

Conference (CME2020) program

Day 1: Tuesday, 17 March 2020

Time	Event	Location
07:00 – 08:30	Registration	Cedoc Hall
09:00 – 09:30	Opening ceremony	Amphi B
09:30 – 10:15	Plenary session 1: Vision for a methodological research Prof. Said RECHAK (ENP) Chairs: Prof. ADJLOUT L.(USTO) and Prof. OUALLI H. (EMP)	Amphi B
10:15 – 10 :45	Coffee break	Cedoc Hall
10:45 – 11 :30	Plenary session 2 : Dans l'attente du moteur de demain ou la Propulsion «tout électrique» Prof. BENBRAIKA Mohamed (ENP) Chairs: Prof. HANCHI S. (DFM) and Dr LOUBAR K. (IMT Atlantique)	Amphi B
11:45 – 12:45	Oral sessions 1	Amphi : A, B, 6
12:45 – 14:15	Networking lunch	VIP lounge
14:15 – 15:15	Oral sessions 2	Amphi : A, B, 6
15:15 – 16:00	Poster Session 1 + Coffee break	Cedoc Hall
16:00 – 18:00	Oral sessions 3	Amphi : A, B, 6

Day 2: Wednesday, 18 March 2020

Time	Event	Location
09:00 – 09:45	Plenary session 3 : Apport de l'analyse par diffraction des électrons rétrodiffusés dans la caractérisation des matériaux : Application de l'EBS Dr. BADJI Riad (CRTI) Chairs: Prof. BOUABDELLAH M. (ENP) and Prof. HADDAD M. (EMP)	Amphi B
09:45 – 10:30	Poster Session 2 + Coffee break	Cedoc Hall
10:30 – 12:30	Oral sessions 4	Amphi : A, B, 6
12:45 – 14:15	Networking lunch	VIP lounge
14:15 – 15:00	Plenary session 4 : Approches descriptive des écoulements de fluides non réactifs Prof. Abdelkrim LIAZID (U. Tlemcen) Chairs: Prof HADDAD A. (U. Guelma) and Dr. MEKADEM M. (EMP)	Amphi B
15:00 – 15:30	Coffee break	Cedoc Hall
15:30 – 16:30	Oral sessions 5	Amphi : A, B, 6
16:30 – 17:30	Closing ceremony	Amphi B

Planning of oral sessions

Time	Amphi B	Amphi A	Amphi 6
Day 1: Session 1 11:45 – 12:45	Fluid Flow and control I	Mechanical Behavior of Materials	Robotic and optimization
Day 1: Session 2 14:15 – 15:15	Heat transfer	Composite Materials and Polymers I	Corrosion, Fatigue damage and Rupture
Day 1: Session 3 16:00 – 18:00	Tribologie	Turbomachinery	Elaboration and Characterization of Materials I
	Dynamics of Mechanical Systems	Thermodynamics and rheology	Mechanical Behavior of Materials II
Day 2: Session 4 10:30 – 12:30	Composite Materials and Polymers II	Dynamics of Machines	Internal combustion engine
	Elaboration and Characterization of Materials II	Fluid Flow and control II	Combustion and fuels
Day 2: Session 5 15:30 – 16:30	Composite Materials and Polymers III	Numerical methods and CFD	

