in Supporting NDT Education	х	х	х
		and Research in the USA			
		Shant Kenderian			
		The Aerospace Corporation, ASNT Engineering			
		Council, U.S.A.			
15:10 - 15:30	х	Strategy for NDT Education at Universities in India	x	x	х
		<u>Krishnan Balasubramaniam</u>			
		IIT, India			
15:30 - 15:50	X	Development and Practical Exploration of NDT	х	X	X
		Education			
		at Universities in China			
		<u>Yongshun Xiao</u>			
		Tsinghua University, China			
15:50 - 16:10	x	Strategy for NDE Education at Universities in UK:	x	x	X
15.50 10.10		An Integrated Education Programme for			
		NDT Professionals			
		<u>David Gilbert</u>			
		BINDT, United Kingdom			
16.10 16.40	COFFEE-BREAK				
16:10 - 16:40 16:40 - 17:10	× ×	Panel Discussion	x	×	x
10.40 - 17.10		Tuner Discussion			
		Shant Kenderian, Younho Cho, Peter Trampus			
		Academia NDT International, WG3 ICNDT			
17:10 - 17:20	x	х	x	х	х
17:20 - 17:40	X	х	X	X	Х
17:40 - 18:00	X	х	X	X	X
17:40 - 18:00	X	х	Х	Х	Х
19:30	GALA DINNER				

DAY 4 - THURSDAY, 6 JULY 2023

06-Jul-23	SESSION				
TIME	AUDITORIUM 2	AUDITORIUM 3	AUDITORIUM 6	AUDITORIUM 8	ROOM 1.08
09:00 - 09:20	S9 - Guided Waves OC270 - Use of periodic structures for mode	S5 - Materials Characterization OC3 - HIGH TEMPERATURE MAGNETIC	S14 - Transportation (Railway, Automotive, Marin, Aerospace)	S2 - NDT Industry 4.0 OC120 - A path towards digital industry:	S17 - Energy Generation (Fossil, Nuclear and Regenerative Power Generation)
	transformation in cylindrical objects	PROPERTIES OF SELECTED STEEL GRADES	OC250 - In-Service Ultrasonic Wheel Inspection thought beyond - New Generation with Focus	Airblade grains detection by directional reflectance technique	OC245 - Development and adaptation of Ultrasonic system for Windblades inspection
	<u>I Boris</u>	<u>John Wilson</u>	on improved Ergonomics, Digitalization and Operator	Clément Remacha	using Unmanned Aerial Vehicles
			Support <u>Thomas Würschig</u>	<u>ciement Remacha</u>	<u>Sergio González</u>
09:20 - 09:40	S9 - Guided Waves OC315 - APPLICATIONS OF LINEAR SCANNING MAGNETOSTRICTIVE TRANSDUCERS (MST) FOR FINDING OF HARD TO DETECT ANOMALIES IN	S5 - Materials Characterization OC105 - Non-destructive magnetic evaluation of microstructure and mechanical properties of advanced high-strength steels	S14 - Transportation (Railway, Automotive, Marin, Aerospace) OC82 - Scanning pulse phase thermography for surface defect detection in manganese steel	S2 - NDT Industry 4.0 OC53 - Automating 'Image-Based Simulation' with machine learning for virtual quality assurance in industrial applications	S17 - Energy Generation (Fossil, Nuclear and Regenerative Power Generation) OC79 - Automated analysis of Baffle Bolts
	STRUCTURAL COMPONENTS Sergey Vinogradov	Ane Martinez-de-Guerenu	turnout frogs <u>Christoph Tuschl</u>	<u>Llion Evans</u>	<u>Javier De La Morena</u>

