

## Scientific Program ACNDT2016 / IC-WNDT-MI'16

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

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

## Poster Sessions (Hall)

November 26, 2016

14h00-16h00

### Poster session I/ A (ACNDT 2016)

<i>Code</i>	<i>Author</i>	<i>Title</i>
001	B. Smili	Studies of temperature-dependent behavior and crystallization of metallic glass alloys determined by a new device «NDT» for simultaneous measurements of electronic transport
003	Djebbara Benzerga	Behavior and damage of welded structures with defects : Application to pipeline
007	Daheche Bilal	Flare Test, an application on the welded steel tubes, study with simulation
010	F. Moumen	Comparative Numerical Simulation of blood flow in the cases of left sub-clavian artery sténosis and aortic coarctation
020	Abderrahim HADJ LARBI	THE VARIATION OF THE GAP WITH HYDROSTATIC PRESSURE OF THE FLUOROPERVSKITE RbZnF <sub>3</sub> COMPOUND
026	CH. Erredir	Teaching Learning Based Optimization Neural Networks for Waveguide Filter Modeling
028	MOHAMED MOKHTARI	Electrical characterization of the contact between the composite grains by dielectric spectroscopy
035	SAFER Omar Adib	Eddy-current non-destructive testing system using a magnetic sensor based on GMR
039	S. Triaa	Electromagnetic and Hyperfrequency Conductivity of Polymer and Iron based Nanocomposites
040	Merzouk HALIT	SPIN CROSSOVER MATERIALS BASED ON FUNCTIONALIZED MACROCYCLE LIGANDS
042	Bouchra Abou El Anouar	A comparative experimental study of ultrasound technique and vibration analysis in detection of bearing defect
062	M.H.TEDJINI	A first-principles study of the physical properties of CdX (S, Se,Te) compounds materials for using in radiation and optical applications
065	CH. Erredir	Swarm Optimization Algorithm Inspired in the Behavior of the Social-Spider for Microwave Filters Optimization
066	A. Hedir	Dielectric Characterization of Thermally Aged XLPE Used as High Voltage Cable Insulation
077	Kaddour Gherfi	Edge detection in an infrared image in steel and metallurgical domain
089	OKBA Fouad	Characterization of micro cracks growth generated by Ion Co-Implantation
093	Hamid Boutoutaou	Modeling and Simulation of the Defect Form Effect on Mechanical Behaviour of Shrink-Fit Assemblies
102	Yassine Adjal	Theoretical investigation of damage detection in composite structures using harmonic response technique
107	I. Messaoudene	Rectangular Dielectric Resonator Antenna with Stacked Ba <sub>x</sub> Sr <sub>1-x</sub> TiO <sub>3</sub> Ceramic film
129	O. Boudrifa	STRUCTURAL, MECHANICAL, ELECTRONIC, ELASTIC, AND CHEMICAL BONDING PROPERTIES OF HYDRIDES Sr <sub>2</sub> RuH <sub>6</sub> : AN AB INITIO STUDY
130	Yahia lahssene Yamina	Driver's drowsiness detection by vision
131	F. Khathyri	Non destructive testing of different structure of composite with infrared thermography and ultrasonics
140	Mohammed Ouali	Numerical Damage Localization in Beam like Structures by using Modal Strain Energy Ratio Based Method
141	MESSAOUDI Rahma	Test of multilayer concrete structures by ultrasound
150	L.Boukerdja	Status of Neutron Tomography at the Nuclear Research Centre of Birine: Principles and facility characteristics
151	Abraham O.	NON-DESTRUCTIVE EVALUATION OF BURNT BRIDGE AT CH. 57+450

	OLANIYI	ALONG ABUJA-ABAJI-LOKOJA ROAD, NIGERIA
164	AZIEZ SIHAM	Numerical simulations of the propagation of Chirped Vector Soliton in optical fibers with variable coefficients in the presence of third order dispersion and power law nonlinearity
167	Fairouz Bettayeb	Is the occurrence of an attractor in a multi-scale Ndt computer based data analysis a good indicator of Chaos theory data modeling?
184	S. Ahmed	Influence of temperature on polarization and depolarization current in XLPE insulated cable subjected to the DC electric aging

