

Programme / Program

5^{ème} Congrès Tunisien de Mécanique / COTUME 2020 / 5th Tunisian Congress on Mechanics**Programme / Program**

Samedi matin / Saturday morning: 19/ 12 / 2020

8h00– 9h30	Accueil – Inscription / Home - Registration
9h30 – 10h30	Ouverture / Opening
10h30 – 11h00	Pause-café/ Coffee break
11h00 – 12h00	Conférence Plénière 1 / Plenary Session 1 Prof. Kais MEJRI
12h00 – 12h30	Conférence Plénière 2 / Plenary Session 2 Prof. Abdeltif BOUDABOUS, Professeur de la facultés de Sciences de Tunis, Ancien Président Du CNEAR
12h30 – 14h	Déjeuner / Lunch
14h – 14h30	Conférence Plénière 3 / Plenary Session 3 Prof. Tarek BEN ZINEB.

Samedi / Saturday - 19 / 12 / 2020 - Après midi / Afternoon (suite/following)

Session 1 / Salle 1		Session 2 / Salle 2		Session 3 / Salle 3		Session 4 / Salle 4		
Présidents : M. Haddar & M. Chouchane		Présidents : F. Ben Nejma & N. BenSalah		Présidents : Présidents : N. Ben Fredj & B. Louhichi		Présidents : F. Ben Hatira & R. Bahloul		
14h30 14h50	Dynamique et vibration des structures / Dynamics and vibration of structures	ID19 - Numerical SPH-FEM investigation of a water jet impacting a fixed Titanium target: study of the slope and initial velocity effects, Ikram Ben Belgacem Barhoumi, Lotfi Cheikh, El Manaa Barhoumi, Wacef Ben Salem	Mécanique des Fluides/Fluid mechanics et Energie, Transfert de masse et de chaleur/Energy, mass and heat transfert	ID10 – A Finite Element solver for simulating open-channel transient flows: Gradually varied regime, Ali Triki	Procédés de fabrication/ Manufacturing process	ID14 – Evaluation of the contact area between two-dimensional powder particles densified by hot isostatic pressing, Locif Redouani, Sara Khilouf, Rebah Laidi, Wassila Tebib	Matériaux : structure et comportement / Materials : Structure and behaviour.	ID 16 – Numerical study of the flow of zinc during hot-dip galvanization, Jalel Ben Nasr
14h50 15h10		ID40 - Numerical simulation to investigate the dynamic behavior of a cracked gear-shaft, Mohamed Boughazala, Khemais Hamrouni, Abdessattar Aloui		ID71 – Lattice Boltzmann Method (LBM) for the Simulation of Two Dimensional Radiative Heat Transfer, Bettaibi Soufiene		ID15 – Feasibility study of thin cylindrical shapes by incremental forming process (CSPIF), Naceur Ben Jdira, Atef Boulila, Mahfoudh Ayadi		ID 18 – Isotropic and kinematic hardening laws: plastic behavior of mild steel under shear tests, Olfa Daghfas, Amna Znaidi, Rachid Nasri
