

**Thursday 19 April 2012**

Time	<b>Thursday 19 April 2012</b>									
08.30-11.30	<b>Hospitality Suite 23 Workshop for Fledgling NDT Societies Chair: David Gilbert</b>									
	<b>Hall 1AB</b> Invited Overview Talks	<b>MR11/A</b> General, Acoustic Emission	<b>UT:</b> UT : Laser Ultrasound,Contact	<b>MR11/B</b> UT : Laser Ultrasound,Contact	<b>MR12/A</b> Civil Structures, Concrete	<b>MR12/B</b> Modelling	<b>MR21/A</b> Thermography	<b>MR21/B</b> Computed Tomography	<b>MR22/A</b> NDT Instruments, Techniques	<b>MR22/B</b> NDT of Wind Turbines, Energy
	<i>Chair: S Hirsekorn</i>	<i>Chair: P Loveday</i>	<i>Chair: N Declercq</i>	<i>Chair: J Kurz</i>	<i>Chair: P Calmon</i>	<i>Chair: D Almond</i>	<i>Chair: F de Beer</i>	<i>Chair: R Mabuza</i>	<i>Chair: GY Tian</i>	
08.30-08.50	<b>602</b> <b>Prof. Jennifer E Michaels</b> Signal Processing and Imaging with Ultrasonic Guided Waves: Goals, Challenges and Recent Progress	<b>622</b> <b>D Nguyen A</b> Novel Optical Fiber-Based Acoustic Emission System	<b>621</b> <b>VF Godinez An</b> Acoustic Emission Wireless Sensor Node for Structural Health Monitoring of Bridges Powered by Novel Energy	<b>650</b> <b>F Honarvar</b> Case Depth Profile Measurement of Hardened Components by Ultrasonic Backscattering Technique				<b>306</b> <b>B Becker</b> Computer Tomography has arrived in an automated inspection process combining material and geometry		<b>676</b> <b>C Boller</b> Realisation of Structural Health Monitoring in Wind Energy Rotorblades
08.50-09.10				<b>632</b> <b>A McLay</b> The Use of Ultrasonic Inspections at Elevated Temperature			<b>431</b> <b>C Gonzalez</b> Ultrasonic Thermal Imaging	<b>208</b> <b>A Kupsch</b> Reconstruction of Limited View Tomography Data by DIRECTT	<b>417</b> <b>F Hernandez-Valle</b> High temperature ultrasonic measurements using a pulsed-electromagnet EMAT	<b>639</b> <b>DJ Yoon</b> Acoustic Emission Sources Location of Damages in the Wind Turbine Blade
09.10-09.30		<b>352</b> <b>K McAughey</b> Investigation into the use of Bismuth Titanate as a High Temperature Piezoelectric Transducer	<b>637</b> <b>M Engman</b> Novel Technique for Velocity and Thickness Measurements with Laser Ultrasonics		<b>345</b> <b>F Foucher</b> Applications and recent evolutions of the CIVA Simulation Platform	<b>435</b> <b>G Arroud</b> Combining a new form of pulsed phase thermography with enhanced image-processing techniques to	<b>207</b> <b>A Kupsch</b> High Quality Reconstruction of Insufficient Tomographic Data by a New Iterative Procedure	<b>456</b> <b>G Vogt</b> PROline USB ultrasonic testing instrument - compact, powerful and flexible in component testing	<b>623</b> <b>V Godinez-Azcuaga</b> NDE Evaluation of Wind Turbine Blades Using Line Scanning Thermography	
09.30-09.50	<b>592</b> <b>Phillip T. Cole</b> Acoustic Emission and its NDT Applications	<b>487</b> <b>M Moles</b> Phased Array for Small Diameter, Thin-Walled Piping Inspections	<b>206</b> <b>M Lorenz</b> Ultrasonic Multi-Skip Inspection for Clamped Saddle Supports		<b>421</b> <b>PK Chinta</b> Three Dimensional Elastic Wave Modeling in Austenitic Steel Welds using Elastodynamic Finite	<b>359</b> <b>H Ringermacher</b> Thermal Imaging NDT at General Electric	<b>160</b> <b>M Kurfiss</b> 3-dimensional X-ray inspection of very large objects is no longer a promise only 600 kV Digital Laminography offers a	<b>573</b> <b>R Zeilinger</b> Submarine Nozzle Pipe Manipulator	<b>653</b> <b>CA Marinho</b> Petrobras' Developments in Underwater Inspection	
09.50-10.30	<b>Tea/Coffee Break</b>									