### Poster session I/ B (ACNDT 2016)

187	T. Ounnoughi	Surface potential distribution on PVC samples charged by corona discharge
193	S. Laddada	Time of Flight (TOF) Estimation of Overlapping Ultrasonic Signals Using Wavelet Transforms
198	L. YOUNES	Study of residual stresses of indentation in the glass
219	Sonya REDJALA	UV radiations impact on the mechanical and physicochemical properties of polycarbonate
225	Issam Attoui	Rolling Bearing Fault Diagnosis using SVM, Frequency Kurtosis and Entropy Techniques
227	S. Megherfi	Study of propagation compartment of partial discharge pulses in transmission electric power cable 18/30 kV subjected to the electric aging DC voltage 60 kV
230	H. Bouhani benziane	Electronic and magnetic properties of Ba <sub>2</sub> CoWO <sub>6</sub> : First principal investigation
233	BOUAMAMA Mohamed	vibrations of sandwich beams FGM
236	S. LEMLIKCHI	Estimating overlapped backscattered echoes from thermal sprayed coating using the maximum likelihood approach
241	Belaribi Hassiba	RELATION ENTRE LA RESISTANCE A LA COMPRESSION ET UPV DU BETON AVEC DES FIBRES EXPOSEE A DES TEMPERATURES ELEVEES
242	Belaribi Hassiba	Prediction of compressive strength of Concrete with steel fibers exposed to high temperatures by artificial neural networks
243	BEDOUD Khouloud	Gas Sensors Elaboration Based to SnO <sub>2</sub> and ZnO: application to the detection of CO, CO <sub>2</sub> & NH <sub>3</sub>
250	Rezaiguia Mansouria	Study of the structural, electronic and magnétique proprieties of PrCoO <sub>3</sub>
260	O. Benaouda	Comparative Performance Study between DTC_C and DTNC Multi-level Inverter Fed DSIM
261	H. Berrached	Bayesian Inference for Image Reconstruction in X-Ray Tomography
267	S. AOUABDI	Using Multivariate Statistics & Multi-Scale Entropy to Monitor Gears Degradation and Signal Denoising Strategy using Wavelet Decomposition
270	N. Harb	Defects dispersion studies in composite structures has polymer matrix
282	ABER Chifaa	Innovative Eddy Current Probes Characterization Of Micro Defects
284	Z. Guezoui	Conception et Optimisation d'une Antenne Patch Rectangulaire pour les Tests Non Destructifs (CND)
285	BENYAHIA Ahmed	Human Liver Tissue Characterization Using Backscattered Ultrasound Signals Mean Scatterer Spacing
288	Rabah ABDELKADER	Condition Monitoring and Fault Diagnosis of Bearing Using Hybrid Method Based on EEMD and Minimum Entropy Deconvolution
297	M. S. Hamache	Magnetic Flux Leakage Analysis Around Pipeleine Defect Using Finite Elements Method
304	R. RACHIDI	Non-destructive testing of adhesion defects in Ni-WC coating by focused ultrasound method using a phased array probe
314	Nikhil Gopalkrishnan	Assessment of fire affected concrete structure by NDT- A Case Study
315	S. Benalia	Contribution of the comprehension of nanostructured (Fe <sub>65</sub> Co <sub>35</sub> ) and (Fe <sub>65</sub> Co <sub>35</sub> ) <sub>90</sub> Cr <sub>10</sub> some structural and magnetic properties

331	L. CHERRAD	Application of Diagonally Relaxed Orthogonal Projections (DROP)- conjugate gradient and Kaczmarz method for X Rays reconstruction image
336	Melzi Nesrine	Influence of induced phenomena during a dressing operation of a turning process
339	Merazi Sayah	Contribution to the minimization of vibration of rotating machines
341	Faiza Mekhalfa	Weld Defect Classification in Industrial Radiography through Hu and Zernike Moments

November 27, 2016

10h10-10h40

## Poster session II (IC-WNDT-MI'16)

### Theme 1 / Theme2

#### Theme 1 Welding, welding metallurgy, simulation of process, residual stresses in welding, electric Arc, plasma...etc.