15h10 14h30		ID41 - Heavy Trucks with Intelligent Control of Suspension based on Deep Learning, Anis Hamza, Nouredine Ben Yahia		ID118 – Optimization of diffuser angle to reduce the drag of a light car, Kamel Belhadj, Ali Helali		ID36 – Effet de l'effort de serrage sur le retourélastique des tôles ultrafines de cuivre, Nejia Ayachi, Pierre-Yves Manach, Noamen Guerhazi		ID20 – Etude et modélisation thermique de la cellule solaire InGaN/GaN p-i-n N face, Bilel Chouchen, Mohamed Hichem Gazzah, Hafedh Belmabrouk
15h30 15h50		ID46 - On three-dimensional detailed finite element free-vibration analysis of hexagonal honeycomb sandwich panels, Ayech Benjeddou, Mohamed Guerich		ID50 – Dual inline and branching techniques-based water-hammer control strategy., Mounir Trabelsi, Ali Triki		ID 38 – Using RSM method and desirability function approach to optimize surface integrity in finish hard milling process of AISI H13 tool Steel, Chams Eddine Dakhli, Brahim Ben Fathallah, Mohamed Ali Terres		ID 21 – Robust Optimization in A-TIG welding process, Abdejil Chihoui Hedhibi, Kamel Touileb, Bander Alzahrani, Mohamed Lamjed Bouazizi
15h50 16h10		ID 74 - Linear and Geometrically Nonlinear Frequencies and Mode Shapes of Simply Supported Simply Supported Free Rectangular Plates with a Point Support at the Free Corner. Ahmed Babahammou, Rhali Benamar		ID 125 – A linear stability analysis of the flow in the gap of a rectangular channel containing a rod, Faika Souissi, Mohamed Sadok Guellouz, Slim Kaddeche, Nizar Ben Salah		ID 39 – Study on deep truncated cone accuracy improvement in warm incremental sheet forming process of Ti-6Al-4V, Badreddine Saidi, Laurence Giraud Moreau , Rachid Nasri, Abel Cherouat		ID27 – CAE-PVD synthesis and characterization of TiN biocompatible coating deposited on titanium alloy for biomedical application, Chokri Ben Aissa, Kaouther Khelifi Khelifi, Khalil Aouadi
16h10 16h30		ID- 76 - Formulation of New Continuous Element of Pre-stressed Stiffened Circular Cylindrical Shell, Imen Harbaoui, Mohamed Amine Khadimallah		ID11 – Numerical investigation toward improving hydraulic-jump prediction in rectangular open-channels, Ali Triki		ID 44 – Prédiction et modélisation de la rugosité de surface basée sur la méthodologie de la surface de réponse en fraisage de face de l'acier XC42 par un cermet, Mohamed Fnides, Brahim Fnides, Mohamed Athmane Yalles		ID28 – Influence de la position et de la taille des fissures sur le taux de restitution de l'énergie dans les matériaux piézo-électriques, Mustapha Gherrous, Hicheme Ferdjani

