

Tuesday 17 April 2012

Time	Tuesday 17 April 2012								
	Hall 1AB Invited Overview Talks	MR11/A UT: Phased arrays	MR11/B Signal Processing, Imaging, Inverse Problems	MR12/A Transport: Railroad, Axles, Rails	MR12/B Condition Monitoring	MR21/A Pipelines	MR21/B Electromagnetic, Eddy Current Methods	MR22/A Materials: Microstructure	MR22/B Equipment, Regulation, Welds
	<i>Chair: U Zscherpel</i>	<i>Chair: Y Cho</i>	<i>Chair: J Michaels</i>	<i>Chair: PJ Garland</i>	<i>Chair: L Gelman</i>	<i>Chair: C Buque</i>	<i>Chair: H de Wet</i>	<i>Chair: B Mathe</i>	<i>Chair: S Hillmann</i>
08.30-08.50			398 G Ballier Improvements on Tendon Duct Examination by Modeling and Imaging with Synthetic Aperture and One-Way	522 J Rudlin New Methods of Rail Axle Inspection	311 M Newby Quantification and Management of Grid Interaction Effects on Turbo-Generator Sets	364 R Shepard Choosing the appropriate Digital Radiography (DR) technology for the inspection of aboveground, non-piggable	202 Y He Signal Reconstruction and Feature Extraction in Pulsed Eddy Current Stimulated Thermography for Aerospace	441 G Guo Inspection of Kissing-bond Defect in Sandwich Structure by Shearography	418 M Stone Developments in the application of NDT data in integrity assessment of pressure equipment
08.50-09.10	595 Dr Uwe Ewert Essential Parameters and Conditions for Optimum Image Quality in Digital Radiology	243 J Schreiber Damage State Evaluation of X6CrNiNb18-10Alloys During Cyclic Deformation by Exploiting the Fractal Analysis	497 M Kreutzbruck Progress in Acoustical Defect Sizing NDT Methods for the Inspection of Power-Plant Components	572 P Marty Latest Development in the UT inspection of train wheels and Axles	50 A Oberholster The Removal of Speckle Noise from Torsional Laser Doppler Vibrometer Signals in Machine Health Monitoring	313 J Buechler A Portable Solution To Enable Guided Ultrasonic Inspection	669 L Udpa Development of Novel EC-GMR Sensor Systems for Inspection of Multilayer Structures with Steel	618 PP Nanekar Ultrasonic Characterization of Intergranular Corrosion to Monitor In-situ Degradation in Nuclear Waste Storage Tanks	537 S Fewell Informal Panel Discussion On NDT For Regulators
09.10-09.30	581 Dr Peter Willems The quest for digital X-ray detectors in NDT, an overview of technical solutions that made it to the market and some that did not.	247 O Casula Real-Time Inspection of Complex Composite Structures with a Self-Adaptive Ultrasonic Technique	76 N Brierley Improving the Reliability of Automated Non-Destructive Inspection	95 M Carboni Application of eddy currents to the inspection of fatigue-corroded railway axles	203 O Putkis Efficient Acquisition of Baseline Signals in Ultrasonic Guided Wave Structural Health Monitoring (SHM)	559 W Deutsch Ultrasonic Testing of Helical Submerged Arc-Welded (HSAW) Pipes	270 J S Spychalska A A novel approach for the Eddy Current inspection of the aerospace structures based on the signal modeling and signal	263 M Prohaska Influence of chemical composition and microstructural parameters on speed of sound of various	32 A Babakhani Work of Iranian Ultrasonic scanner for fault diagnostic of CNG cylinders at production lines
09.30-09.50		283 S Michau Development of innovative transducer designs for NDT applications: From 1-3 piezocomposite definition to	98 P Broberg Improved Image Quality in Phased Array Ultrasound by Deconvolution	239 N Meyendorf Development of Components for an Industry Approved Hollow-Axle Testing System	31 D Keqin Structural Health Monitoring System for the Crane Based on Bragg Grating Sensors	67 PH Allard Pipeline External Corrosion Analysis Using a 3D Laser Scanner	241 B Marchand Innovative Flexible Eddy Current Probes for the Inspection of Complex Parts	425 FS Mballa Mballa Multidomain modeling of the magneto-mechanical behavior of dual-phase steels	484 M Moles ASME Codes and Standards for Boiler Inspections
09.50-10.30	Tea/Coffee Break								
10.30-10.50		625 F Marefat Risk and Reliability of Radiographic and Phased Array Ultrasonic Test on the Boiler Connections, Based on	570 G Guse 3D Modeling and Visualization-SW for complex geometries	200 M Carboni A Model Assisted Probability of Detection approach for ultrasonic inspection of railway axles	661 T Uhl SHM of Rotating Machinery - Non-Classical Approach	51 Bill MacMillan A New Approach to Boiler, Pipeline and Turbine Inspections	178 X Wu Development of Pulsed Eddy Current Testing System for Wall Thinning through Insulation with Ferromagnetic	407 Z Wei-bin Characterization of Pressing Progress of RDX Crystal Grain by Cone-beam Micro-focus Computed Tomography	149 N Meyendorf A New Ultrasonic Phased Array Testing System for Dissimilar Welds
10.50-11.10	110 Ron Pinu A Review of Digital Radiography in the Service of Security	197 J Dziewierz Calculating a 3D Map of Sensitivity, Resolution and Contrast for 2D Sparse Phased Array Probes	412 K Mayer Ultrasonic Imaging of Defects in known Anisotropic and Inhomogeneous Structures with Fast Synthetic Aperture	171 G Landry Phased Array Scanner Head for train axle inspection	660 T L Lago Automatic Amplitude Estimation Strategies for CBM Applications		179 A Shubochkin Modern Electromagnetic Equipment for Nondestructive Testing	394 J Kastner Microstructure characterization of high-strength Al-alloys by high resolution X-ray computed	424 A Oberg Selection of Evaluation Methods for New Weld Demands: Pitfalls and Possible Solutions
11.10-11.30			354 N Pearson Practical limits of MFL in steel plate inspection	133 C Peng High-Power Locomotive Solid Axle Defect on-line Detection Technique	465 H Aktan Non-Contact Measurement Technologies for Structural Monitoring		113 T Jappinen Locating Magnetite on the Steam Generator Tubes with Eddy Current		540 D Braconnier Flaw Assessment Using Shear Wave Phased Array Ultrasonic Transducer
11.30-11.50	596 Frikkie deBeer Neutron Imaging - Practice and Role as a Complementary NDE Technique to X-Ray Imaging			649 KL McAughey Rail Track Condition Monitoring Using Electromagnetic Acoustic Transducers			13 V Syasko Eddy current thickness monitoring of aerospace technics coatings and constructions		654 CA Marinho Qualification Process and Inspection Validation of Computed Radiography Technique for DWDI Weld
11.50-12.00	Short Break								
12.00-13.00	Hall 1AB Keynote Lecture : 605 Robert J Potter: Methods of Determining Core Competencies of NDT Personnel								
13.00-14.00	<i>Chair: Ward Rummel</i>								
	Lunch Break								