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32		OC49 - The effect of ultrasound wave path estimation to defect characterization capability in half-skip total focusing method	OC132 - Heat treatment and residual stress characterization by electromagnetic non-destructive methods	Aerospace) OC419 - Experimental evaluation of metallic ropes magnetisation under magneto-inductive testing	OC129 - Guided wave ultrasonic feature determination in Type IV composite overwrapped pressure vessels towards the digital twin	OC24 - Power Plant Condition Assessment through Engineering, Materials Science, and NDT 4.0
OCES Development of 1004 offices and processing from the formation of Street for Unavariation for the processing of the State Place of the Contract of Street for Unavariation for Unavariation for Unavariation for Unavariation for Unavariation for Unavariation (Contract of American Indiana Indi						<u>Terry Haigler</u>
CC172 - Advances in Automated Edep-Current Characterisation of Carbon Pibro Composites (Client Indianance Burchée) CUI Information Burchée CUI I		OC63 - Development of 1024-elements 2D matrix array transducer for high-resolution 3D phased-array imaging in NDE applications	OC161 - Magnetic NDT of the Microstructure of Steels for Oil and Gas Applications	Aerospace) OC350 - How to Reach 100% Inspection Coverage of Aeroengine Fan Blades with a High Probability of Detection	OC169 - Strategies for pipeline inspection using mobile robots	S17 - Energy Generation (Fossil, Nuclear and Regenerative Power Generation) OC282 - Eddy current response from copper tube extrusion laps compared to artificial notches Barend Van Den Bos
SS - Ultrasound Plased Arrays OC367 - Assessing the roughress of surfaces with ultrasound arrays with ultrasound arrays with ultrasound arrays OC367 - Assessing the roughress of surfaces with ultrasound arrays OC367 - Assessing the roughress of surfaces with ultrasound arrays OC367 - Assessing the roughress of surfaces with ultrasound arrays OC367 - Assessing the roughress of surfaces with ultrasound arrays OC367 - Assessing the roughress of surfaces with ultrasound arrays OC367 - Assessing the roughress of surfaces with ultrasound arrays OC367 - Assessing the roughress of surfaces with ultrasound plased Arrays OC49 - Low Frequency GFRP Imaging with Variable Aperture TFM OC492 - Microchannels produced by Friction Stir Chaneling: characterization with non-destructive detection on the surface of the	10:20 - 10:40	OC251 - Innovative Instrument Platforms for Ultrasonic Inspections	OC172 - Advances in Automated Eddy-Current Characterisation of Carbon Fibre Composites	Algorithmics, Methods Combination) OC29 - Inspection of vaporizers and recuperators in Binary Cycle Geo Thermal Power plant	OC413 - DEKRA Robotized Inspection of Hazardous Areas	S17 - Energy Generation (Fossil, Nuclear and Regenerative Power Generation) 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 Florin Turcu
C269 - Assessing the roughness of surfaces with ultrasound arrays with ultrasound arrays with ultrasound arrays with ultrasound arrays C269 - Representative and Themo-Mechanical Loading? Viktor Lyamkin C273 - Process sale automatic evaluation for fast fact fallowed to of fast fal	10:40 - 11:10	COFFEE-BREAK				