16h30 - 16h50

Pause-café/ Coffee break

Samedi / Saturday - 19 / 12 / 2020 - Après midi / Afternoon (suite/following)

Session 5 / Salle 1		Session 6 / Salle 2		Session 7 / Salle 3		Session 8 / Salle 4	
Présidents : H. Hamdi & W. Bouzid		Présidents : T. Fakhfakh & Z. Affi		Présidents : A. Aloui & M.S. Abbes		Présidents : N. Guermazi & W. BenSalah	
16h50 17h10	ID80 – Orthogonal cutting of carbon fiber reinforced polymer composites using finite element modeling, Amira Hassouna, Slah Mzali, Farhat Zemzemi, Salah Mezlini	Méthodologie de Conception et Robotiques / Design Methodology and Robotics	ID32 – CAD/tolerancing integration: A Novel method for the tolerance analysis of cylindrical parts assemblies considering the manufacturing defects and the deformations of non-rigid components, Anis Korbi, Amira Soued, Ahmed Elayeb, Mehdi Tlija, Borhen Louhichi, Abdelmajid Benamara	Dynamique et vibration des structures / Dynamics and vibration of structures	ID95 – Unbalance Vibration reduction of High-Speed Turbochargers Using Active Magnetic Actuator, Hamda Chagraoui, Mourad Saidi, Mohamed Soula	Matériaux : structure et comportement / Materials : Structure and behaviour.	ID34 – Split disk tensile (SDT) test applied on offshoring PVC pipes: Experimental and modeling approaches, Houcine Jemii, Amir Bahri, Abid Boubakri, Dalila Hammiche, Noamen Guermazi
17h10 17h30	ID94 – The impact of geometric complexity on printing time and cost for Additive manufacturing (AM) Process, Sabrine Ben Amor, Antoine Tahan, Borhen Louhichi		ID59 – An integrated tool for modular disassembly plans generation and evaluation, Imen Belhadj, Moncef Hammadi, Moez Trigui, Nizar Aifaoui		ID109 – Dynamic Analysis of a Cracked Shaft Using Numerical Simulation., Mohamed Boughazala, Khemais Hamrouni, Abdessattar Aloui		ID35 – Raideur Torsionnelle d'une butée Sphérique, Mohamed Trifa, Makrem Arfaoui
17h30 17h50	ID121 – Optimal part orientation in the additive manufacturing process based on tolerancing, Ahmed Elayeb, Anis Korbi, Mehdi Tlija, Borhen Louhichi		ID63 – Conception, modélisation et fabrication d'un dispositif de mise en forme des poudres métalliques à basse température, Ihssen Jabri		ID134 – Vibration control of a rotor using smart bearings with magneto-rheological elastomer supports, Faiza Sakly, Mnaouar Chouchane		ID43 – FE simulation of a blanking process for ductile steel sheet using fully coupled constitutive equations, Olfa Ghorbel, Sana Koubaa, Jamel Mars, Mondher Wali, Fakhreddine Dammak
17h50 18h10	ID124 – Geometrical optimization of the conformal cooling system for a plastic injection mould, Mouna Ben Slama, Sami Chatti		ID84 – A novel CAD model for the tolerance analysis of planar parts assemblies with form defects, Amira Soued, Anis Korbi, Mehdi Tlija, Borhen Louhichi		ID148 – A JAYA based algorithm for a discrete rotor design optimization, Ibrahim Mlaouhi, Najeh Ben Guedria, Chokri Bouraoui		ID48 – Classification of marbles provenance using artificial neural Network, Mouna Hammouda, Romdhane Ben Khelifa, Nouredine Ben Yahia
18h10 18h30	ID137 – Comparison between Mixed Eulerian-Lagrangian approaches in Finite Element simulation of Friction Stir Spot Welding, Nasra Hannachi, Ali Khalfallah, Dulce Rodrigues, Carlos Leitao		ID92 – Matrice de probabilité de propagation d'une modification au sein d'un modèle CAO., Ameni Eltaief, Borhen Louhichi, Sebastien Remy		ID151 - Study of the fatigue behaviour of an aluminium one-component polyurethane adhesive joint for bus structures, Yasmina Boutar, Sami Naimi, Salah Mezlini, Ricardo J.C Carbas, Lucas F.M Da Silva, Moez Ben Sik Ali		ID52 - Identification inverse des paramètres d'écroutissage à partir des essais de gonflement hydraulique à chaud en prise en compte l'anisotropie du matériau, Wardi Makhloufi, Mohamed Toumi Nasri, Mahfoudh Ayadi