<i>Code</i>	<i>Author</i>	<i>Title</i>
038	L. KABA	Etude de soudage TIG d'un alliage d'aluminium 2219 appliqué dans l'aérospatial
142	Tahar Madani	Thermal analysis of friction stir welding on AA6061 aluminium alloy using COMSOL
171	A. Deliou	Fatigue behavior of welded joints in X70
175	Habib Lebbal	Experimental study of shot peened and not peened similar resistance spot welds of ferritic and austenitic stainless steels: residual stresses and mechanical properties
208	Khatir Mohamed	Impact of the heat treatments on the microstructure of the aluminum alloys 7075 T6 welded by the friction stir welding process
248	Mouloud AISSANI	Numerical modelling of an aluminium alloy welded by a TIG process and experimental validation
253	Kaid Mustapha	Comparaison entre le soudage FSW et le soudage Bout a Bout pour le polyéthylène à haute densité (PEHD)
258	S. Benharat	Behaviour of the electric arc for different times and for different values of welding currents
272	A. KELLAI	L'effet du traitement thermique et le métal d'apport sur le comportement structural et mécanique d'une soudure en acier inoxydable duplex
276	Youcef-Amine MASMOUDI	Heat source modeling of keyhole Laser welding process: Models analysis
281	A. Kouadri-Henni	Simulation and calculation of residual stresses of magnesium AZ91-D alloy welded by laser beam process
287	Saad Chaouch	Multi-Function Converter Digital-control implemented by dSPACE and Arduino boards: Application to arc welding power source
307	L. Rabahi	Morphology and Mechanical properties of $\alpha$ grain boundary during TIG welding process
321	H. Nezzari	Determination of residual stress by X-ray diffraction in a weld cordon
334	L. Belgacem	Welding assembly of thin plates of 7075 T6 aluminium alloy

#### Theme 2 Metallic materials Elaboration, forming, phase transformations, simulation, mechanical behavior

<i>Code</i>	<i>Author</i>	<i>Title</i>
002	Y. ZIDI	Structural and magnetic properties of TbMnSi and LaMnSi compounds in CeFeSi-type
005	Meriem KAB	Study of intermetallic compounds of X182CrN11-1 steel hot dipped into molten aluminium
022	M. Beldi	Characterization of nanostructures Ti80Ni20 powder mixtures elaborated by mechanical alloying
029	A.Djeridi	Phase transition phenomena in an iron phosphate glass and thermal stability criteria
034	Abderrahmane	Bending of laminated beams using Timoshenko model via nonlocal elasticity