OC43 - Low Frequency GFRP Imaging with Variable Aperture TFM Stir Channeling: characterization with non-destructive testing techniques Miguel A. Machado 11:50 - 12:10 S8 - Ultrasound Phased Arrays Oc390 - Total Focusing (PCI) applied to various industrial cases Paul Hillman Sebastian Barton 12:10 - 12:30 S8 - Ultrasound Phased Arrays Oc390 - Total Focusing (FTM) for the Ultrasonic Testing (UT) of drawn are stud welding Carlo Romito 12:30 - 12:50 S8 - Ultrasound Phased Arrays Oc390 - Total Focusing (FTM) for the Ultrasonic Testing (UT) of drawn are stud welding Carlo Romito 12:30 - 12:50 S8 - Ultrasound Phased Arrays Oc390 - Total Focusing (FTM) for the Ultrasonic Testing (UT) of drawn are stud welding Carlo Romito 12:30 - 12:50 S8 - Ultrasound Phased Arrays Oc390 - Total Focusing (FTM) for the Ultrasonic Testing (UT) of drawn are stud welding Carlo Romito 12:30 - 12:50 S8 - Ultrasound Phased Arrays Oc390 - Total Focusing (FTM) for the Ultrasonic Oc350 - Robotics and Automation Oc360 - Note and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination) Oc390 - Total Focusing (FTM) for the Ultrasonic Testing (UT) of drawn are stud welding Carlo Romito 12:30 - 12:50 S8 - Ultrasound Phased Arrays Oc390 - Note and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination) Oc320 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination) Oc320 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination) Oc320 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination) Oc320 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination) Oc362 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination) Oc362 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination) Oc360 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination) Oc360 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination) Oc360 - New and Disru	11:10 - 11:30	OC267 - Assessing the roughness of surfaces with ultrasound arrays	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?	Algorithmics, Methods Combination) OC23 - Process safe automatic evaluation for fast Inline-CT systems	OC7 - Quantitative Measurement and Evaluation of High-Resolution Ultrasonic Sound Fields using a Novel Automated Ultrasonic Immersion Scanner	S18 - Oil & Gas OC296 - Performance demonstration of AUT Pipeline girth welds using simulation and the new CIVA AUT Pipeline software Stéphane Le Berre
Renato Nozueira Non-destructive testing techniques Miguel A. Machado Miguel A. Machado Virginia Florian Tobias Gautzsch Florian	11:30 - 11:50	OC43 - Low Frequency GFRP Imaging with	OC402 - Microchannels produced by Friction	Algorithmics, Methods Combination)	OC114 - Innovations in ultrasonic inspection	S18 - Oil & Gas OC330 - Reducing False Calls in HTHA Inspection
OC190 - Total Focusing Method (TFM) and Phase Coherence Imaging (PCI) applied to various industrial cases by high-temperature corrosion by high-temperature corrosion Paul Hillman Sebastian Barton 12:10 - 12:30 S8 - Ultrasound Phased Arrays OC398 - Total Focusing (TFM) for the Ultrasonic Testing (UT) of drawn arc stud welding Carlo Romito Carlo Romito 12:30 - 12:50 S8 - Ultrasound Phased Arrays OC432 - New Real-Time TFM in 1 shot OC162 - Non-Destructive Determination of the Magnetic Properties of Ferritic Steel Strip and Plate Products by Open-Circuit Magnetic Measurement OC195 - Reliable non-destructive detection and characterization and characterization of material degradation caused by high-temperature corrosion Algorithmics, Methods Combination) OC64 - Optimization of Computed Tomography Data Acquisition by Means of Quantum Computing Theobald Fuchs S22 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination) OC22 - Autonatic scan planning for CT scans inspection System OC22 - Autonatic scan planning for CT scans OC432 - New Real-Time TFM in 1 shot OC432 -		·	non-destructive testing techniques	detection on CT parts using simulated data		through Phase Coherence Imaging (PCI) <u>Florin Turcu</u>