Dimanche / Sunday - 20 / 12 / 2020 - Matin / Morning

8h30 – 9h00	Conférence Plénière 4 / Plenary Session 4 Prof. Martine BEN AMAR Biomécanique et médecine : cas de la fibrose et de l'oncogénèse
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Session 9 / Salle 1		Session 10 / Salle 2		Session 11 / Salle 3		Session 12/ Salle 4	
Présidents : M. Kharrat & A. Khalfallah		Présidents : L. Romdhane & A. Mlika		Présidents : M. Dammak & M. Zidi		Présidents : A. Jemni & L. Kairouani	
09h00 09h20	Biomécanique & Mécanique de Contact	Méthodologie de Conception et Robotiques/Design Methodology and	Matériaux : structure et comportement / Materials : Structure and behaviour.	Mécanique des Fluides/Fluid mechanics et Energie, Transfert de masse et de chaleur/ Energy, mass and heat transfer			
	ID114 – Lumbar spine dynamic during High Heeled Gait: musculoskeletal modeling contribution, Taysir Rezgui, Khalik Ben Mansour, Frederic Marin		ID26 – Frequency analysis of functionally graded beams by finite element method, Souhir Zghal, Sourour Trabelsi, Fakhreddine Dammak		ID62 – Deep rolled surface improvement of the AISI 304L using cryogenic cooling, Khouloud Gharbi, Naoufel Ben Moussa, Nabil Ben Fredj		ID12 – Effectiveness of the inline technique-based design strategy in mitigating cavitating flow, Mohamed Amir Chaker, Ali Triki
09h20 09h40	ID30 – Focus on rehabilitation exercises in view of cable-driven parallel robot design, Ferdaws Ennaiem, Med Amine Laribi, Abdelbadiâ Chaker, Juan Sebastián Sandoval Arévalo, Sami Bennour, Abdelfattah Mlika, Lotfi Romdhane, Saïd Zeghloul		ID29 – Mechanical behavior of bonded of composite Fiber-Reinforced Polymer (FRP) rods into glulam timber, Slim Ben Elechi, Mourad Khelifa, Marc Oudjene, Mourad Rahim		ID73 – Effet de la variation des bicouches sur les propriétés des revêtements multicouches CrN/CrAlN élaboré par pulvérisation magnétron cathodique DC, Khalil Aouadi, Brahim Tlili, Aurelien Besnard, Corinne Nouveau		ID17 – Effect of nanofluid model on 3D natural convection of heat and mass transfer, Nessrin Manaa, Awtef Abidi, Mohamed Naceur Borjini
09h40 10h00	ID146 – On three-dimensional detailed finite element free-vibration analysis of hexagonal honeycomb sandwich panels, Ayech Benjeddou, Mohamed Guerich		ID31 – An alternative Hamiltonian 3D semi-analytical approach for the static analysis of piezoelectric angle-ply laminated plates, Orlando Andrianarison, Ayech Benjeddou		ID75 – Mechanical Behavior of a Superelastic NiTi Archwire Charged with Hydrogen under Cyclic Loading, Riheme Sarraj, Tarek Hassine, Fehmi Gamaoun		ID37 – Characterization of kinetics of thermal decomposition of densified wood materials from isothermal thermo-gravimetric experiments, Mourad Khelifa, Yann Rogaume
10h00 10h20	ID93 – 3D printed cellular structures of PLA for engineering artificial bone, Naserddine Ben Ali, Dorra Hammami, Mohamed Khelif, Chedly Bradai		ID54 – Sensitivity of the cortical bone mechanical behaviour according to the fabric tensor variation, Tesnim Kraiem, Abdelwahed Barkaoui, Tarek Merzouki		ID78 – Modeling of TA6V titanium alloy by an identification strategy: Biomechanical application, Rym Harbaoui, Olfa Daghfes, Amna Znaïdi		ID42- Reliability assessment of the branching technique in upgrading steel-pipe based hydraulic systems., Mohamed Amir Chaker, Ali Triki
10h20 10h40	ID53 – Identification of optimized cranial bone constitutive model parameters at high strain rate using Polymeric Split Hopkinson Pressure Bar test results, Seddik Shiri, Julien Halgrin		ID55- Bone remodeling model coupling damage and inhibitory signal parameters for bone interface, Imed Soltani, Abdelwahed Barkaoui		ID82- Finite element analysis of nonlinear behavior of FG Cantilever, Hanen Jrad, Jamel Mars, Abir Bouhamed, Mondher Wali, Fakhreddine Dammak		ID45- Exploring induced oscillatory free-surface waves in prismatic open-channel, Ali Triki

10h40– 11h00	Pause-café/ Coffee break
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Dimanche / Sunday - 20 / 12 / 2020 - Matin / Morning (suite/following)

11h00– 12h30	Session Posters / Session Poster & Table Ronde : Biomécanique/ Roundtable : Collaborations entre médecins et chercheurs en Tunisie : acquis, opportunités et défis.
12h30– 14h00	Déjeuner / Lunch