	Hall 1AB Invited Overview Talks	MR11/A Poster Introductions Methods	MR11/B Poster Introductions Materials, CM	MR12/A Workshop on Qualification and Certification EN ISO 9712	MR12/B Transport: Railroad, Rails	MR21/A Pipelines	MR21/B Poster Introductions Application Areas	MR22 NDT International Meeting	Academia
	<i>Chair: D Comins</i>	<i>Chair: D Wamwangi</i>	<i>Chair: K Jakata</i>	<i>Chair: M Farley, J Guild</i>	<i>Chair: PJ Garland</i>	<i>Chair: F Chembe</i>	<i>Chair: B Mathe</i>	<i>Chair: B Raj</i>	
14.00-14.20		353 N Pearson 640 KY Gil			524 A Raude RAILECT The solution for volumetric assessment of aluminothermic rail welds	536 S Fewell Performance of long range ultrasonic inspection using guided waves for assessment of cased crossings on pipelines			
14.20-14.40	358 Dr Harry Ringermacher NDT : Surfing the Electromagnetic Spectrum	186 Y Bei 210 A Formigoni 219 J Guan 446 DG	675 R Diederichs 671 J Ausheva 439 K Park 451	See detailed program for this workshop elsewhere in the Conference program. Individual papers by J Thompson (493) M P Farley R Fallouey SK Alijah J Babu Guild	268 P Loveday Scanning Laser Vibrometer Measurement of Guided Waves in Rails 272 Q Fan A Novel Crack Location Method in Rails Based on Measured Transmission Coefficients of Guided Waves 627 FA Burger A Practical Continuous Operating Rail Break Detection System Using Guided Waves	535 S Fewell Guided wave ultrasonic testing as part of a piping inspection and integrity management programme 569 F Deneuille Magnetic Barkhausen Noise for hardness checking on steel pipes	25 W Lixin 374 Y Ma 666 L Pindor 93 N Migoun 94 N Migoun 169 W Tian 290 D Fratzscher 402 J Lin 342 J Peng 165 J Hola 557 WX Wu 153 B Tabakova 503 S Makhlouf 285 M Kos		
14.40-15.00		Y Ma 382 Y Ma 390 ZS Lim 99 P Broberg	F Fraudita 504 A Ziouche 189 V Troitskiy 553 A						
15.00-15.20	599 Prof. Jasson Gryzagoridis NDT : Based Nondestructive Inspection Techniques.	139 MY Choi 156 R Sikora 464 C Sumanya 245 Z Lin	Bianco 288 V Miroshnikov 163 V Chuprin 256 W Kim						
15.20-16.00	Tea/Coffee Break								
15.20-17.20	Poster Session in Exhibition Area								
16.00-16.20	584 Prof. Darryl P Almond Thermographic techniques for the detection of cracks in metallic components.				657 RK Ajmeria Non-Destructive Testing and Inspection of Rails at JSPL – Ensuring Safety and Reliability				
16.20-16.40		Gold Sponsor Satellite Symposium NDE Chair: Michael Reilly There's something about Eddy Current							
16.40-17.00									
17.00-17.20	598 Prof. Ermanno Grinzato IR Thermography Applied to Cultural Heritage Conservation			Continuation of Workshop on Qualification and Certification EN ISO 9712				Continuation of NDT International	Academia
17.20-18.00									
18.00-	Beach Party hosted by the City of Durban at New Beach								