10.30-10.50		<b>481</b> <b>P Gebski</b> Structural Integrity Monitoring for Smelting Furnaces Based on Acoustic Emission Data Acquisition and Analysis	<b>633</b> <b>SS Lee</b> NDT Precise ultrasonic velocity measurement by laser ultrasonics	<b>124</b> <b>J Xu An</b> instrument for detecting corrosion in anchorage zones of parallel wire cables using guided waves	<b>336</b> <b>A Deresch</b> Simulating X-Ray Spectra: From Tube Parameters to Detector Output	<b>343</b> <b>IM Zainal Abidin</b> Advantages and applications of eddy current thermography testing for comprehensive and reliable defect assessment	<b>150</b> <b>F Herold</b> Fast and Analytical Exact Reconstruction of Large CT-Volumes	<b>175</b> <b>X Ding</b> Lift-off Performance of Receiving EMAT Transducer Enhanced by Voltage Resonance	<b>327</b> <b>H Rauschenbach</b> How to meet the present requirements of Non destructive Examination in Turbine field service	
10.50-11.10	<b>585</b> <b>Prof. K Balsubramaniam</b> Air Coupled Ultrasonic NDT and its applications	<b>321</b> <b>D Galanenko</b> GALS-1 AE System With Distributed Structure For Diagnostics Of Critical Objects	<b>125</b> <b>A Volker</b> Ultrasonic Multi-skip Tomography for Pipe Inspection	<b>120</b> <b>KB Sanish</b> Characterization of strength development of concrete using ultrasonic method	<b>508</b> <b>M Mbandezi</b> The Impact of the Variations of Crack Geometry on the Stress Concentration Factor on a Thin Plate Using Finite Element	<b>499</b> <b>M Kreutzbruck</b> Flying laser spot thermography for the fast detection of surface breaking cracks	<b>137</b> <b>J Kastner</b> High resolution X-ray computed tomography of fibre and particle filled polymers	<b>170</b> <b>J Buechler</b> High End Phased Array System for Automatic Inspections	<b>143</b> <b>N Meyendorf</b> Structural Health Monitoring for Aircraft, Ground Transportation Vehicles, Wind Turbines and Pipes Prognosis	
11.10-11.30				<b>363</b> <b>N Netshidavhini</b> Effects of Various Couplants on Carbon Steel, Perspex and Aluminium Materials By Means of Ultrasonic Testing	<b>308</b> <b>R Raillon</b> Validation of CIVA ultrasonic simulation in canonical configurations	<b>295</b> <b>A Gachagan</b> The vibrational response of a turbine blade under thermosonic excitation	<b>119</b> <b>V Voland</b> Novel techniques for high-resolution Computed Tomography of optoelectronic devices	<b>145</b> <b>S Hillmann</b> Aluminum Nitride Thin Films for High Frequency Smart Ultrasonic Sensor Systems		
11.30-11.50	<b>614</b> <b>Alfred Otto Barbian</b> In-Line Inspection of High Pressure Transmission Pipelines: State of the Art and Future Trends			<b>211</b> <b>K Schabowicz</b> Nondestructive Tests Of Heat Pipe Carrying Tunnel Wall Thickness By Means Of State-Of-The-Art Acoustic	<b>305</b> <b>GR Jaenisch</b> Mathematical modeling of radiography experiments	<b>234</b> <b>A Davis A</b> Heat Transfer Methodology to Monitor Flow Accelerated Internal Corrosion in Industrial Steam Pipes	<b>37</b> <b>J Hoffman</b> Characteristics of the Micro-Focus X-ray Tomography System at the MIXRAD Facility at Necsa in South Africa	<b>131</b> <b>G Sanko</b> Critical Cleaning Topics in NDT		
11.50-12.00	<b>Short Break</b>									
12.00-13.00	<b>Hall 1AB Keynote Lecture : 612 Dr Herbert Wigggenhauser: NDT in Civil Engineering: Research, Application, Validation and Training</b> <i>Chair: Gail Long</i>									

13.00-14.00	<b>Lunch Break</b>									