Besseghier		
036	A.Boulegane	Study the structural, electronic and elastic properties of CuS and CuTe using FP-LMTO method
037	M. Mehenni	Analytical Characterization of Nd <sub>2</sub> Fe <sub>14</sub> B sintered magnet
044	A. Boulassel	Elaboration of Metallic oxide nanopowder Fe doped ZnO
067	Fatima Zohra Lemmadi	Effect of ageing on structural, microstructural and mechanical properties of Al-Mg-Si alloy
068	IMENE LAMIRI	STUDY OF THE RELATIONSHIP BETWEEN THE NEW REACTION AT LOW TEMPERATURE IN Au-Ag-Cu SYSTEM AND THE COPPER RATE
072	Boura Mohammed	Impact resolution methods of contact on the mechanical behavior of structures
076	M.Bendoumia	Study of the structural evolution of Ni <sub>50</sub> at Al <sub>50</sub> at mixture during mechanical alloying
083	L. FAGHI	Synthesis and characterization of nanocrystalline Fe <sub>53</sub> %Si <sub>28</sub> %B <sub>19</sub> % Alloy prepared by high energy ball mill
086	H. Bouhabila	INFLUENCE OF ROUGHNESS ON FRICTION AND WEAR CONTACT PiN-CYLINDER: STEEL-STEEL
114	K.SLIMANI	Simulation of the propagation of cracking by finite element code calculation of a supermartensitic stainless steel pipe
124	D.Lamrous	Effect of Magnesium addition on the microstructure of Al-Zn-Mg alloys
125	H. Fiad	Study of nickel silicide by X- ray diffraction
128	S. Bourahla	Heat treatment effect on structure evolution of Al-Li 8090 Alloys
134	Mohamed Tourab	Effect of roller burnishing parameters on roughness surface and hardness of steel S355J0 specimens by using response surface methodology
135	Sofiane Abdelhadi	STRUCTURAL, ELECTRONIC AND OPTICAL OF Zn <sub>1-x</sub> Mg <sub>x</sub> Te
138	A. Ouchtati	Behaviour of dislocations near phase boundaries in the anisotropic linear elasticity theory
143	R. BENCHOUIEB	EFFECT OF MULTI-PASS HOT ROLLING ON RECRYSTALLISATION BEHAVIOUR OF FERRITIC STAINLESS STEEL TYPE 409
156	R. Bellili	Study Ni <sub>70</sub> Al <sub>20</sub> Si <sub>10</sub> prepared by mechanical alloying
159	Katia HAMMAR	Effects of the stacking fault on free surface FePt L10
185	Abdedaïm Yassamine	Improvement of the Mechanical Properties of the Steel 16NC6 by Cementation
189	T. Chabi	Structural and magnetic properties of Fe <sub>77</sub> Nb <sub>8</sub> B <sub>15</sub> alloy prepared by mechanical alloying
194	SETTAR Nacer Eddine	Expertise on the wear of a oil drilling tool head steel and physicochemical characterization of multi-materials (steel / tie layer/ hardfacing / brazing)
196	I. Hamdi	The effect of the artificial aging on the precipitation kinetic in the Al-Mg-Si alloy
199	A. Saoudel	The effect of addition by TIF <sub>3</sub> on structure and electrical properties of (Bi,Pb)-2223 phase
204	M.D. Hadid	Effect Of Precipitation Processes In Aluminum Alloy 6101 T1 Used In The Electric Transmission Lines
212	E. KHENNOUS	Simulation of a quantum-well structure based on BInGaAs/GaAs for laser's applications
220	TAHI Sid Ahmed Lamine	Numerical simulation of mechanical behavior of the metal foam with open and closed cells
223	Ibrahim ZIDANE	Characterization of the rheological and tribological behaviors from the micro-scratch test for steel C45
228	M. Beldjehem	XRD analysis and thermal properties of nanocrystalline Fe <sub>50</sub> Co <sub>40</sub> Ni <sub>10</sub> alloys
229	B. HAMADI	Determining the effect of cutting parameters on surface roughness in turning using the Response Surface Methodology
237	O. Djema	Effect of Ag addition and artificial aging temperature on the precipitation kinetic of β'' phase in 6063 aluminum alloys
240	Adel SAOUDI	Modelling of the relationship between mechanical properties in API X70 steels

245	S. ACHOURI	EFFECT OF DIVISIBILITY OF THE PROBABILITY OF FAILURE OF THE MODEL OF WEIBULL PARAMETERS DURING THE SIMULATION OF PULLING A CAST IRON
293	HARHOUT R	Amélioration des caractéristiques mécaniques des surfaces par nitruration procédé technologique du plasma à froid
340	Ibtissem Slatni	Conversion du Kaolin en matériaux nanostructurés et application dans le traitement des effluents textiles