OC398 - Total Focusing (TFM) for the Ultrasonic Testing (UT) of drawn arc stud welding Carlo Romito S8 - Ultrasound Phased Arrays OC432 - New Real-Time TFM in 1 shot Christophe Chollet OC461 - Visualization of stresses, properties and defects in steel components by means of intelligent magneto-optical sensor technology Lukas Lauck S5 - Materials Characterization OC462 - Non-Destructive Determination of the Magnetic Properties of Ferritic Steel Strip and Plate Products by Open-Circuit Magnetic Measurement OC461 - Visualization of stresses, properties and defects in steel components by means of intelligent magneto-optical sensor technology Frank Sukowski Algorithmics, Methods Combination) OC22 - Automatic scan planning for CT scans In spection System OC461 - Visualization of optical distortic in immediate in inspection of optical distortic in immediate in inspection System OC461 - Visualization of stresses, properties and defects in steel components by means of intelligent magneto-optical sensor technology Frank Sukowski Michael Bron S22 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination) OC360 - The use of Robotic Solutions for inspection of Unpiggable Pipelines OC461 - Visualization of stresses, properties and Algorithmics, Methods Combination) OC462 - Non-Destructive Determination of the Magnetic Properties of Ferritic Steel Strip and Plate Products by Open-Circuit Magnetic Measurement OC461 - Visualization of Sustainant Sust	11:50 - 12:10	OC390 - Total Focusing Method (TFM) and Phase Coherence Imaging (PCI) applied to various industrial cases	OC125 - Reliable non-destructive detection and characterization of material degradation caused by high-temperature corrosion	Algorithmics, Methods Combination) OC64 - Optimization of Computed Tomography Data Acquisition by Means of Quantum Computing	OC135 - AUTOMATED MULTI-NDT METHOD	S18 - Oil & Gas OC191 - Applying Artificial Intelligence (AI) in Digital Radiography Lennart Schulenburg
OC432 - New Real-Time TFM in 1 shot OC162 - Non-Destructive Determination of the Magnetic Properties of Ferritic Steel Strip and Plate Christophe Chollet Products by Open-Circuit Magnetic Measurement OC362 - Merged Mode TFM with Mode Conversion Artifact Suppression OC360 - The use of Robotic Solutions for inspection of Unpiggable Pipelines Conversion Artifact Suppression Michel Bezemer	12:10 - 12:30	OC398 - Total Focusing (TFM) for the Ultrasonic Testing (UT) of drawn arc stud welding	OC461 - Visualization of stresses, properties and defects in steel components by means of intelligent magneto-optical sensor technology	Algorithmics, Methods Combination) OC22 - Automatic scan planning for CT scans	OC227 - Autonomous Ultrasonic Disc inspection System	S18 - Oil & Gas OC261 - A data-driven method for the correction of optical distortions of depth cameras in immersion NDT Thiago A. R. Passarin
Alasdair Regan Patrick Huot	12:30 - 12:50	OC432 - New Real-Time TFM in 1 shot	OC162 - Non-Destructive Determination of the Magnetic Properties of Ferritic Steel Strip and Plate	Algorithmics, Methods Combination) OC362 - Merged Mode TFM with Mode	OC360 - The use of Robotic Solutions for inspection of Unpiggable Pipelines	#N/D
12:50 - 14:10 LUNCH						
OC4 - Development and Validation Testing of High-Temperature Phased-Array UT Transducers and Wedges for Process Applications OC75 - Estimation of the stiffness tensor from Lamb wave velocity profiles measured on steel with different texture OC378 - A Freely Positionable Dual-Robot OC100 - Innovative NDT Technique, for a More Productive Surface Damage Inspection Lightweight Structures	14:10 - 14:30	OC4 - Development and Validation Testing of High-Temperature Phased-Array UT Transducers and Wedges for Process Applications	OC75 - Estimation of the stiffness tensor from Lamb wave velocity profiles measured on steel with different texture	Algorithmics, Methods Combination) OC100 - Innovative NDT Technique, for a More Productive Surface Damage Inspection	OC378 - A Freely Positionable Dual-Robot System for Automated NDT of Large Lightweight Structures	#N/D
Steve Strachan Arno Volker Francois Lachance Marc Kreutzbruck		<u>Steve Strachan</u>	<u>Arno Volker</u>	<u>Francois Lachance</u>	<u>Marc Kreutzbruck</u>	