Oral session 1

Day 1: Tuesday, 17 march 2020		<i>Fluid Flow and control I</i>	Amphi B
Chairs: Prof. BOUABDELLAH A.(USTHB) and Prof. OUALLI H. (EMP)			
11:45 - 12:05 ID: 145	Investigation of Parietal Pressure Distribution on NACA 0012 Wing Surface Controlled by a Cylindrical Rod Arranged in Tandem <u>Abderrahim LARABI</u> , Laiche MENFOUKH, Boudjemaâ BOUKAKA, Tarek AZZAM, Hamid OUALLI Laboratoire Mécanique des Fluides, Ecole Militaire Polytechnique		
12:05 – 12:25 ID:166	Numerical Investigation of a Model Helicopter Rotor in Hover Condition. <u>Salah Eddine DERBAL</u> , Lyes TARABET and Smail KHALFALLAH Laboratoire des Turbomachines, Ecole Militaire Polytechnique		
12:25 – 12:45 ID: 170	A Comparison of Several Limiters for the DG Method Applied to the Scalar Conservation Equation. <u>Nasreddine BOUGUELLAB</u> and Nouredine HANNOUN. Military Polytechnic School		
Day 1: Tuesday, 17 march 2020		<i>Mechanical Behavior of Materials I</i>	Amphi A
Chairs: Prof. BOUABDALLAH M. (ENP) and Dr. OUKARA A. (EMP)			
11:45 - 12:05 ID: 55	Modeling drying shrinkage of normal and high-performance concretes. <u>Abderraouf KEBIR</u> and Abdelmalek BRAHMA Université Saad Dahleb de Blida, Algeria		
12:05 – 12:25 ID: 73	Influence of Cold Deformation on the Aging Behavior of the Al-Mg-Si alloy. <u>Youssef AOUBADIA</u> , Leila AMIOUR and Abdelhamid BOUBERTAKH Ecole Normale Supérieure de Constantine, Algeria		
12:25 – 12:45 ID: 23	On the Zener-Hollomon analysis of an Mg-RE alloy processed by hot plane strain compression. <u>Fairouze GUERZA-SOUALAH</u> , Hiba AZZEDDINE and Djamel BRADAI Faculty of Physics, University of Sciences and Technology Houari, Boumediene, BP 32 El-Alia, 16111, Algiers, Algeria.		
Day 1: Tuesday, 17 march 2020		<i>Robotic and optimization</i>	Amphi 6
Chairs: Prof. HADDAD M. (EMP) and Dr. AFROUN M. (EMP)			
11:45 - 12:05 ID: 105	PSO Optimization of Type-2 Fuzzy-PID Controller. Application for Robotic Manipulator. <u>Amar REZOUQ</u> and Mohamed Seddiq ZATOUT Laboratoire des Innovations Technologiques, Ecole Nationale Supérieure de Technologie ; dergana, bourdj el kifane, Algiers, Algeria.		
12:05 – 12:25 ID: 60	Contribution to the optimal exploitation of quadri-rotors type drones. <u>Yassine LARABI</u> and Moussa HADDAD, and Hakim Bouadi Ecole Militaire Polytechnique Alger, Algérie.		
12:25 – 12:45 ID: 99	MM-ALE modelisation of a free air burst load in LS-Dyna. <u>Zakaria TITRI</u> , Belkacem BOUNAB and Mohamed Abderaouf LOUAR Dynamics of systems Laboratory, Military Polytechnic School (EMP), PO BOX 17, Bordj-El-Bahri, 16111, Algiers, Algeria		