16h00-16h30

### Poster session III /A (IC-WNDT-MI'16)

#### Theme 3 / Theme4

#### Theme 3 Composite and ceramic materials

<i>Code</i>	<i>Author</i>	<i>Title</i>
004	W. REZIG	Characterization and Improved Solar Light Activity of TiO <sub>2</sub> doped Ferric Oxide/Diatomite Hybrid Catalysts
004	W. REZIG	Preparation of Modified Asphalt Benders with Different Contents of Diatomite
019	A. Malki	Thermal evolution of gibbsite Al(OH) <sub>3</sub>
021	D. Belfennache	STUDY AND ELABORATION OF SILVER NANOPARTICLES SUPPORTED ON TITANIUM OXIDE
047	Ouahiba Meziane	Effect of catalyst on Thermal properties of PC/PET blends
048	A. BENSEDIRA	Synthesis and characterization of polyaniline doped with different doping agents
059	Souad Kasrani	The effect of TiO <sub>2</sub> additions on mechanical properties of the porcelain prepared from Algerian raw materials
069	Nadjat CHELGHOUM	Thermal, rheological and morphological properties of biodegradable blends based on poly(lactic acid) and polycarbonate blends
070	Ahmed Hamidi	A Three-Dimensional Solution for Bending Analysis of Functionally Graded Ceramic–Metal Sandwich Plates with Stretching Effect
079	Dehchar Charif	Two-step electrosynthesis of copper nanoparticles-polypyrrole composite films on ITO substrate
083	F. SIAHMED	Thermal and mechanical properties of bio-composites unsaturated polyester reinforced by Luffa cylindrical
084	CHABOUR ABDELALI	Kinetics study of Oxidation UO <sub>2</sub> pellets at High Temperature, Processing and Characterization
088	R. Bennai	Analysis of Free Vibration of Sandwich Beams Consider Normal Deformation Effect
092	Merabet Safia	Effet du traitement Thermique (Trempe libre )sur les proprietes thermiques et thermo-dynamique du polypropylene(PP)
100	AYADI AICHA	ELASTIC INTERACTION BETWEEN DISLOCATION AND INTERFACE IN ELASTICALLY ANISOTROPIC BIMATERIALS: Al <sub>2</sub> O <sub>3</sub> -X
101	MADI Wafa	EXPERIMENTAL ASSESSMENT OF THE BEHAVIOR OF RECTANGULAR TUBULAR COLUMNS (RHS) FILLED WITH CONCRETE
110	A.Khiat	Elaboration and characterization of a piezoelectric ceramic resonator
120	N.Douas	Elaboration and study of Ni/SiO <sub>2</sub> , Co/SiO <sub>2</sub> and Ni-Co/ SiO <sub>2</sub> nanocomposites supported on silica
153	C. Rocandio	Fatigue behavior in Mixed Mode I/II of carbon-epoxy composites
154	L. Belgacem	Experimental Analysis Of Mechanical Behavior Of Hybrid Composite Laminate Manufacturing By Vacuum Molding
158	I. Serradj	Characterization of porcelain composition using raw materials Algerian
160	Belkheir F	OPTIMIZATION OF THE BEHAVIOR OF BUCKLING OF THE STRATIFIEES BY GENETIC ALGORITHM



162	S. Ouyahia	Synthesis and characterization of $Cu_{1+x}Si_xFe_{2-2x}O_4$ spinel ferrites produced by the ceramic technique
168	HOUDA Amina	THE EXPERIMENTAL BEHAVIOUR OF SLABS STRENGTHENED BY COMPOSITE FIBRE REINFORCED POLYMER (CFRP)
171	A. Deliou	Failure of symmetric composite laminates with various reinforcement arrangements
182	W. Oudad	Analysis of Hybrid Repaire Technique (Bonded Patch And Drilling) of Metallic Aircraft Structures
183	D. Belhadri	Nonlinear Behavior of Cracked Pipeline API X65 Repaired with Composite Materials Under Pressure Load
186	Nassima Djebri	PHYSICO-CHEMICAL ANALYSIS OF COMPOSITE MATERIALS (ALGINATE-BENTONITE-ACTIVATED CARBON)
200	Daikh Ahmed Amine	Thermal behavior of Functionally Graded Materials
202	Ali Benouis	FE ANALYSIS OF THE BEHAVIOUR CRACK INTERACTION IN THE BONE CEMENT OF THE FEMUR THP

