

Agenda

NDTonAIR Last Training Event (Online mode), 03.06 - 05.06.2020

Institution	Name	Surname	Topic (s)	Time Slot	Date
Brussels Airlines	Stamm	Michael	Loose rivet detection with (vibroacoustic) thermography and SLDV measurements	10:30-11:00	03.06.2020
KTU	Yilmaz	Bengisu	Evaluation of adhesive bonding quality with advanced nondestructive testing techniques	11:00-11:30	
University of Warwick	Amato	Silvio	1. operation principles of EMATs, focusing on Lorentz force mechanism, the use of metallic patch for generating elastic waves in non-conductive samples (if I am able to manage the time, I would also like to talk about EMAT designs) 2. operation principles of capacitive imaging, applied on both conductive and insulating samples	11:30-12:00	
University of Perugia	Rizwan	Muhammad Khalid	1. explaining the basics of phased-array and numerically evaluating the time delay laws for a linear array traducers 2.combining pulse-compression with phased-array 3.image reconstruction producers for linear phased-array and showing some results of composite inspections.	14:00-14:30	
Fraunhofer IKTS	Gartsev	Sergey	Residual stress measurement in metals: application, existing and prospective solutions	14:30-15:00	
CEA	Chebbi	Housseem	1. the motivation and the interest of electromagnetic modeling in eddy current inspection problems specially for complex materials. 2. semi-analytical modeling of eddy current inspection (advantages and limitations) 3. Perspectives and possible coupling with other NDT methods	10:00-10:30	04.06.2020
KU Leuven	Sunetchiieva	Sevilia	Fatigue in aviation (its types), Current solutions/NDT methods, SHM for early crack detection during fatigue evolution	10:30-11:00	
RECENDT	Pecoriello	Luca	1. Introduction to inverse problems (ill-posed) 2. Tikhonov Regularization (+ iterative) 3. Virtual wave concept 4. Examples and demonstration conducted during the project	11:00-11:30	
KTU	Asokkumar	Aadhik	1. In performing investigation using Air-coupled transducers for through transmission method and guided wave method. 2. Air-coupled excitation and 1D-Laser doppler Vibrometer reception of the guided waves.	14:00-14:30	
University of Nantes	Ba	Abdoulayeh	1. Modeling of composite materials (structures, homogenization, etc.) ; 2. Eddy Currents (from Maxwell's equations to numerical models) ; 3. Inductive Thermography (from Maxwell's equations to numerical models) ; 4. Eddy Current Tomography	14:30-15:00	
KU Leuven	Seresini	Tommaso	Nonlinear acoustics, Laser vibrometry	10:00-10:30	05.06.2020
University of Newcastle	Yi	Qiuji	1. Kernel PCA and its applications for thermography signal feature extraction, 2. ECPuCT for QNDE of CFRP delamination and debonding, 3. Model based inversion reconstruction for multi-layer CFRP	10:30-11:00	
Fraunhofer IKTS	Chwelatiuk	Konrad	Piezoelectric Fiber Patches (PFP) (design, principle of operation) -MS-PFP (as an example of PFP transducer which is able to generate Lamb waves and SH waves efficiently) -Advantage of using MS-PFP in the industry (advantage of ability to switch modes during investigation, suitable investigation cases for LAMB waves and SH waves)	11:00-11:30	
University of Perugia	Malekmohammadi	Hamed	NDT in Advanced Manufacturing	14:00-14:30	
TWI Ltd.	Zitoun	Akram	Magnetostrictive EMATs (the topic of my research) and the inspections that can be carried out	14:30-15:00	