Oral session 2

Day 1: Tuesday, 17 march 2020		Heat Transfer	Amphi B
Chairs Dr DJELLAL S. (ENP) and Dr BENIAICHE A.(EMP)			
14:15 – 14:35 ID: 24	The overheating in the New Architect for region of Adrar: Cause and Study. Abdellatif OUDRANE, Aour HAMOUDA Laboratory of Sustainable Development and Informatics (LDDI), Faculty of Science and Technology, University of Adrar Ahmed Draya (Algeria).		
14:35 – 14:55 ID: 42	Walls Temperature Difference Effects on Heat and Mass Transfers in Non-grey gas Mixture. Siham LAOUAR-MEFTAH, Amina LAOUTI, Denis LEMONNIER, Abderrahmane BENBRIK M'Hamed Bougara University, Boumerdes, Algeria.		
14:55 – 15:15 ID: 159	Spatio-temporal analysis of thermal plumes in Rayleigh Bénard cavity with wall roughness. Mebarek BELKADI, Anne SERGENT, Yann FRAIGNEAU, and Bérengère PODVIN Laboratoire des Turbomachines, Ecole Militaire Polytechnique, 16111, Algiers, Algeria.		
Day 1: Tuesday, 17 march 2020		Composite Materials and Polymers I	Amphi A
Chairs: Prof. BELOUCHRANI M. A. (ENST) and Dr HENNICHE A (EMP)			
14:15 – 14:35 ID: 29	Interfacial stresses analysis in FG plated beams: porosity Position. Samir BRAIRI1, Bachir KERBOUA, Amine HEBBAZ and Youssouf BELABED Faculty of Technology, University of Tlemcen, Algeria.		
14:35 – 14:55 ID: 36	Prediction of Tensile Behaviour of Water Aged Flax Fabric-Reinforced Composites. Abderrazak CHILALI, Mustapha ASSARAR, Wajdi ZOUARI, Hocine KEBIR and Rezak AYAD Department of Technology, National Preparatory School of Engineering Studies, Algeria		
14:55 – 15:15 ID: 186	Effect of the composition and the micromechanical models on Numerical modeling of functionally graded plates under high velocity impact loads. Kada ZEMANI, Abdelghani MAY and Djalel Eddine TRIA. Laboratoire Génie des Matériaux, Ecole Militaire Polytechnique, 16111, Alger, Algérie.		
Day 1: Tuesday, 17 march 2020		Corrosion, Fatigue damage and Rupture	Amphi 6
Chairs: Prof. ABERKANE MEZIANE (U. Tizi Ouzou) and Dr. TRACHE D. (EMP)			
14:15 – 14:35 ID: 59	Mechanical and corrosion behavior of E309mol-17/e316l-17 deposited with SMAW process. Sarra DJEMMAH, Y. MADI, D. ALLOU, H. Debiane Scientific Research Center in Industrial Technologies (CRTI), Chéraga, Algiers, Algeria.		
14:35 – 14:55 ID: 103	Inhibitive action of some organic imines towards corrosion of mild steel in HCl 1M: Experimental and theoretical approach. Yasmine BOUGHOUES, Messaoud BENAMIRA, Lyamine MESSAADIA Laboratory of Materials Interaction and Environment (LIME), University of Jijel, Algeria.		
14:55 – 15:15 ID: 102	Effect of Residual Stress due to Cold Expansion Process on Fatigue Crack Initiation and Crack Growth. Mohamed El Habiri, Nadjia BENACHOUR, Mustapha BENACHOUR IS2M Laboratory, Mechanical Enginnerring Department, Faculty of Technology,University of Tlemcen, Tlemcen, Algeria		

Oral session 3

Day 1: Tuesday, 17 march 2020		Tribology	Amphi B
		Chairs: Prof. LABAIZ M. (U. Annaba) and Dr. HEMMOUCHE L. (EMP)	
16:00 – 16:20 ID: 136	Investigation of the influence of MQL on wear and surface roughness during turning. <u>Ali MEDJBER</u> , Idriss TIBAKH, Mohieddine BENGHERSALLAH and Mohamed Athmane YALLESE Laboratoire de recherche des Technologies Avancées en Production Mécanique (LRTAPM), Université Badji Mokhtar, 23000 Annaba, Algérie.		
16:20 – 16:40 ID: 197	Performance Characteristics of a Three-Pad Hydrostatic Squeeze Film Damper Lubricated by Ferrofluid <u>Souad BELGACEM</u> university IBN KHALDOUN of Tiaret, ,research laboratory of industrial Technologies, Department of Mechanical engineering, Tiaret, Algeria.		
16:40 – 17:00 ID: 188	HDPE Pipe Heterogeneity Characterization Using J-Integral Energy and Essential Work of Fracture. <u>Nacira Hamlaoui</u> , Kamel Chaoui, Farouk Mesrafet, Wafia Ghabeche and Slimane Niou Mechanics of Materials & Plant Maintenance Research Laboratory (LR3MI), May 8th 1945 University, Guelma, Algeria.		
Day 1: Tuesday, 17 march 2020		Turbomachinery	Amphi A
		Chairs: Prof. ADJLOUT L. (USTO) and KHALFALLAH S. (EMP)	
16:00 – 16:20 ID: 130	Influences of environmental conditions in Algeria on the design and performance of a turbocharger’s centrifugal compressor. <u>Lakhdar BOURABIA</u> , Mahfoudh CERDOUN, Smail KHALFALLAH and Taha CHETTIBI Laboratoire des turbmachines, Ecole Militaire Polytechnique, Algiers, Algeria		
16:20 – 16:40 ID: 116	Numerical investigation of turbulent flow around the blades of a rotating propeller. <u>Choayb HAMMANA</u> , Zoubir NEMOUCHI and Abdelkader FILALI Laboratoire LEAP, Université Frères Mentouri Constantine, Constantine, Algeria		
16:40 – 17:00 ID: 149	Unsteady Reynolds Averaged Navier-Stokes Simulation of the 3D Flow in a Two-Stage HP Axial Turbine. <u>Kaddour TOUIL</u> , Adel GHENAIET Turbomachinery laboratory, Ecole Militaire Polytechnique, 16111, Alger, Algérie.		
Day 1: Tuesday, 17 march 2020		Elaboration and Characterization of Materials I	Amphi 6
		Chairs: Prof. DJEGHLAL M. A. (ENP) and Dr. TRIA D. (EMP)	
16:00 – 16:20 ID: 151	Sintering of Dental Porcelains Prepared from Local Raw Materials. <u>Fatiha GUERFA</u> , Souheila ZOUAI, Abdelhamid HARABI and Fahima ZENIKHERI Faculty of nature and life science, Matter Science Department, university larbi tebessi, Tebessa 12002 Algeria		
16:20 – 16:40 ID: 50	Effects of Welding Current and Arrangements of Resistance Spot Welding on Mechanical Behavior of Stainless Steel. <u>Mustapha BENACHOUR</u> , Nadjia BENACHOUR, Fethi AISSAOUI, Mohamed BENGUEDIAB IS2M Laboratory, Mechanical Enginnerring Department, Faculty of Technology, University of Tlemcen, Tlemcen, Algeria		
16:40 – 17:00 ID: 181	Elaboration of aluminum foam by space holder technique. <u>Imad DERBALA</u> , Djaleleddine TRIA and Larbi HEMMOUCHE. Laboratoire Génie des Matériaux, Ecole Militaire Polytechnique, 16111, Alger, Algérie.		