### Poster session III /B (IC-WNDT-MI'16)

203	Yasmina Kissoum	Synthesis and characterization of TiO <sub>2</sub> nanoparticles by ball milling process: the influence of process time on the structural, optical, and morphological proprieties
215	RAHMANI MOHAMED	Vegard's Law in the $Si_{1-y}C_y$ alloys
216	E. Britel	Modélisation et Simulation Numérique des Engrenages Plastiques (PVC, PA) à Denture Hélicoïdale sous un Environnement C.A.O "Application du Logiciel SolidWorks 2013+ Comsol 4.4"
217	Hamza Bouguessir	Mechanical Charcterization of a new hybrid Jute/Glass reinforced laminates
221	H.I. Beloufa	Experimental comparative study
226	FERHAT Djawad	The effects of laminated composite patch with different stacking sequences on bonded repair
226	FERHAT Djawad	Elaborationand Characterization of Nano -Bio- Composite Membranes
235	Soumia Sekkiou	Thermo-mechanical beahvior of steel-concrete composite columns under natural fire including heating and cooling phases
246	S. Chaib	Influence of mixing sequences on the characteristics of fresh self-compacting concrete reinforced with metal fibers
247	H. Kouadri	Structural characterisation and antibacterial activity of PP/HDPE/TiO <sub>2</sub> -clay nanocomposites prepared by reactive extrusion
252	Samira Hassiba Tagrara	On bending and buckling functionally graded carbon nanotube-reinforced composite beams
278	N. BOUSALEM	GREEN SYNTHESIS, CHARACTERIZATION AND ANTIBACTERIAL ACTIVITY OF ALGINATE-Ag NANOPARTICLES-CHITOSAN COMPOSITE FILMS
292	N. BOUZEGZI	Microstructural and tribological characterizations of a Hard material composite: WC-W-Mn-Ni/Cu-Sn/assembled with cermet (WC-Co) by brazing process
300	Ali Mameri	CHARCTERISATION MICROSTRUCTURAL AND MECHANICAL OF Ni/NiAl <sub>2</sub> O <sub>4</sub> , DEVELOPED BY MECHANICAL ALLOYING AND REACTIVE SINTERING
305	Z. Zeddour	The optimization of the gap between fibers to estimate damage of the composite interface
310	S. DEBILI	THE EFFECT OF THE ELECTRICAL FIELD AND THE POLARIZATION TEMPRRATURE ON PIEZOELECTRIC PROPRIETES IN THE POLY (VINYLIDENE FLUORIDE) (PVDF)
330	Fares Djematene	Elaboration and Tribological study of WC-35 wt%(Fe-Co-NI)hard metal alloys obtained by liquid phase sintering
335	S. Menassel	Investigation of Structural and Superconducting Properties of BiSrCa(Ti)CuO Superconducting Ceramics from Sol-Gel Method

**Theme 4 Corrosion and materials protection, pitting corrosion, stress corrosion, coating, thin films, ...etc.**



<i>Code</i>	<i>Author</i>	<i>Title</i>
006	M. Salhi	Development of a magnetron sputtering system for in-situ deposition of thin multilayerscoatings
009	N. Boukmouche	Study of corrosion resistance of carbon steel in albian water solution in the presence of Chimec as corrosion inhibitor
011	Faiza Kaka	Corrosion performance and electrochemical stability of 316L in body fluid
014	A. Lebbad	Structural and microstructural properties ofAl-doped ZnO thin films prepared by sol gel method
018	Karima Abderrahim	Synthesis and Inhibition effect of tetrathiafulvalene –TTF- type on the Corrosion of Mild Steel in 0.5 M H2SO4 Solution
027	Ammar KASSAA	STUDIES OF IRON DISELENIDE THIN FILMS DEPOSITED BY THERMAL EVAPORATION
031	Mohammed-Amin BOUMEHRAZ	DIAGNOSIS OF DAMAGE OF METAL STRUCTURES UNDER THE INFLUENCE OF CORROSION IN THE REGION OF DJIJEL
032	Hanane Hamani	Application of new azomethine as corrosion inhibitor on mild steel in acidic medium: Electrochemical, thermodynamic and SEM investigations
043	H. Mechri	Friction and wear behaviors of TiCN coating treated by R.F magnetron sputtering
045	TRAIAlA Noura	The degradation mechanism of coatings in MgO-C of the steel pockets
050	M. Boudjerda	Numerical Investigations of a reconfigurable patch antenna using thin ferrite film
054	O. Bouriche	Study of structural , electrochemical and antibacterial properties of PVK pur and Doped with TiO2
058	M .Rekaik	Production and characterization of a composite deposit on steel Nickel-Alumina

