

Scientific Program ACNDT2016 / IC-WNDT-MI'16

Friday, November 25, 2016	
15h00-19h30	Reception and Registration at Hotel EDEN PALACE Ain-Turck Oran
20h00	Dinner
Saturday, November 26, 2016	
08h00	Departure to Centre de Recherche en Anthropologie Sociale et Culturelle (C.R.A.S.C) El-M Naouer - Technopôle de l'USTO, Bir El Djir, Oran
09h00-9h30	Opening Ceremony Centre de Recherche en Anthropologie Sociale et Culturelle (CRASC)
<u>09h30-11h45: 03 Plenary Sessions (Presidents: M. Zergoug, A. Badidi bouda, M. Farley)</u>	
9h30-10h10	Plenary Conference I "Positrons as Non Destructive Characterization tool" Pr. AOURAG Hafid
10h10-10h50	Plenary Conference II "The importance of NDT and NDT Research" Dr. Mike Farley (ICNDT PGP Chairman)
10h50-11h10	Coffee break
11h10-11h45	Plenary Conference III "Enjeux de l'accréditation 17020,17024,17025 dans le CND" Mr. Boudissa
11h45-13h00	Departure to Hotel EDEN PALACE
13h00-14h00	Lunch Break
14h00-16h00	Oral Session I Room: 1 (ACNDT2016) Room: 2 (IC-WNDT-MI'16)
16h00-16h30	Coffee break
16h30-18h30	Oral Session II Room: 1 (ACNDT2016) Room: 2 (IC-WNDT-MI'16)
18h30-19h00	Poster Session I/B
20h00	Dinner
Sunday, November 27, 2016	
<u>08h30-10h10: 02 Plenary Sessions (Presidents: M. Farley, T. Boutekjirt)</u>	
8h30-9h 30	Plenary Conference I "Acoustic in NDT field" Pr OSMANI Universite de Valenciennes
9h30-10h10	Plenary Conference II "Certification of NDT and CM Personnel" Dr. Mike Farley
10h10-10h40	Coffee break
10h45-12h50	Poster session II
<u>10h45-12h50: 01 Plenary Sessions (Presidents: F. Herelli, M. Zergoug)</u>	
10h45-12h50	Panel discussion on Qualification of NDT Personnel' Dr. Mike Farley (ICNDT PGP Chairman) Dr. Harold Jansen (AFNDT & SAIW)

	Farid Herelli (AFNDT) Cooperation IAEA- AFNDT	
13h00-14h00	Lunch Break	
14h00-16h00	Oral session III Room: 1 (ACNDT2016) Room: 2 (IC-WNDT-MI'16)	
16h00-16h30	Coffee break	
	Poster session III/A	
16h30-18h30	Oral session IV Room: 1 (ACNDT2016) Room: 2 (IC-WNDT-MI'16)	
18h30-19h00	Poster session III/B	
20h00	Dinner	
Monday, November 28, 2016		
<u>08h30-10h10: 02 Plenary Sessions (Presidents: S. Lebaili, Y. Benkheda)</u>		
08h30-09h30	Plenary Conference I "Diamond Tool Wear in Diamond Turning of Rapidly Solidified Optical Aluminium" Pr. Khaled Abou-El-Hossein	8 ^h 45-12 ^h 30 Meeting of the ICNDT Policy and General Purposes Committee (Room: 2)
09h30-10h10	Plenary Conference II "On the JMAK kinetics of phase transformations in metals" Pr. M. BOUABDELLAH	
10h10-10h40	Coffee break	
	Poster session IV	
10h45-12h30	Oral session V Room: 1 (IC-WNDT-MI'16)	
12h30-13h00	Closing Ceremony	

Oral Sessions

November 26, 2016

Oral Session I

Room 1 (ACNDT2016): Ultrasonic NDT Methods (Presidents: R. Draï, M. Osmani)