Oral session 3

Day 1: Tuesday, 17 march 2020		Dynamics of Mechanical Systems	Amphi B
Chairs: Dr. SAIDOUNI T. (DFM) and Dr. BOUNAB B. (EMP)			
17:00 – 17:20 ID: 96	Computer Implementation of Flexible Multibody Dynamics Using Absolute Nodal Coordinate Formulation. <u>Belloula ABDELFFETTAH</u> , Bounab BELKACEM and Morsli FERHAT. Dynamics of Mechanical Systems Laboratory, Ecole Militaire Polytechnique, 16111-Bordj El-Bahri, Algeria.		
17:20 – 17:40 ID: 39	Experimental Analysis of Dynamic Eccentricity by Stator Current Analysis and Vibration Analysis in Induction Machine. <u>Wissam DEHINA</u> Université de Biskra, Algérie.		
17:40 – 18:00 ID: 18	Remaining Useful Life Prediction for aircraft engines with a new Denoising On-Line Sequential Extreme Learning Machine with Double Dynamic Forgetting Factors and Update Selection Strategy. <u>Berghout TAREK</u> , Leila Hayet MOUSS and Ouahab KADRI Université de Batna, Algérie.		
Day 1: Tuesday, 17 march 2020		Thermodynamics and rheology	Amphi A
Chairs: Dr BOULEKRAA T. (ESTA) and Dr. CERDOUN M (EMP)			
17:00 – 17:20 ID: 78	Isogeometric analysis of the Reynolds equation for hydrodynamic lubrication in journal bearing. <u>Abdelhak MEGDOUD</u> , Belkacem MANSER, Idir BELAIDI, Sofiane KHELLADI and Farid BAKIR Université M'Hamed BOUGARA, Boumerdes, Algeria.		
17:20 – 17:40 ID: 177	Second generation ethanol from waste paper as biofuel for internal combustion engine Wahiba TADMOURT, Karim KHIARI, Lyes TARABET Ecole Militaire Polytechnique, BP17 16046 Bordj El-Bahri, Algiers, Algeria		
17:40 – 18:00 ID: 110	Thermodynamic and Kinetic Behaviors of Copper (II) Adsorption on Unmodified and Modified Kaolinite Clay as Ecofriendly and Low Cost Adsorbents. <u>Aicha Kourim</u> , Moulay Abderrahmane Malouki, Aicha Ziouche And Mouna Boulahbal University of Temnasset, Algeria.		
Day 1: Tuesday, 17 march 2020		Mechanical Behavior of Materials II	Amphi 6
Chairs: Prof. OULD OUALI M. (U.Tizi Ouzou) and Dr. ZERROUDI N. (EMP)			
17:00 – 17:20 ID: 139	Evaluation of the behavior of concrete in shear mode: experimental and numerical study. <u>Ridha BOULIFA</u> , Med Laid SAMAI and Abdelhadi TEKKOUK Department of Civil Engineering, Mohamed Cherif Messaadia University, Souk-Ahras, Algeria.		
17:20 – 17:40 ID: 158	The thermomechanical behavior of an ultra-high performance concrete containing metakaolin. <u>Nawal Siham ADAMOUD OUMI</u> , Hadjila BOURNINE AMRANE, and Ahmed BENYAHIA Ali USTHB- Laboratoire de Mécanique Avancée, Algérie.		
17:40 – 18:00 ID: 204	Parametric optimization of crushable lattice structures under dynamic loading <u>Bouteldja Amar</u> and Louar Mohamed Abderaouf Ecole Militaire Polytechnique, BP17 16046 Bordj El-Bahri, Algiers, Algeria		