November 28, 2016

10h10-10h40

## Poster session IV (IC-WNDT-MI'16)

### Theme 4

#### Theme 4 Corrosion and materials protection, pitting corrosion, stress corrosion, coating, thin films, ...etc.

<i>Code</i>	<i>Author</i>	<i>Title</i>
060	Leila LAMIRI	Corrosion protection of stainless steel by thin films of poly (bithiophene) in different medium
061	S. Laidoudi	Effect of Applied Potential on Electrodeposition and Properties of Cuprous Oxide (Cu <sub>2</sub> O) Nanostructures
063	Djamel Eddine Hamza	Electro-polymerization and characterization of PANI thin films obtained from a sulfuric acid bath on ITO
064	Nadia Boukhalfa	HARACTERIZATION OF SYNTHESISED LAYERED DOUBLE HYDROXIDES MATERIALS
071	S. HARIECH	Elaboration and Characterization of Cadmium Sulfide (CdS) Thin Films Prepared by Chemical Bath Deposition (CBD)
078	Amina Sriba	Microstructure Evolution, Mechanical Properties and Pitting Corrosion Resistance of AISI 316L Stainless Steel Weldment
080	O. Belgherbi	Electropolymerization of Polyaniline Thin Films on Indium Tin Oxide Substrate
082	Alioui Sara	Microstructure development during pack aluminization of Z60CDV5 steel
085	Imene Benmahammeda	Study on the anticorrosive power of a Schiff's base (4,4'-bis (2-thiophene carboxaldehyde) diimino diphenyl sulfide) on the XC48 steel in aggressive HCl 1M
087	CHIKOUCHE Imene	Elaboration and characterization of a multifunctional (Cu-In)/conducting polymer/Si hybrid composite coating

