

Time	Monday 16 April 2012								
08.00-	Registration								
09.00-10.40	Opening Ceremony Hall 1AB								
10.40-11.20	Tea/Coffee Break								
11.20-12.00	Plenary Address : 587 Dr Baldev Raj : NDE Approaches for Enhanced Performance and Mitigation of Risks in Demanding Technologies Chair: Arthur Every								
12.00-12.20	Plenary Address : 638 Ward Rummel : The Changing Face of NDT in the USA Over the Past 50 Years Chair: Robert Potter								
12.20-13.00	Keynote Lecture : 590 Professor Peter Cawley : Guided Waves for NDT and Permanently Installed Monitoring Chair: David Alleyne								
13.00-14.00	Lunch Break								
	1AB Invited Overview Talks Chair: S Heyns	MR11/A UT: General, Nonlinear Chair: I Solodov	MR11/B Meet the Researchers Panel Discussion Chair: B Raj, A Every	MR12/A Signal Processing, Imaging Chair: R Sikora	MR12/B Transport: Aerospace Chair: J Schreiber	MR21/A Power Generation: Nuclear Chair: A Rogerson	MR21/B Magnetic Methods Chair: H Jansen	MR22/A Materials: Composites, Polymers, Ceramics Chair: R Erasmus	MR22/B New and Novel Applications, Education Chair: GQ Meredith
14.00-14.20		34 I Solodov A Local Defect Resonance to Enhance Acoustic Wave-Defect Interaction in Ultrasonic Nondestructive	M Farley Cawley J Michaels Y Cho P Loveday K Balasubramaniam M Zergoug P Calmon C Boller Afterwards meet the researchers in person in the catering/poster area	294 SA Sanaee Ultrasonic Imaging for Measurement of Thickness and Shape of Immersed Waste Particles	22 L Schaefer Components of Variation in NDE of Riveted Aluminum Aerostructures - A 30 year retrospective	PP Nanekar Ultrasonic Phased Array Examination of Roll Joint in PHWR coolant channels	91 Z Wei-Chang Magnetic Leakage Field Yielded by A Rectangular Hollowed-out Slot on a Plate Principle of Magnetic Particle	38 D Datta Fractal Dimension of Waveforms as a Useful Feature in Ultrasonic Imaging	192 K Leupoldt Replacement of Manual by Mechanized UT Inspections in the Energy, Forging and Railway Industry
14.20-14.40	582 Prof. Len Gelman Condition Monitoring Techniques — Present and Future	438 Z Prevorovsky Nonlinear Ultrasonic Spectroscopy and Acoustic Emission in SHM of Aircrafts		127 A Volker Data-driven Imaging in Anisotropic Media	33 J Heida In-service Inspection Guidelines for Composite Aerospace Structures	534 C Bird A Phased Array Inspection Solution for the Assessment of Thin Stainless Welds		39 D Datta Imaging of Impacted Composite Armour using Data Clustering	529 J Lilley Pulse-echo Ultrasonic Inspection of Small Bore Nozzle welds
14.40-15.00		519 T Wakui Mercury cavitation damage evaluation by using nonlinear ultrasonic method		273 X Deleye Experimental comparison of wave-field based ultrasonic imaging with other advanced ultrasonic weld inspection	433 I Pitropakis Crack Detection on an Airbus A320 Slat-Track and on Aluminium 2024-T3 Plates using Extended Crack	615 J Liu Practice on NDE Licencing and Inspection Qualifications for Nuclear Power Plant In-service Inspections	237 D Slesarev Automated assessment of steel wire ropes residual life time based on magnetic NDT data	667 S Rolet Computer-aided analysis of ultrasound data to speed-up the release of aerospace CFRP components	147 S Hillmann High Resolving Eddy Current (EC) Imaging For The Characterization Of Thin-Film Solar Cells
15.00-15.20	601 Prof. Ian Jennions The Civil Aircraft of the Future - IVHM enabled	331 K Chougrani Detection of Transparent Cracks Using Non-linear Acoustics		248 T Ozeki Three-dimensional Image Reconstruction Method for Minute Internal Flaw by Use of Focused Ultrasonic Beam	166 A Maurer Latest Aerospace Composites Testing Solutions using off-the-shelf Industrial Robots	266 D Delacoux Weld root measurement by TOFD used to inspect FAC sensitive welds	271 Z Su Development of a Portable High-Precision Above Ground Marker System for an MFL Pipeline Inspector	213 C Li Ultrasonic Characterisation of Non-Planar Composites Using Full Matrix Capture of Array Data	442 CC Yin Detection of Water Transport through Membrane in a PEM Fuel Cell
15.20-16.00	Tea/Coffee Break								
	Chair: D Galar		AFNDT Conference Chair: J Guild / K Danso						