Oral session 4

Day 2: Wednesday, 18 March 2020		Composite Materials and Polymers II	Amphi B
Chairs: Prof. CHAOUI K. (U. Annaba) and Dr. BOUDIAF M. (EMP)			
10:30 – 10:50 ID: 115	Stress Distribution Analysis in an Adhesive Layer used in a Single Lap Joint of Two Hybrid Composite Plates Subjected to a Bending Loading. <u>Safa Chahrazed DJEBBAR</u> , Kouider MADANI, Mohamed ELAJRAMI and Nadia KADDOURI Laboratoire de Mécanique des Structures et des solides (LMSS), Université de Sidi Bel Abbès, Sidi Bel Abbès, Algérie		
10:50 – 11:10 ID:82	Free vibration analysis of hybrid laminated plates containing functionally graded graphene nanoplate layer. <u>Chiker Yasser</u> , Saiah Berkane, Guemana Mouloud and Bachene Mourad. Faculty of Technology, University of Medea, LMP2M Laboratory, Medea, Algeria.		
11:10 – 11:30 ID: 172	Free Vibration of Functionally Graded Material Plates SUS304/Si3N4. <u>Melha Nougat</u> , Rachid Tiberkak, Madjid Ezzraimi, Said Rechak Laboratory of Mechanical Engineering and Development, Ecole Nationale Polytechnique, Algiers, Algeria		

Day 2: Wednesday, 18 March 2020		Vibrations and Mechanical Maintenance	Amphi A
Chairs: Dr. BOUMEDIEN F.(USTHB) and Dr. BENABID Y. (EMP)			
10:30 – 10:50 ID: 128	Induction motor air-gab eccentricity detection using Hilbert Huang Transform: experimental research. Asma Guedidi, Abderrazak guettaf, Widad Laala, Ali Arif and Wissam Dehina University Mohammed Khider Biskra,, Department of Genie Electrique, Laboratoires de modulization des systems Energétiques (LMSE)		
10:50 – 11:10 ID: 101	Induction Motor Faults Detection and Diagnosis using Temporal Features Directly Extracted from Signal Measurements. <u>Abdallah FALEH</u> and Ammar MEDOUED Department of Electrical Engineering; Skikda, Algeria		
11:10 – 11:30 ID: 62	Modeling maintenance activities in a multi-site company. <u>Soltani Khaoula</u> , Benzouai Messaoud and Mohamed Djamel Mouss, Laboratory of automation and manufacturing, Industrial engineering department, Batna2 University		

Day 2: Wednesday, 18 March 2020		Internal Combustion Engine	Amphi 6
Chairs: Prof. LIAZID A. (U.Tlemcen) and Dr TARABETB L (EMP)			
10:30 – 10:50 ID: 79	New process of continuous biodiesel production based on chaotic advection: Numerical study. <u>Ahmed Lamine BOUKHALKHAL</u> , Yahia LaSbet and Khaled LOUBAR University of Djelfa, 17000 Djelfa, Algeria.		
10:50 – 11:10 ID: 162	Effect of EGR on performances and emissions of DI diesel engine fueled with waste plastic oil: CFD approach. <u>Naima KHATIR</u> and Abdelkrim LIAZID University centre of Naama. 45000,- Algeria		
11:10 – 11:30 ID: 53	Simulation of combustion in a spark ignition engine. <u>Feriel BOUDERBALA</u> and Mohamed BENCHERIF University of sciences and technology MB, Oran Algeria.		