14h00-16h00	Weld Defects Recognition and Classification using Ultrasonic Signals Naima MEZHOUD , Fairouez BETTAYEB, Yacine AMARA, Abdenour LABED
	Measurement of thickness of thin metal sheets by the A0 Lamb mode at low products frequency thickness S. Sait , F. Boubenider
	The technique enabling measurement of the dispersion influence of the phase velocity of Lamb wave signals propagating in the higher dispersion zone L. Draudvilienė, H. Ait Aider
	Non-destructive testing of concrete cover using spectral analysis of ultrasonic surface waves Morad GRIMES , Zoubir Mehdi SBARTAÏ, Nabil YACEF
	The defaults geometry influences's on the propagation of the guided waves Numerical study with finite elements method Nadia HARHAD, Soumia CHAIEB EDRAA
	Increased your Asset integrity using the latest UT, non-intrusive corrosion monitoring Technologies Thaer Alkhouri
	Ultrasonic TOFD Technique for Cracks Sizing and Locating Based on PSO Yacef Nabil , Bouden Toufik, Grimes Morad
	THEORETICAL AND NUMERICAL STUDY OF THE REFLECTION OF AN ULTRASONIC PULSE RADIATED BY A LINEAR PHASED ARRAY TRANSDUCER AT A FLUID-FLUID INTERFACE A. Oudina , H. Djelouah
Ultrasonic attenuation in trabecular bone: Theoretical approach and experimental measurement Bennamane Abderrazek , Boutkedjirt Tarek	

Room 2 (IC-WNDT-MP'16): Theme 1Welding, welding metallurgy, simulation of process, residual stresses in welding, electric Arc, plasma...etc. (Presidents: R. Badji, S. Frappart)

14h00-16h00	Evaluation of the Corrosion Behaviour of Friction Stir Welded High Yield Strength Steels by Scanning Electrochemical Microscopy Simon FRAPPART , Loic Grégoire, Philippe Missoffe
	Experimental study of metal transfer of CMT welding Bachir MEZRAG , Ismail BOURI, Frédéric DESCHAUX BEAUME, Mustapha BENACHOUR
	Joining of polymer-metal lightweight structures using self-piercing riveting technique: context of study, numerical approach and preliminary results Elias AMRO , Afia KOUADRI-HENNI, Vigen ARAKELIAN
	Effect of resistance spot welding parameters on mechanical behavior of thin sheet BENACHOUR Mustapha , LARBI CHERIF Mohamed
	Numerical modelling of hybrid laser friction stir welding of aluminum alloy Oussama Mimouni , Mohamed Hadji, Nabil Chekroun, Riad Badji, Afia Kouadri-David, M'hamed djelloul abbou
	A comparative study between pulsed and unpulsed Ti-6Al-4V alloy TIG welds B. Mehdi , R. Badji, L. Rabahi, N. Kherrouba, V. Ji, B. Alili, D. Bradai, F.D. Beaume
	SEM/ DRX / EBSD characterization of electric submerged arc welded of an industrial low carbon steel Semcheddine DERFOUF Amria BOURAS , Nourdine BELGHAR

16h00-16h30

Coffee break

Oral Session II

Room 1 (ACNDT2016): NDT for Material Characterisation (Presidents: K. Cain, M. H. Alaalam)

16h30-18h30	Thermography for. Face Recognition Application Z. Mentouri , M. Zergoug, S. Ziani, H. Bourouba, A. Moussaoui
	The finite element method and the Infrared Thermography principle applied to the control of homogeneity between a weld and the structure to weld Sougrati Belattar
	Acoustic Emission Monitoring of high risk installation in industrial environment Hamid HAFID , Alain PROUST, Richard DUNOYER, Omar AL HAJ
	The Effect of Laser Treatment on the Erosion Resistance of a CU copper -NI Austempered Ductile Iron Mohamed H. Alaalam , Abdussalam M. Drah
	Crystallization kinetics phenomena assessment in a glass-ceramic material, by non-destructive spectroscopic methods D. Moudir , N.Kamel, A. Benmounah, A.Djeridi, A.Sari, Y. Mouheb, S.Kamariz, F.Aouchiche
	Study of the effect of γ -ray irradiation on the optical properties of polyethylene terephthalate polymer K. Chikaoui , M. Djebara, R. Yefsah, M. Siad, M. Abdesselam
Magneto-electric and magnetic studies of the Sr-doped Samarium manganite synthesised by citrate gel method E. Lakhel , A. Amira, R.Chihoub, S. P. Altintas, A. Varilci, C. Terzioglu	

Room 2 (IC-WNDT-MP'16): Theme 2 Metallic materials Elaboration, forming, phase transformations, simulation, mechanical behavior (Presidents: Y. Benkeedda, K. Abou-El-Hossein)