Dimanche / Sunday - 20 / 12 / 2020 - Après midi / Afternoon

	Session 14 / Salle 1	Session 15 Salle 2	Session 16 / Salle 3	Session 17 / Salle 4		
	Présidents : W. Ben Salem & M. Dammak	Présidents : L. Walha & N. Aifaoui	Présidents : M. Barkallah & Ch. Bradai	Présidents : M. Baili & A. Akrouit		
14h00 14h20	Biomécanique & Mécanique de Contact	Méthodologie de Conception et Robotiques / Design Methodology and Robotics	Matériaux : structure et comportement / Materials : Structure and behaviour	ID 83 – Finite element modeling of energy-state in combined puncture/cutting of soft material by a pointed blade, Marwa Gzaïel, Ennouri Triki , Abdelwahed Barkaoui		
14h20 14h40				ID 105 – Automatic generation of geometric tolerances types from a CAD model, Rahma Farjallah, Riadh Benhadj, Nizar Aifaoui, Moez Trigui	ID 85 – Determination of hyper-viscoelastic parameters of elastomeric materials, Lachhel Belhassen, Sana Koubaa, Mondher Wali, Fakhreddine Dammak	ID 57 – X-FEM Numerical analysis of a pressurized cracked shell, Amir Sakhraoui, Fayza Ayari
14h40 15h00				ID 112 – Computer Aided Tolerancing: Tool for tolerance analysis and allocation, Maroua Ghali, Nizar Aifaoui	ID 86 – Experimental Study on Mechanical Properties of Papercrete, Nourhene Allaya, Myriam Laroussi Hellara, Abdelwaheb Dogui	ID 58 – Analyse numérique par la méthode X-FEM et extraction des FIC des coques fissurées sous pression, Amir Sakhraoui, Fayza Ayari
15h00 15h20				ID 119 – Dynamic modeling and distribution of cables' tension of a Cables Driven Parallel Robot, Hajer Ben Amor	ID 87 – Caractérisation des briques en terre cuite incorporées par les boues de désencrage, Hajer Makni	ID 60 – Numerical study of damage and brittle fracture by using the variational approach: comparison between quasi-static and dynamic cases, Marwa Dhahri, Radhi Abdelmoula, Jia Li, Yamen Maalej
15h20 15h40				ID 111 – Elaboration et caractérisation tribo-structurale de composites PEBDL/Cu en poudre, Mabrouka Akrouit, Basma Ben Difallah Ep Ben Said, Fahmi Bedoui, Salima Bouvier, Mohamed Kharrat, Abdeljalil Jourani, Maher Dammak	ID 122 – Novel Combined Procedure for Optimal Synthesis of Translational Parallel mechanisms, Ines Ben Hamida	ID 70 – An alternative Hamiltonian 3D semi-analytical approach for the static analysis of piezoelectric angle-ply laminated plates, Orlando Andrianarison, Ayeche Benjeddou
15h40	ID 117 – Effect of cuttlebone filler on tribological response of HDPE, Amira Salem, Walid Bensalah, Salah Mezlini	ID 130 – Assembly path generation with obstacle considering, Salma Ben Said, Riadh Benhadj, Moez Trigui, Nizar Aifaoui, Moncef Hammadi	ID 88 – Validation de l'essai de gonflement par approche analytique, Fatma Kharrat, Mohamed Khelif, Mohamed Haboussi, Loic Hilliou, Chedly BRADAI	ID 79 – Critical buckling evaluation of nanocomposite plates subjected to mechanical loads, Souhir Zghal, Sourour Trabelsi, Fakhreddine Dammak		