Oral session 4

Day 2: Wednesday, 18 March 2020		Elaboration and Characterization of Materials II	Amphi B
Chairs: Dr. MAY A (EMP) and Dr. MEDJAHED A. (EMP)			
11:30 – 11:50 ID: 6	On some microstructural parameter variation of a Ni-W alloy processed by Groove Pressing. <u>Siham KORICHE</u> , HIBA Azzeddine, Saadia BOUDEKHANI-ABBAS, Anne-Laure Helbert, Francois BRISSET, Thierry BAUDIN, Djamel BRADAI Faculty of Physics, University of Sciences and Technology Houari, Boumediene, Algeria.		
11:50 – 12:10 ID: 150	Sintering and mechanical properties of diopside prepared from algerian raw materials. <u>Souheila ZOUAI</u> , Fatiha GUERFA and Abdelhamid HARABI Faculty of Nature and Life Science, Material Science Department, Tebessa University, Algeria		
12:10 – 12:30 ID: 90	Micro-Texture Effect on Fracture Stopping in Carbon Steel during Drawing Khelifi Sarra, GUERABLI Youcef, Ahcene BOUMAIZA Laboratoire de Physique de Rayonnement et Applications, Université Mohammed Seddik ben Yahia- Jijel, Algérie		

Day 2: Wednesday, 18 March 2020		Fluid Flow and control II	Amphi A
Chairs: Dr HANNOUN N. (USTHB) and Dr MEKADEM M. (EMP)			
11:30 – 11:50 ID: 142	Numerical Investigations of the Secondary flow Separation Around a Circular-Cone at Subsonic Flows Conditions. <u>Noureddine SAIDI</u> , Mahfoudh CERDOUN, Abderahim LARABI, Tarik AZZAM Ecole Supérieure Ali CHABATI, Reghaia, Algiers, Algeria.		
11:50 – 12:10 ID: 49	A simple method for the design of supersonic nozzles of arbitrary cross-section shape <u>N BOUGHAZI</u> , A HADDAD. Laboratoire de Mécanique Appliquée des Nouveaux Matériaux Université 8 Mai 1945 Guelma-24000, Algeria		
12:10 – 12:30 ID: 202	Numerical assessment of aerothermal effects within rib-roughened channel: impacts of rotating conditions <u>Ahmed BENAICHE</u> Mahmoud NADIR, Mahfoudh CERDOUN Laboratory of propulsion and reactifs system, Ecole Militaire Polytechnique, 16111, Alger, Algérie.		

Day 2: Wednesday, 18 March 2020		Combustion and Fuels	Amphi 6
Chairs: Prof. HADDAD A. (U. Guelma) and Dr BELMRABET T. (EMP)			
11:30 – 11:50 ID: 187	Experimental and numerical study of biogas and syngas flames. <u>Toufik Boushaki</u> , Fathia Manseur, Yassine Rahib, Pablo Escot Bocanegra and Brahim Sarh University Orleans		
11:50 – 12:10 ID: 156	Experimental Study of the Temperature Effect on the Dynamic Structures of an Axisymmetric Descending Turbulent Air Jet. Mohamed Salah BOULAHILIB, Lyes BIDI and Salim BOUKEBBAB Centre of Research in Mechanics, Constantine, Algeria		
12:10 – 12:30 ID: 165	Initiation to Hybrid Rocket Propulsion Technology and Motor Fueled Paraffin Combustion Theory. <u>Moahmed BOUZIANE</u> Ecole Militaire Polytechnique, 16111, Alger, Algérie.		