16h30-18h30	Effect of cold rolling on texture evolution during primary recrystallization of an IF steel M. Ramoul , A. Ayad, N. Rouag
	Experimental study of shot peening effect on the surface of austenitic stainless steels: roughness, residual stresses and work hardening Mohamed Chaib , Mohamed Belhamiani, Abdelkader Megueni, Abdelkader Ziadi, F. Javier Belzunce
	Influence of sintering temperature on the densification of copper matrix composite reinforced with CoAl particle developed by SHS K. KHELOUI , S. AZEM, M. NECHICHE
	First principles study of the new half-metallic ferromagnetic full-Heusler alloys $\text{Co}_2\text{CrSi}_{1-x}\text{Ge}_x$: An ab-initio study I. Asfour , D. Rached
	Numerical analysis of Hydrogen embrittlement of CrMo and CrMoV steels using Monte Carlo method Soumia Ourrad , Youcef Houmadi, Abdelkader Ziadi, F. Javier Belzunce

November 27, 2016

Oral Session III

Room 1 (ACNDT2016): Electromagnetic NDT Methods (Presidents: H. Jansen, A. Benson)

14h00-16h00	Non intrusive stochastic finite elements method applied for non destructives NDT problems Azouaou Berkache , Zehor Oudni, Hassane Mohellebi, Taib Brahimi Abdelhalim
	Fast Finite Element Computation for 3D Eddy Current Testing Problems with T-Ω Formulation M. Hamel , H. Mohellebi, F. Hocini
	3D Phase Measurement : get your accurate 3 dimensional surface scans and measurement while simplifying your inspection process Hafees Faisada
	Harmonized system for the training, qualification and certification of personnel, implemented within the French Confederation for NDT (COFREND) André CHARBONNIER
	Stress and temperature effects study on anhysteretic curves behavior of magnetostrictive materials TAMAZIRT Souad , MOHELLEBI Hassane
	Reconstitution of complex defects with the method of neural networ: Application for the nondestructive evaluation A. Harouz , H. Mohellebi, M. Hamel
	DO PERMANENT MAGNETS WORK? Keith Cain , Marius Purcell
	Study of the Effet of the Geometry Shape of defect on the Reliability of NDT Device Z. Oudni , H. Mohellebi

Room 2 (IC-WNDT-MI'16): Theme 3 Composite and ceramic materials (Presidents: M. Azzaz, M. Bouabdellah)

14h00-16h00	Study of the repair of the pipes damaged by patch in composites AZZOUZ Achewek
	Reliability-simulation of composite tubular structure by finites elements method–Mechanical loading A. Maizia , A. Hocine, A. Ghouaoula, D. Chapelle, H. Dehmous
	Structural and electrical Properties of the ceramic manganite $Pr_{0.6}Sr_{0.4}Mn_{1-x}Cu_xO_3$ R.Chihoub , A. Amira, E. Lekhal, A. Varilci, S.P. Altintas, C. Terzioglu
	Elaboration and Characterization of PbS nanorods trapped in Y zeolite H. Tebani , N. Keghouche
	Comparison of IR Spectra of Five Porcelain Compositions Prepared Using Algerian Raw Materials S.Kitouni , A. Harabi
	Contribution à l'étude du comportement du composite verre/polypropylène par la technique de nano-indentation instrumentée A. Mokhtari , N. Tala Ighil, A. Brick Chaouche, K. Bettahar
	A new and economic approach to synthesize and fabricate anorthite based ceramics using kaolin and CaCO ₃ S. Zaiou , I. Serradj, A. Harabi
	The effect of Sintering condition on the microstructure and Electrical Conductivity of Apatite- type La _{9.33} (SiO ₄) ₆ O ₂ ceramic A. Saoudel , N. Azzouz, S. Boulfrad and J. T. SIRR Irvine
	Modeling and optimization of the composite plates laminated by genetic algorithm SAFER M , Belkheir F

16h00-16h30 Coffee break

Oral Session IV

Room 1 (ACNDT2016): New NDT Tools (Presidents: K. Cain, A. Benammar)

16h30-18h30	Computed radiography : Application and benefits for profile inspection Haitham Ibrahim
	Investigating applicability of discontinuous Galerkin methods towards structural health monitoring in transportation Salah-Eddine HEBAZ, Farouk BENMEDDOUR, Emmanuel MOULIN, Jamal ASSAAD
	A comparison of two powerful optimization methods, genetic algorithm and practical swarm optimization for the design of waveguide filters I. Bouchachi, I. Messaoudene, M. Boudjerda, A. Reddaj, K. Ferroudji, M.L. Riabi
	Multistep Relaxations in a Spin-Crossover Lattice with Defect: a Spatiotemporal Study of the Domain Propagation Rachid Traiche, Hassane Oubouchou, Jorge Linares, Mourad Zergoug and Kamel Boukheddaden
	Temperature Effects on Thin film Based SPR-Sensor S. Benaziez, Z. Dibi, N. Benaziez, B. Abdelhadi
	Radiographic Weld Images Denoising Using Wavelet-Based Technique Fatma Zohra BOUDANI, Nafaa NACEREDDINE
	Testing the setting and hardening of concrete using the prism technique F. Kemihaa, A. Bouhadjerab, M. Grimes, T. Benkedidah
	Monitoring of cracking in reinforced concrete beam by using Digital Image Correlation (DIC) and Acoustic Emission (AE) A. BELBACHIR, S.Y. ALAM, M. MATALLAH, A. LOUKILI