15h40 16h00	ID120 – Effect of mollusc shell filler on the tribological and mechanical properties of Ultra-Height Molecular Weight Polyethylene, Besma Sidia, Walid Bensalah	ID135 – Environmentally measurable indicator model based on machining features and cutting pa-rameters, Hadhami Beslama, Raoudha Gaha, Abdelmajid Benamara	ID 89 – Mechanical Properties of Biodegradable Composites Based on Poly (Butylene Succinate) and Palm Trunk Fibers Treated with Synergistic Enzymes, Rania Chaari	ID98 – Free vibration analysis of FGM shell structures with a Higher Order Shear Strain Enhanced Solid-Shell Element, Elouni Chebbi, Abdessalem Hajlaoui, Fakhreddine Dammak
16h00 16h20	ID149- Microstructure effect on the Anti-fingerprint function of leaf surfaces, Meriem Belhadjamor, Saoussen Belghith, Salah Mezlini	ID145 – Computer Aided Inspection by Reverse Engineering for Reproduction of Gear Teeth, Rabia Selloum, Hacene Ameddah, Mourad Brioua	ID 90 – The use of FGM dental implant to improve biocompatibility: 3D FEM Analysis, Sameh Elleuch, Hanen Jrad, Mondher Wali, Fakhreddine Dammak	ID99 – A Higher Order Shear Strain Enhanced Solid-Shell element for thermal buckling analysis of FGM structures, Abdessalem Hajlaoui, Hanen Mallek, Elouni Chebbi, Fakhreddine Dammak

16h20 - 16h40	Pause-café/ Coffee break
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Dimanche / Sunday - 20 / 12 / 2020 - Après midi / Afternoon (suite/following)

16h40 - 18h30	ASSEMBLÉE GÉNÉRALE DE L'ATM
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Lundi matin / Monday morning 21 / 12 / 2020

8h30 – 9h00	Conférence Plénière 5 / Plenary Session 5 Prof.
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	Session 18/ Salle1	Session 19/ Salle 2	Session 20/ Salle 3	Session 21 / Salle 4			
	Présidents : M. Zidi & T. Hassine	Présidents : Med. Kchaou & W. BenSalah	Présidents : R. Elleuch & M. Soula	Présidents : S. Chatti & A. Bencheikh Larbi			
9h00 9h20	Matériaux : structure et comportement / Materials : Structure and behaviour	Procédés de fabrication / Manufacturing process	Matériaux : structure et comportement / Materials : Structure and behaviour	ID127 - Etude des phénomènes thermiques dans les procédés de fabrication additive, application au "Selective Laser Melting", Marwa Jaziri, Slimen Attyaoui, Khalil Mansouri , Walid Hammami			