089	OKBA Fouad	Nano Thin Layer Silicon Elaboration
091	N.BOUSSATHA	Synthesis, structural and optical properties of ZnO thin films
099	F.Termemil	Contribution à l'étude de la formation de la rouille verte carbonatée $RV(CO_3^{2-})$ en milieu sulfaté en fonction du pH et du rapport $[SO_4^{2-}]/[HCO_3^-]$
105	N. Madaoui	Corrosion study on TiCrN coatings deposited on 316L by RF magnetron sputtering
108	B.Idir	CORROSION INHIBITION EFFICIENCY OF PHENANTHROLIN ON GRAY CAST IRON IN HYDROCHLORIC ACID
109	Nesrine Ramli	Evaluation of electrochemical behavior of the passive film formed on Ni in 0,5M $H_3PO_4$ solution
111	R.Hendi	Corrosion due to the interference between cathodic protection systems
112	S. Taleb	Influence of electrodeposition conditions on the morphology and properties of ZnO nanosheets
117	Rabie Bacha	Synthesis and Characterization of CuO Nano Particles by Sol-Gel Method
123	Hind LAOUAMRI	Functional coatings: Application to cover panels of solar cells
127	S. Haya	Fabrication and characterization of pure ZnO thin films deposited by Sol-gel method
132	Benamar balegh	Time-varying ultimate strength of aging sheet pile considering corrosion effect
133	S. Lallouche	Determination of residual stress in Al-Alloys thin films
133	S. Lallouche	Etude structurale et électrique des dépôts nanostructures Al (% Cu)
144	Houssem Eddine El yamine SAKHRAOUI	ILLUSTRATION OF SQUAR-WAVE VOLTAMMETRY AS AN EFFICIENT ANALYTICAL METHOD FOR THE HIGH DETECTION OF NANOMOL AMOUNT OF HEAVY METALS FOR ENVIRONMENTAL APPLICATIONS
149	Hakim BENSABRA	THE EFFECT OF $Cu^{2+}$ ADDITIVE ON CORROSION RESISTANCE OF PHOSPHATE COATING OF REBAR STEEL
157	Meryem ACILA	THE COMPARATIVE STUDY BETWEEN THE INHIBITIVE EFFECT OF SODIUM MOLIBDATE AND SODIUM VANADATE ON THE CORROSION BEHAVIOUR OF ALUMINIUM ALLOY IN CHLORIDE MEDIUM
161	F. Mousli	Elaboration and characterization of nanosized $RuO_2-TiO_2$ powder by Sol Gel route
163	Leila Hasniou	Steel XC38 protection against corrosion by an organic compound (DHASC) in hydrochloric acid medium
170	Mohamed HAMIDOUICHE	Microstructural, morphological, mechanical and tribological characterization of nanocrystalline nickel and Ni-Co electrodeposits coatings
173	R. Boufnik	Study of etch characteristics of monocristalline silicon wafers using KOH solution
174	L. Bouamama	DFT study of F atom adsorption on Si(001) surface
177	S. KABOUICHE	DISSOLVED OXYGEN AND TEMPERATURE EFFECT ON THE ELECTROCHEMICAL SYNTHESIS OF SnS
178	Yamina LOUAFI	CORROSION BEHAVIOUR OF CARBON STEEL IN CHLORIDE SOLUTION AT DIFFERENT CONCENTRATION OF SODIUM HYDROGENOCARBONAT
188	Ahmed LOUAFI	The inhibition effect of Gum Arabic (GA) On the corrosion of carbon steel in HCl medium
201	A. LEKOUJ	Investigation on the corrosion process of carbon steel coated by HVOF WC/Co/Cr cermets in neutral solution
210	Saida MOUZALI	Experimental studies of new Schiff base as corrosion inhibitor for mild steel in sulfuric acid solution
211	F. Medjaldi	Optical and photocatalytic properties of $TiO_2$ thin films prepared by sol-gel method
213	Hakim BENSABRA	INHIBITIVE EFFECT OF PHOSPHATE IONS ON THE PITTING CORROSION BEHAVIOUR OF STEEL REINFORCEMENTS PART (I): STUDY IN SIMULATED CONCRETE PORE SOLUTION
232	L. Touafri	Experimental and computational studies on the inhibition efficiencies of Tyrosine and phenylalanine as green inhibitors for mild steel in acidic medium

244	S. Benfattoum	Corrosion study of Neodymium-Iron-Boron alloys: Neutron reflectometry of the ultra-thin polymer film interfaces and effectiveness of polymer coatings
254	F. TOURI	Preparation electrochemically and structural and morphological characterization of thin films based on zinc oxide
263	D. Allou	Corrosion of multi-material in marine environment
266	F. Ahnia	Corrosion behavior Molybdenum coatings on industrial carbon steel in simulated sea water
275	A. Kouache	Protection d'un acier au carbone contre la corrosion acide par un inhibiteur vert
283	A. Chaa	Electrochemical behavior with and without the presence of hardening phase in ferritic stainless steel
286	BAHI AZZOUOUM Ahmed	ELABORATION AND CHARACTERIZATION OF NiO THIN FILM DEPOSITED BY CHEMICAL SPRAY PYROLYSIS TECHNIQUE, SOLAR CELLS APPLICATIONS
289	M.SELLAM	Effect of Heat Treatments on Mechanical and Electrochemical Properties of 6082-T651 Aluminium Alloy in NaCl Medium
292	N. BOUZEGZI	Electrochemical behavior and microstructure of infiltrated hard material composite: WC-W-Mn-Ni / Cu-Sn / and brazed with (WC-Co) using Ag-Zn-Cu as filler metal
326	Rahmani Farid	PROTECTION DES OUVRAGES GAZIERE CONTRE LA CORROSION
327	S.Bouyegh	Quality and performance of sacrificial anodes used in cathodic protection
332	D. Dergham	Effet de Silicium sur les propriétés de Ti déposé par évaporation thermique sous vide