Room 2 (IC-WNDT-MI'16): Theme 4 Corrosion and materials protection, pitting corrosion, stress corrosion, coating, thin films, ...etc. (Presidents: T. Chouchane, H. Meradi)

16h30-18h30	Improvement in Nano-hardness and Corrosion Resistance of XC48 samples by plasma immersion ion implantation M. M. ALIM, N. SAOULA, R. TADJINE, F. HADJ-LARBI, A. KEFFOUS and M. KECHOUANE
	SURFACE CONDITIONS EFFECT ON THE CORROSION BEHAVIOUR OF STEEL REBAR IN SIMULATED CONCRETE PORE SOLUTION Somia BELKHIR, Hakim BENSABRA, Noureddine AZZOUZ, Agnieszka FRAN CZAK, Omar ABOUBI, Jean Paul Chopart
	DURABILITY OF CONCRETE UNDER THE INFLUENCE OF SULPHATES ATTACK IN THE REGION OF OUARGLA – ALGERIA Mohammed-Amin BOUMEHRAZ, MELLAS Mekki
	The inhibition effect of Gum Arabic (GA) On the corrosion of carbon steel in H ₂ SO ₄ medium Hicham TAQUI, Ahmed LOUAFI, Hamza Bentrach, Abdelouahad Chala
	NUCLEATION AND FORMATION OF OXIDE FILM UNDER A MAGNETIC FIELD M. Amirat, A. Beloufa and A. Dekkiche
	Structural, Morphological and Optical Properties of Zn(1-x)Cd _x O thin films by spray pyrolysis method A. SERRAR, K. BOUZID, A. ABDELHAK, A. ROUSTILA
	Identification of Fe-Al intermetallic phases in aluminide coatings on mild steel Sabrina Mendil, Kamel Taïbi, Said Azem
	Effect of some experimental conditions on the electroplated Mn-Bi film composition S. Boudinar, N. Benbrahim, B. Benfedda, A. Kadri, E. Chainet

November 28, 2016
Oral Session V

Room 1 (IC-WNDT-MP'16): Theme 4 Corrosion and materials protection, pitting corrosion, stress corrosion, coating, thin films, ...etc. (Presidents: T. Chouchene, A. Haddad, H. Meradi)

10h45-12h30	A comparative study of potentiostatic and pulsed Electrodeposition of ZnS nanostructures K.GHEZALI , L.MENTAR, B. BOUDINE, A.AZIZI
	Evolution of texture and residual stresses with the thickness for AlN films deposited by dcMS on Si (100) B. Riah , A. Ayad, J. Camus, M.A. Djouadi, N. Rouag
	The influence of annealing temperature and mercury doping (Hg) on nanostructures thin films of TiO ₂ obtained by sol-gel method F. Abbas , R. Bensaha
	Influence of oxygen fraction on the deposition of Al ₂ O ₃ thin film onto the steel by magnetron sputtering A. Hammouche , N. Saoula, N. Madaoui, L. Zougar, D. Dergham, L. Bait
	Copper Oxide Thin Films Deposited by Radiofrequency Magnetron Sputtering: Photovoltaic Applications R. Tadjine , A. Haouimi, M.M. Alim, M. Kechouane
	Elaboration et caractérisation morphologique et mécanique des couches minces de ZrN déposées par ablation laser I. GHEMRAS , S. ABDELLI-MESSACI, M. IZERROUKEN, K. YAHIAOUI, S.LADJOUZI, M.BOUAKIL
	Properties of thin films Cr-N, Cr-Mo-N, Ti-Al and Ti-Al-N, prepared by PVD H. Berkane , L. Chekour, Y. Benlatreche, I. Rahil
First principle investigation of structural, electronic and optical properties of Er-doped (ZB) ZnO using modified Becke-Johnson exchange potential E. A. Alkahtani , A. E. Merad, M. R. Boufatah, A. Benosman	