9h20 9h40				ID 91 - Influence of diameter of functionally graded biomaterial implant on stress distribution, Sameh Elleuch, Hanen Jrad, Mondher Wali, Fakhreddine Dammak	ID 47 - Modeling and simulation of orthogonal cutting with lubricoolant based on SPH approach: Mechanical effect of the water-jet, Heithem Khoctali, Farhat Zemzemi, Wacaf Ben Salem	ID 138 - Stiffness Evolution of Woven Fabric Flax/PP Composite Material During the Monotonic and Cyclic Tensile Loading, Rihab Messadi, Tarek Hassine, Hachmi Ben Daly	ID 110 - Energetic and Economic Study of Geothermal System in Tourist and Therapeutic Hotel, Mohamed Amine Zainine, Taoufik Mezni, Fakhreddine Abbassi, Mohamed Ali Dakhlaoui, Ali Zghal
9h40 10h00				ID 96 - Effect of process parameters on surface roughness while cutting glass/polymer composite laminates with abrasive water jet, Faten Chaouch, Ated Ben Khalifa, Redouane Zitoune, Mondher Zidi	ID 56 - Influence of process parameters on the mechanical and geometrical responses of a bilayer sheet during incremental forming, Wifak Ben Abdelkader, Riadh Bahloul	ID 140 - Simulation numérique de l'essai de nano-indentation sphérique sur les amorphes métalliques, Bechir Bouzakher, Hamza Riahi, Tarek Benameur	ID 51 - Investigating the unidirectional flow behaviour in trapezoidal open-channel, Ali Triki
10h00 10h20				ID 101 - Brittle fracture of glass fiber reinforced PBT:Application for a riveting operation, Oumayma Hamlaoui, Olga Klinkova, Riadh Elleuch, Imad Tawfiq	ID 61 - Simulation of CAD/CAM contour deviations, El Bechir Msaddek	ID141 - Optimisation des paramètres de galetage des pièces en amorphes métalliques à base de Zirconium, Mohamed Abdellahi Senhoury, Fathi Gharbi, Tarek Benameur	ID115 - Study of Heat and Mass Transfer Mechanisms in a Turbulent Fluidized Bed, Taoufik Mezni, Mohamed Amine Zainine, Fakhreddine Abbassi, Mohamed Ali Dakhlaoui, Ali Zghal
10h20 10h40				ID 103 - Caractérisation tribo-mécanique de revêtements micro-composites graphite/polymère déposés sur un substrat polymère, Mohamed Abid, Mongi Bougelben, Mohamed Kharrat, Maher Dammak	ID 64: Experimental and numerical investigation of hole-flanging process with rubber punch, Lachhel Belhassen, Sana Koubaa, Mondher Wali, Fakhreddine Dammak	ID142 - Development of a new ring hoop shear test for the mechanical characterization of tubular materials, Zied Ktari, Ali Khalfallah, Carlos Leitao	ID49 - Removal of hydraulic cavitation using the inline and branching techniques, Mounir Trabelsi, Ali Triki
10h40 10h40	ID 104 - A numerical study on thermal property of Al/Gp metal matrix composites for electronic packaging application using homogenization techniques, Mariem Bhouri , Foued Mzali	ID 67 - Residual stress induced by laser welding of interstitial free (IF) steel: simulation approach, Latifa Arfaoui, Amel Samet, Amna Znaidi	ID144- Strategy of Determination of Mechanical Properties of Woven flax-reinforced polypropylene Composite, Rihab Messadi, Sana Abid, Tarek Hassine, Hachmi Ben Dali, Marie-France Lacrampe				