Oral session 5

Day 2: Wednesday, 18 March 2020		Composite Materials and Polymers III	Amphi B
Chairs: Dr. BOUDIAF A. (EMP) and Dr. LOUAR R. (EMP)			
15:30 – 15:50 ID: 198	Study of the effect of angle variation on the mechanical properties in the plane of auxtic cores (honeycomb reentrant). <u>Mohamed Tahar Melouah</u> and Kaoua Sidi Ali University of Science and Technology Houari Boumediene, Babezzouar, Algiers, Algeria		
15:50 – 16:10 ID: 80	Structural and Optical Properties of Multilayer Tio2 Thin Films Prepared by Spin Coating Method. <u>Fatma ZERIBI</u> , Abdallah ATTAF and Lazhar BENMEBROUK Univ Ouargla, Fac. Mathematics and Matter Sciences, Lab. Radiation and Plasmas and Surface Physics, Ouargla 30 000, Algeria		
16:10 – 16:30 ID: 69	Numerical Investigation of Low-Velocity Impact on Fiber-Metal Laminate (GLARE). <u>Fodil IBRAHIM</u> Labo moteur, Unité de Recherche et Développement des Techniques Automobiles/Tiaret/Algérie		

Day 2: Wednesday, 18 March 2020		Numerical methods and CFD	Amphi A
Chairs: Prof. HANCHI S (DFM) and Dr LOUNICI M. S. (UMBB)			
15:30 – 15:50 ID: 199	Iterative mesh-based algorithms' acceleration by an approach of Initial fields' design for parametric studies : Application in fluid mechanics. <u>Taghourt ABDEL DJALIL</u> , Sabiha AKLOUCHE-BENOUAGUEF, Belkacem ZEGHMATI University of Science and Technology Houari Boumediene, Babezzouar, Algiers, Algeria		
15:50 – 16:10 ID: 88	Modelling and simulation of conveying of solid particles inside a pipe. <u>Salah ZOUAOU</u> , Hassane DJEBOURI, Brahim FERHAT, and Kamal MOHAMMEDI Mouloud Mammeri University of Tizi-Ouzou, Tizi-Ouzou, Algeria		
16:10 – 16:30 ID: 107	CFD Performance of k-ω SST Model in Predicting Swirling Annular Flow. <u>Redjem HADEF</u> , Djemai LALMI, Lyes BORDJA University Oum El Bouaghi, Algeria		

Poster session 1

Day 1: Tuesday, 17 March 2020		15:15 – 16:00	Cedoc Hall
Materials			
ID: 43	Transient thermal analysis in a hallow of exhaust valve. Bouziane Fersaoui, Abdelghani MAY and Mahfoudh CERDOUNal. Laboratoire Génie des Matériaux, Ecole Militaire Polytechnique, 16111, Alger, Algérie.		
ID: 81	Parametric Study of the Milling Stability Using Semi-Discretization Method. Mohamed DAMOUS, Amine BELMADANI Et Nasreddine Zeroudi Laboratoire Techniques Avancées de Fabrication et Contrôle, Ecole Militaire Polytechnique, 16111, Alger, Algérie.		
ID: 178	Effect of temperature, duration of pre-mixing on the dispersion of kaolin powder in epoxy resin. Roubache Ridha, M.D.D. Boudiaf Laboratoire Génie des Matériaux, Ecole Militaire Polytechnique, 16111, Alger, Algérie.		
ID :203	Dynamic Characterization of High Strength Armour Steel Salah HEDJERES, Djalel Eddine TRIA, Abdelkhalek HENNICHE, Achraf BOUDIAF, Salim HASSANI École Militaire Polytechnique, BP17 Bordj El-Bahri,16046 Algiers, Algeria		
Energetic and Fluid			
ID: 77	Leak detection of natural gas in pipes using the characteristics method. Khadidja AMARA, Mohand KESSAL and Idir BELAIDI Laboratoire Energétique, Mécanique et Ingénieries. Faculté des Sciences de l'Ingénieur, Université M'Hamed BOUGARA, Boumerdes - Algérie		
ID: 169	Experimental study of evaporation of sessile droplets: comparison of methanol and water. Abderrahmane DOURARI, Rafik LANKRI and Salah CHIKH Laboratoire des turbomachines, Ecole Militaire Polytechnique, 16111, Alger, Algérie.		
ID: 11	CFD Analysis of Film Cooling - Effects of Blowing Ratio and Solid Deposits. Ahmed GUELAILIA, Azzeddine KHORSI, Sid Ahmed SLIMANE, Amine SMAHAT and Abd El Madjid BOUDJEMAI Centre of Satellite Development (CDS), Space Mechanical Research Department,Ibn Rochd USTO Oran, Algeria		
ID: 132	Modeling Aerodynamic Efforts Applied to the Rotating Blades of a Vertical Wind Turbine. Ayoub TALAMALEK, Abdelwahed BOUTEMDJET, and Takfarines AIT ALI and Mahfoud CERDOUN Laboratoire Mécanique des Fluides, Ecole Militaire Polytechnique, 16111, Alger, Algérie.		
ID: 189	The Effect of Pulsated Inner Cylinder On The First Instability Trigring in Taylor-Couette Flow khirennas MESSAOUD, OUALLI Hamid, MEKADEM Mahmoud, BENAICHE Ahmed, BOUABDALLAH Ahcène Laboratoire Mécanique des Fluides, Ecole Militaire Polytechnique, 16111, Alger, Algérie.		
Mechanical systems and structures			
ID: 146	Game Theory and Simulated Annealing Optimization Based Path Planning for Multi-Mobile Robots Mohammed Amine BOUDJELLEL, Mohammed GUIATNI Ecole Militaire Polytechnique, 16111, Alger, Algérie.		
ID: 67	SPATIAL MOVEMENT OF CABLES-DRIVEN ROBOTS Abdelkader BENMISRA, Abderrahmane BELAIDI, et al. University of Blida		
ID: 137	Multi-objective optimization of performance parameters in machining AISI D3 intended tool steel for cold working Khaoula SAFI, Med Athmane YALLESE, Salim BELHADI, Tarek MABROUKI and Abdelkrim HADDAD University of Guelma		