14:30 - 14:50	S8 - Ultrasound Phased Arrays OC220 - Temperature and geometry impact on defect detection and sizing Pavel Mares	S5 - Materials Characterization OC238 - Orthotropic stiffness characterization using guided wavefield data and machine learning Adil Han Orta	S22 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination) OC131 - Novel concepts for automatic inspection of railway tracks Stephan Falter	S3 - Robotics and Automation OC10 - Nuclear RPV inspection with multiple ROV:s for shorter inspection time Peter Merck	#N/D
14:50 - 15:10	S8 - Ultrasound Phased Arrays OC269 - Ultrasonic sectorial inspection in the presence of temperature gradients Thiago A. R. Passarin	S5 - Materials Characterization OC374 - Study of the crystallization behaviour of phase change materials by in-situ X-ray computed tomography Jorge Martinez Garcia	S22 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination) OC291 - Thermographic detection of internal defects using photothermal super resolution reconstruction and 2D-structured illumination patterns Julien Lecompagnon	S3 - Robotics and Automation OC139 - Novel automatic inspections Jose Luis Lanzagorta	#N/D
15:10 - 15:30	S8 - Ultrasound Phased Arrays OC351 - Ultra-Fast Wall Remaining Thickness Measurements & Reporting <u>Guillaume Ithurralde</u>	S5 - Materials Characterization OC299 - Layer thickness measurement of ceramic systems with a numerical model for flash thermography Julia Frisch	S22 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination) OC278 - Visual color inspection with a hyperspectral camera: inline application for automotive parts production Eduardo Assunção	S3 - Robotics and Automation OC366 - Automatic Methods for Ultrasonic Scanning Paths Generation Michel Brassard	#N/D
15:30 - 15:50	S8 - Ultrasound Phased Arrays OC170 - In-process Monitoring and Control of Multi- Pass Fusion Welding Using Phased Arrays Nina Sweeney	S5 - Materials Characterization OC144 - Deep Learning Approach for Multi-Class Segmentation in Industrial CT-Data <u>Tim Schanz</u>	S22 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination) OC46 - Al-based non-destructive weld seam testing in the field of passive thermography Patrick Kammel	S3 - Robotics and Automation OC290 - Automated misalignment correction method for ultrasonic inspection of CFRP parts Alexandre Beausoleil	#N/D
15:50 - 16:10	S8 - Ultrasound Phased Arrays OC218 - Detection of defects initiation in weld joints Pavel Mares	S5 - Materials Characterization OC145 - Generative Synthesis of Defects in Industrial Computed Tomography Data Robin Tenscher-Philipp	S22 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination) OC213 - Artificial Intelligence for Assisted Analysis of Eddy Current Data from Heat Exchangers with Non- Ferromagnetic Tubes Marco Michele Sisto	S3 - Robotics and Automation OC219 - High-speed, multi-zone ultrasonic inspection of bar and wire stocks with an in-line phased array inspection system Thomas Würschig	#N/D
16:10 - 16:40	COFFEE-BREAK				
16:40 - 17:00	S8 - Ultrasound Phased Arrays OC359 - On the Use of Asymmetrical DMA Probe Assemblies for PA UT Inspection of Tapered Dissimilar Metal Weld Configurations Paul Hillman	S21 - Food & Agriculture OC363 - Monitoring of water distribution in meat upon freezing with X-ray computed tomography Philipp Schütz	S22 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination) OC65 - Digital radiography by counting photons: innovative solution for testing very thick parts Angela Peterzol	S24 - Qualification, certification, standards and training OC325 - Standard development for Eddy Current Arrays in lieu of Magnetic Particle Testing Casper Wassink	
17:00 - 17:20	S8 - Ultrasound Phased Arrays OC372 - A High-Speed Ultrasound Full-Matrix Capture Acquisition System for Robotic Weld Inspection Marcin Lewandowski	S5 - Materials Characterization OC276 - High-resolution imaging of magnesium feedstock material for Wire Arc Additive Manufacturing (WAAM) Sascha Senck	S22 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination) OC353 - Sub-second X-ray tomography using MetalJet X-ray sources Emil Espes	S24 - Qualification, certification, standards and training OC189 - Qualification and Certification of NDT Personnel in Civil Engineering (NDT-CE) Sascha Feistkorn	
17:20 - 17:40	S8 - Ultrasound Phased Arrays OC104 - Towards a simplified verification of ultrasound phased array systems Benoit Dupont	S5 - Materials Characterization OC80 - Monitoring crack tip position in Cracked Lap Shear specimens subjected to fatigue loading Michele Carboni	S22 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination) OC449 - ELECTRICAL CONDUCTIVITY AND THICKNESS ESTIMATION BASED ON DIMENSION ANALYSIS IN EDDY CURRENT TESTING Antonello Tamburrino	S24 - Qualification, certification, standards and training OC418 - The conversion from film to digital and the revision of ISO 17636-2, weld testing, with digital radiography <u>Uwe Zscherpel</u>	
17:40 - 18:00	S8 - Ultrasound Phased Arrays OC442 - Robot-based spot weld inspection - almost couplant-free, imaging phased array based inspection with PHAsis, integrated and automated by ABB Robotics Carsten Köhler	S5 - Materials Characterization OC37 - INFLUENCE OF BIAXIAL STRESS ON MAGNETIC BEHAVIOR OF HOT- ROLLED STEELS Olivier Hubert	S22 - New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination) OC289 - Resonant Inductive Arrays for Non-Destructive Testing Applications Robert Hughes	S24 - Qualification, certification, standards and training OC52 - Enhancing the NDE training at the light of the new technologies and market demands Rafael Martínez-Oña	