10h40 – 11h	Pause-café/ Coffee break
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Lundi matin / Monday morning 21 / 12 / 2020 (suite/following)

	Session 22/ Salle 1	Session 23/ Salle 21	Session 24/ Salle 3	Session 25 / Salle 4
	Présidents : R. Chaari & B. Louhichi	Présidents : N. Khabou & M. Mbarek	Présidents : M. Dammak & M. L. Bouazizi	Présidents : W. BenSalem & F. Mzali
11h00 11h20	Matériaux : structure et comportement / Materials : Structure and behaviour	Matériaux : structure et comportement / Materials : Structure and behaviour	Matériaux : structure et comportement / Materials : Structure and behaviour	ID 107 - Influence of applied voltage on corrosion behavior of TiO ₂ thin films, Hafedh Dhifelaoui, Kaouther Khelifi, Najoua Barhoumi, Ahmed Ben Cheikh Larbi
11h20 11h40				ID 108 - Caractérisation morphologique et mécanique de l'alliage Ti0.9W0.1C nanocristallin préparé par mécanosynthèse et Frittage flash (SPS), Amal Karouia, Chiheb Slama, Mohieddine Abdellaoui, Noureddine Jouini
11h40 12h00				ID113 - Ductile behaviour and failure of 2024-T351 and 6061-T6 Al-Alloys, Meriem Nourira, Marta C. Oliveira, Ali Khalfallah, José L. Alves, Luís F. Menezes
12h00 12h20				ID123- Identification de la chaleur latente et de la fraction solide au cours de la solidification de la fonte GS600, Dorsaf Khalifa, Foued Mzali
12h20 12h40				ID100 - A Higher Order Shear Strain Enhanced Solid-Shell element for Post-buckling analysis of carbon nanotube reinforced FG shells, Elouni Chebbi, Abdessalem Hajlaoui, Fakhreddine Dammak
		ID126 - Variable Amplitude Loading effect on the residual stress distribution ahead of the crack tip, Amina Remadi, Ahmed Bahloul, Chokri Bouraoui	ID 147 - Influence de la vitesse de glissement et de la charge sur le comportement en friction et usure du revêtement FEP déposé sur l'acier 304, Faouzi Hamdi, Najoua Barhoumi, Kaouther Khelifi	ID68 - Ball end milling process optimization for surface roughness, Wael Mersni, Mohamed Boujelbene, Sahbi Ben Salem
		ID 128 - Effects of nanocrystals on evolution of crack propagation in a particle-reinforced metallic glass composite, Cheima Ammari	ID 150 - Effect of thermo-mechanical treatments and conditions on the pseudoelastic damping behavior of the Fe-30Mn-6Si-5Cr Shape Memory Alloy, Malek Megdiche, Achref Sellami, Tarak Bouraoui, Tarak Ben Zineb	ID 152- Energy forms contributing to deep machining by continuous power CO ₂ laser, Neila Jebbari, Lamia Troudi
		ID129 - Study of wear and corrosion performance of fluoropolymer PFA electrostatically deposited on 304 steel, Najoua Barhoumi, Hafedh Dhiflaoui, Kaouther Khelifi, Amir Ben Rhouma, Faouzi Hamdi, Ahmed Ben Cheikh Arbi	ID 153 - Modeling of fatigue behavior of NiTi alloys, Maha Rokbani, Luc Saint-Sulpice, Tarak Bouraoui	ID 156 - Optimal LQR controller for active vibration control of a rotor bearing system using piezoelectric patches, Maryem Brahem, Mnaouar Chouchane
		ID131: Experimental determination of Fe-30Mn-6Si-5Cr shapememory alloy thermomechanical model parameters, Achref Sellami, Malek Megdiche, Tarak Bouraoui, Tarak Ben Zineb	ID 154: A multiaxial fatigue criteria for an aluminum alloy, Adel Hamdi, Chen Shen, Abderrahim Talha, Noureddine Benseddiq	ID 102 - The integration of the cost of the ergonomic risk in an assembly line balancing problem, Jihene Sdiri, Kamel Mehdi, Khaoula El Bedoui
		ID133 - Numerical analysis of kinematic hardening effect incyclic loading of Aluminum alloy 2024, Naïla Hfaïedh, Olfa Daghfas, Amna Znaidi, Housseem Badreddine	ID 155: Effect of heat-aged on the dissipative energy of cyclically loaded CB filled SBR, Amina Dinari, Makram Chaabane, Tarek Benameur	ID 33 - Numérisation d'un tour parallèle, Souheil Elgaied, Mourad Turki, Mondher Benahmed, Mohamed Fethi Bouzid

12h40 – 13h

CLÔTURE

SESSION POSTERS

13 - Evaluation of intense African dust events and contribution to PM10 concentration in Tunisia. [Houda Chtioui](#), [Karim Bouchlaghem](#), [Mohamed Hichem Gazzah](#)

24 - Jet d'eau appliqué à un objet flottant sur l'eau. Partie 1 : Objet de forme parallélépipédique. Investigation d'un phénomène de freinage par l'effet Venturi.
[Romdhane Ben Slama](#)

25- Jet d'eau appliqué à un objet flottant sur l'eau. Partie 2 : Objet de forme cylindrique et sphérique. Investigation d'un phénomène d'attraction et d'entraînement par l'effet Coanda, Magnus. [Romdhane Ben Slama](#)

72 - Corrélation entre transformation martensitique et mise en forme par emboutissage des tôles en acier inoxydable austénitique. [Hedi Bargui](#)

116- Study of Free Vibration Analysis of Advanced Composite Plates (FGP) with Porosities. [Slimane Merdaci](#), [Hakima Belghoul](#), [Adda Hadj Mostefa](#)

136- Effect of additive manufacturing parameters on 316L SS surfaces characteristics. [Houda Yahyaoui](#), [Naoufel Ben Moussa](#), [Mohamed Habibi](#), [Nizar Ben Salah](#)