Poster session 2

Day 1: Tuesday, 17 March 2020		09:45 – 10:30	Cedoc Hall
Materials			
ID: 37	Simulation of Cd_ free high efficiency Cu2ZnSnS4 (CZTS) based Thin Film Solar Cell. Abd El Halim BENZETTA, Mahfoud ABDERREZEK and Mohammed Elamine DJEGHLAL Laboratoire Génie des Matériaux, Ecole Militaire Polytechnique, 16111, Alger, Algérie.		
ID: 141	Study of the effect of chromium plating on the tribological behavior of the steel XC48. Rihab ZELLAGUI, Larbi HEMMOUCHE and Hassiba AIT SADI Laboratoire de Génie des Matériaux, Ecole Militaire Polytechnique BP17 Bordj El Bahri, Algérie		
ID: 70	Effect of Geometrical Modification to Performing a Simple Lap Joint assemblies Mehadjia BEZZERROUKI, Kouider MADANI, Abderrahmane SAHLI University of Djillali Liabes, LMPM Laboratory, Sidi-Bel-Abbes, Algeria		
Energetic and Fluid			
ID: 92	Aerodynamics performances simulations of a novel Small Wind Turbine in low wind Mohamed Amin Hellalbi and Ahcene Bouabdallah University of Science and Technology Houari Boumediene, Algies, Algeria.		
ID: 93	Numerical Study of heat transfer in square cavity using copper-water nanofluid. Badis MERADI, Meriem AMOURA, University of Science and Technology Houari Boumediene, Algies, Algeria.		
ID: 201	Effect of a porous layer on heat transfer by natural convection in a T-shaped cavity. Redouane BELALA, Abedslam OMARA Université de frere Mentouri, Constantine, Algeria.		
ID: 22	Effect of varying Fins depths on the Thermal Performance in an Annular Channel of a Rotor-Stator. Youcef ATTOU, Abed MEGHDIR, Mohammed BOUHAFS, Rabia FERHAT Institut de Maintenance et de Sécurité industrielle Oran, Algérie		
ID: 194	Longitudinal stability limits of warped planning hull forms with the virtual prismatic hull method. Liazid KERHA, Belkacem BOUNAB, Hamid OUALLI Ecole Militaire Polytechnique BP17 Bordj El Bahri, Algérie		
Mechanical systems and structures			
ID: 108	Modal Analysis of Isotropic Rotating Beams Using Pseudo-Analytical Approach Sehla FERHAT and Faiza BOUMEDIENE Centre for the Development of Advanced Technologies (CDTA), Baba Hassen, Algiers, Algeria		
ID: 184	Finite Element Modeling of Blast Waves Propagation in Tubular Structures. Mohamed Abderaouf Louar, H. Ousji, Bounab Belkacem, J. Vantomme and L. Pyl. Laboratoire Dynamique des Systèmes Mécaniques, Ecole Militaire Polytechnique, 16111, Alger, Algérie.		