	<b>1A/B</b> <b>Invited Overview Talks</b>	<b>MR11/A</b> <b>NDT in Security</b> <b>EFNDT WG5</b>	<b>MR11/B</b> <b>Civil</b> <b>Structures, Concrete</b>	<b>MR12/A</b> <b>ICNDT</b> <b>General Assembly</b>	<b>MR12/B</b> <b>Material Characterization</b>	<b>MR21/A</b> <b>Thermography</b>	<b>MR21/B</b> <b>Poster Introductions</b> <b>Radiography, UT</b>	<b>MR22/A</b> <b>Poster Introductions</b> <b>TOFD, Modelling</b>	<b>AE</b>	<b>MR22/B</b> <b>Poster Introductions</b> <b>General</b>
	<i>Chair: H Ringermacher</i>	<i>Chair: K Osterloh</i>	<i>Chair: H Wiggerhauser</i>		<i>Chair: A Venter</i>	<i>Chair: E Grinzato</i>	<i>Chair: H de Wet</i>	<i>Chair: R Erasmus</i>		<i>Chair: B Beetge</i>
14.00-14.20	<b>611 Dr Martin Spies</b> Synthetic Aperture Focusing Technique (SAFT) and Time-of-Flight Diffraction Technique (TOFD) Ultrasonic Imaging – Past and Present	<b>474 K Osterloh</b> Approaching an understanding of risk: a subject for the EFNDT Working Group 5 NDT Technology for Public Security	<b>323 J Kurz</b> Condition assessment of reinforced concrete structures using automated multi-sensor systems		<b>520 M Rheinfurth</b> Evaluation of Fatigue Damage in Composite with Various Defects Using Air-coupled Guided Waves	<b>655 CA Marinho</b> In-service Flare Inspection by Unmanned Aerial Vehicles (UAV's)	<b>641 G Zhimin</b> <b>643 G Zhimin</b> <b>231 V</b> <b>233 V</b> <b>282 N</b> <b>92 R</b> <b>315 M</b> <b>356 V</b> <b>235 A</b> <b>426</b> <b>116 B</b> <b>381 J</b> <b>575 A</b> <b>434 Y</b> <b>436 C</b> <b>129 A</b> <b>Volker</b>	<b>52 W Li</b> <b>54 W Li</b> <b>185 JO</b> <b>249 S</b> <b>385 U</b> <b>564 M</b> <b>450 P</b> <b>380 KY</b> <b>89 M</b> <b>162 B</b> <b>258 J</b> <b>333</b> <b>C Bellon</b>		<b>565 DH Kim</b> <b>440 IS S. Souza</b> <b>83 A Runnemalm</b> <b>188 P Nilsson</b> <b>471 Y Kai</b> <b>168 W Tian</b> <b>365 M Breit</b> <b>558 G Jin Qi</b>
14.20-14.40		<b>201 I Pushkina</b> Equipment Based on NDT Technique and Used in Security and Safety Provision Systems	<b>554 A Bianco</b> Point of View About Diagnostic Investigation for Metallic and Wooden Chains, Between Innovation and Validating		<b>118 YD Kubelwa</b> How well Does the Poffenberger-Swart Formula Apply to Homogeneous Compact Overhead Line	<b>111 V Vavilov</b> Modelling Thermal NDT Problems				
14.40-15.00	<b>613 Prof. Younho Cho</b> Model Based Guided Wave NDE; The Evolution of Guided Wave NDE from “Magic” to “Physically Based Engineering Tool”	<b>134 W Swiderski</b> Microwave Radiation in Thermal Detection of Buried Objects - Modeling and Experiments	<b>410 D Algernon</b> Signal Processing for Air-Coupled Impact-Echo using Microphone Arrays		<b>515 MNI Ahmad</b> Ultrasonic Characterization of Standing Tree	<b>35 S Koch</b> In-line Inspection of Hot-Rolled Steel Billets by Heat Flux Thermography				
15.00-15.20					<b>172 R Alami</b> The Radiography in the Service of the Preservation of the Moroccan Historical Heritage					
15.20-16.00	<b>Tea/Coffee Break</b>									
15.20-17.20	<b>Poster Session in Exhibition Area</b>									
16.00-16.20		<b>Gold Sponsor Satellite Symposium</b> <b>GammaTec Marco Gonzalez</b> Computed Radiography - General principles, - Technology and benefits - Common misunderstandings - Methods for testing and evaluating CR systems								
16.20-16.40	<b>593 Prof. Darrell Comins</b> Light Scattering Techniques Applied to NDE									
16.40-17.00										
17.00-17.20	<b>597 Dr Trey Gordon</b> Material State Awareness and NDE in CFRP Aerospace Structures			<b>Continuation of ICNDT General Assembly</b>						
	<b>Conference Banquet 19.00 for 19.30</b>									