16.00-16.20		658 M Raj Development of an Ultrasonic C-Scan Imaging Technique for Optimization of Electro Magnetic Stirrer to Improve	672 M Venkatesh	242 BPC Rao Effective Nondestructive Imaging of Defects in Engineering Components	174 E Tosti Advanced NDT Diagnostics applied to the Control of Space Motors The experience in AVIO Space Division	344 L Truchetti Simulations and Impact on NDE Development and Qualification	401 B Hu Evaluating the Welding Residual Stress State by the Residual Magnetic Field Method	236 S Hillmann Testing of Carbon Fiber Materials (CFRP) using High-Frequency Eddy Current (HF EC) Techniques	292 L Hammar Novell design of high resolution imaging x-ray detectors

16.20-16.40	468 Prof. TH Gan Real-time monitoring system for defects detection in wind turbine structures and rotating components.	86 YM Cheong Images of Cracks using a Localized Nonlinear Ultrasonic Parameters	Role of the International Atomic Energy Agency in Promotion of Radiation Based Non Destructive Testing Techniques	404 J Lin Cloud Testing: Trend of the Development of Non-destructive Testing and Evaluation Techniques	496 MA Blanchet Inspection of Tail Boom/Fenestron Junction Frame on EC130 B4 Eurocopter Aircraft Using	386 S Trevin Optimization of EDF's NPPs NPPs Maintenance due to Flow Accelerated Corrosion and BRT-CICERO Improvement	498 M Kreutzbruck Adapted GMR Sensor Arrays used in Magnetic Flux Leakage Inspection	261 D Pain Detection of fibre waviness using ultrasonic array scattering data	397 M Firsching Detection of Enclosed Diamonds using Dual Energy X-ray imaging
16.40-17.00	659 Prof. G Y Tian Wind Turbine Inspection and Health Monitoring of Offshore Wind Farms	152 A Koskinen Differences in Ultrasonic Indications Thermal Fatigue Cracks and EDM Notches	112 DOM Zeyada The effectiveness of IAEA /AFRA projects in development and sustainability of NDT	422 V Hari Sankaran Acoustic Resonance Testing Using Transform Decomposition and Support Vector Machines for Efficient	240 J Schreiber Fatigue Life Assessment of Aircraft Alloys Using Fractal Analysis in Combination with Eddy Current Testing	395 T Loganathan Application of NDE on Intricate and Triple Point Weld Joints of Main Reactor Vessel for 500 MWe PFBR Project	182 E Gorkunov Estimating Residual Stresses in Heat-Treated Carbon Steels by Magnetic Parameters	368 W Sithole Characterization of Damages in Honeycomb Structures Using Sonatest DryScan 410D	409 R Scheepers The specification of target flaws in turbine blades
17.00-17.20		Gold Sponsor Satellite Symposium Olympus NDT Dr M Moles <i>Chair: Dr I Solodov</i> Advances in Phased Array and Other NDT Technologies	304 W Claassens Future Success of NDT Training in Africa	190 B Kapranov 3D Ultrasonic Imaging by Cone Scans and Acoustic Antennas	391 R Oster Non-destructive testing methodologies on helicopter fiber composite components - Challenges today and in the	533 D MacLennan Plastic Fantastic? - An NDE Inspection Solution for HDPE Butt Welds	183 E Gorkunov Magnetic Methods for Estimating Elastic Strains in Steel Structural Members	405 Y Zhan-Feng Nonlinear ultrasonic testing technique for micro-damage of TATB based Polymer Bonded Explosive	516 J Ji The Current Situation and Development of Nondestructive Testing in Chinese Higher Education
17.20-17.40			574 Felix Chembe Pipeline Integrity Management System: Supporting Daily Decision Making Activities Regarding Risk Assessment & Feature Prioritization	628 K Sahaimi Quality Management System in NDT Training Center	148 I Sikakana Evaluation of an X-ray Digital Radiography System	676 MNV Viswanath Evolution of Ultrasonic Testing for End closure welds for PHWR fuel elements at NFC	184 E Gorkunov Estimating the Stress-Strain State of the Stainless Steel Structural Steel Two-Layer Composite by Magnetic	303 M Vhareta Use of Raman Scattering to Study Fatigue Type processes in Polycrystalline Diamond (PCD)	518 J JingYuan The Current Situation and Outlook of the NDT Personnel Certification in China
17.40-18.00			652 K Nyirenda The State of Nondestructive Testing in Zambia			568 CS Camerini Development of a Magnetic Sensor for Detecting and Sizing Paraffin Deposition Inside Pipelines	678 C Calam Latest Developments in PMI Tools for Alloy Verification		
18.00-	Welcome Cocktail Reception								