18:00 - 18:20	S8 - Ultrasound Phased Arrays	S9 - Guided Waves	S22 - New and Disruptive Methods (Sensor Concepts,	S23 - NDT Reliability and Statistic
	OC68 - Inspection for non-planar shaped welded joints	OC122 - Guided Waves Propagation in	Algorithmics, Methods Combination)	OC272 - A POD approach by simulation of an
	of pipes using FMC ultrasonic technique	Composite Overwrapped Pressure Vessel	OC373 - Application of magnetic recording method to	industrial ultrasonic inspection
		Towards the Design of a Sensor Network for Structural	the non-destructive evaluation of	
	<u>Sho Yamaguchi</u>	Health Monitoring	ferromagnetic structures	Benoit Dupont
		Samir Mustapha	<u>Tomasz Chady</u>	

DAY 5 - FRIDAY, 7 JULY 2023

07-Jul-23	SESSION				
TIME	AUDITORIUM 2	AUDITORIUM 3	AUDITORIUM 6	AUDITORIUM 8	ROOM 1.08
09:00 - 09:20	S8 - Ultrasound Phased Arrays OC340 - Overview of NDT Array Techniques Applied to Inspection of Rolling Stock <u>Giovanni Corti</u>	S5 - Materials Characterization OC44 - 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	S23 - NDT Reliability and Statistic OC143 - Comparison of hit/miss and 'â versus a' POD calculations for short surface cracks using inductive thermography Beate Oswald-Tranta	
09:20 - 09:40	S8 - Ultrasound Phased Arrays OC268 - Parametric reconstruction of surfaces for ultrasound immersion imaging Thiago A. R. Passarin	S5 - Materials Characterization OC48 - How the EU project "Online Microstructure Analytics" advances inline sensing of microstructure during steel manufacturing Frenk Van Den Berg		S23 - NDT Reliability and Statistic OC266 - Reliability Analysis of Pipe Wall Thinning based on Quantification of Ultrasonic Testing Kantaro Ikeda	
09:40 - 10:00	S8 - Ultrasound Phased Arrays OC71 - Automated inspection of heavy plates with phased-array based porosity testing Andreas Knam	S5 - Materials Characterization OC38 - MAGNETOSTRICTIVE BEHAVIOR OF HOT-ROLLED STEELS Olivier Hubert		S23 - NDT Reliability and Statistic OC426 - Inspectability and POD Investigation for Optical Solar Reflector Bonded Satellite Panels <u>Utku Şahin</u>	
10:00 - 10:20	S8 - Ultrasound Phased Arrays OC295 - Automated IBEX crawler for PAUT inspection for in-service ferromagnetic assets Natalia Marcial	S5 - Materials Characterization OC422 - EDDY CURRENT FALSE INDICATIONS IN AUSTENITIC STEEL AND TITANIUM ALLOYS HEAT EXCHANGER TUBES ACTIVATED BY STRESS Valentyn Uchanin		S23 - NDT Reliability and Statistic OC281 - High energy Computed Tomography of high density alloys using a 6 MeV Linear Accelerator: detectability and use of Artificial Intelligence Stefano Benuzzi	
10:20 - 10:40	S8 - Ultrasound Phased Arrays OC84 - 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		#N/D	Joint EFNDT-ICNDT Workshop: Training, Qualification and Certification – the new 9712 and more	S23 - NDT Reliability and Statistic OC216 - Introduction of a certification procedure for the acoustic response of reference reflectors for ultrasonic testing Thomas Würschig	
11:30 - 11:50	S8 - Ultrasound Phased Arrays OC404 - Leveraging automated tools to achieve a new level of efficiency and performance for pipe girth weld inspection. Paul Hillman	#N/D		S23 - NDT Reliability and Statistic OC21 - USING MODELLING AND METAMODELS FOR RELIABILITY STUDY IN NDE Fabrice Foucher	
11:50 - 12:10	OC121 - Time of flight fast approximation method for ultrasound sub-surface imaging	#N/D		#N/D	
12:10 - 12:30	Guillermo Cosarinsky S8 - Ultrasound Phased Arrays OC262 - Full Waveform Inversion for NDT using ultrasonic linear arrays	#N/D		x	
	<u>Thiago A. R. Passarin</u>				

13:30	- 14:30	LUNCH	
14	:30	CLOSING	

POSTERS / 3 - 7 JULY 2023

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

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
S7	Ultrasound (EMAT, Laser Ultrasonics, Air-coupled, nonlinear)
S8	Ultrasound Phased Arrays
S9	Guided Waves
S10	Micro & Nano Technology and High-Resolution NDT
S11	Art & Cultural Heritage
S12	Surface Methods (MPI & PT)
S13	Numerical Simulation, Modelling and Data Processing
S14	Transportation (Railway, Automotive, Marine, Aerospace)
S15	Monitoring (SHM, Acoustic Emission, Resonance, Vibration Analysis)
S16	NDE & NDT of Civil Infrastructure, Structural Engineering and Materials
S17	Energy Generation (Fossil, Nuclear and Regenerative Power Generation)
S18	Oil & Gas
S19	Biomedical Technology
S20	Green & Echo Technology
S21	Food & Agriculture
th ECNOT 20	New and Disruptive Methods (Sensor Concepts, Algorithmics, Methods Combination)

S23 NDT Reliability and Statistic	
S24	Qualification, certification, standards and training
S25	Academia International Research Day (AIRD)

LEGEND:

S	Session of the Conference Topic
OC	Oral Communication
Р	Poster