1st International Conference on Materials Science and Engineering

ICMSE2021

PARTICIPATION CERTIFICATE

This is to certify that **Kelthoum Dighech**, **"Physic Laboratory of Thin Films and Applications (LPCMA), University of Biskra"**, attended the **1st International Visio Conference on Materials Science and Engineering ICMSE2021**, held at the University of Khenchela, Algeria on November 17-18th, 2021 and presented in oral session a paper entitled :

"Microstructural characterization of X70 heat treated welded pipeline steel"

Authors : ***Kelthoum Dighech Farid Lekmine Farida khamouli Abdelouahed Chala***

The conference is organized by the ***Faculty of Sciences and Technology, University Abbes Laghrour,*** Khenchela.

Algeria, Khenchela: November 18th, 2021

General Chair
Dr. Abdelaziz ABBOUDI

VISIO - INTERNATIONAL Conférences
V - ICMSE
UNIVERSITÉ ABBÉS LAGHROUR -KHENCHELA
ON MATERIALS SCIENCE and Engineering

ICMSE2021

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People's Democratic Republic of Algeria
Ministry of Higher Education and Scientific Research
UNIVERSITY Abbes Laghrour Khenchela
Faculty of Sciences and Technology

Conference Program

1st International Visio Conference on Materials Science and Engineering

(ICMSE 2021)

Organized by

UNIVERSITY Abbes Laghrour, Khenchela

Faculty of Sciences and Technology Organize

1st International Conference on Materials Science and Engineering (ICMSE 2021)

November 17-18, 2021, Khenchela, Algeria

ICMSE'2021 Technical program

Day/Hour	08:30 10:00	10:00 10:30	10:30 12:30	12:30 14:30	14:30 16:10	16:10 16:30	16:30 18:10
Wednesday Nov, 17th 2021	Opening	*Plenary Session* I	-S1: M-MC - S2 : MPE - S3 : RE - S4 : SM	Lunch	- S5 : M-MC - S6 : MPE - S7 : RE - S8: SM	Coffee break	- S9 : M-MC - S10 : MPE - S11 : MPE - S12: SM
Thursday Nov, 18th 2021	*Plenary Session* 2	Coffee break	-S13 :M-MC - S14 : MPE - S15 : RE - S16 : SM	Closing and Lunch			

S: Sessions:

M : Materials

SM : Structural Material

MPE : Materials Processing Engineering

MC: Material Chemistry

RE : Renewable Energy

Wednesday 17th Novembre 2021

Amphi

Opening and registration
of the First international conference ICMSE2021: 09h-10h00

Plenary Session 1

Chairs : Pr. Chala Abdelhouahad , Pr. Djelloul Abdelkader and Dr. Abboudi Abdelazziz

9h30-10h15	***The Ftir Spectroscopy, as an Effective Tool for the Characterization of Matter and Materials*** ***Pr. Boumaza Abdecharif***	**ICMSE2021 SP1**

Coffee break : 10h15-10h30

Wednesday 17th Novembre 2021
Amphi

Session S1-M-MC : Materials- Material Chemistry

Chairs : Pr. Boumaza Abdecharif and Pr. Djelloul Abdelkader

10h30- 10h50	***Structural and Mechanical Properties of TiN films – Ab initio calculations and experiment*** ***Sara Fares, Linda Aissani, Abdelhak Ayad, Abderahmane Cheriet and Akram Alhussein***	**ICMSE2021 M-MC_155**
10h50- 11h10	***SnO2 thin films BY Spray Pyrolysis*** ***Sabrina Roguai and Abdelkader Djelloul***	**ICMSE2021 M-MC_59**
11h10- 11h30	***Structural, microstructural and optical propreties of zinc oxide and Fe-doped ZnO nanoparticles prepared by simple coprecipitation method*** ***Sabrina Roguai and Abdelkader Djelloul***	**ICMSE2021 M-MC_53**
11h30- 11h50	***Characterization and analytical study of the chemical elements of source waters of the Khenchela Wilaya*** ***Miyada Ouanes, Mamoun Fellah, Laala Ghilani and Hadjer Fellah***	**ICMSE2021 M-MC_203**
11h50-12h10	***The influence of aluminum oxide nanoparticles on the thermal behavior of a heat exchanger*** ***Abdelmadjid Chehhat, Amara Daas, Chemseddine Derfouf and Noureddine Belghar***	**ICMSE2021 M-MC_174**
12h10- 12h30	***physicochemical characterization of intercalated kaolinite*** ***Sabiha Hakkar, Naouel Hezil and Mamoun Fellah***	**ICMSE2021 MPE_139**

Wednesday 17th Novembre 2021

Room 1

Session S2-MPE: Material Processing Engineering

Chairs: Dr. Chahaoui Oualid and Dr. Ghelani Laala

10h30- 10h50	***CFD Analysis of Forced Convection in Multiple Stacked Disk Aluminum Foam Heat Sinks*** ***Salim Boulahrouz, Noureddine Sid and Abdelaziz Aboudi***	**ICMSE2021 MPE_170**
10h50- 11h10	***Simulation of Radiation Damage Effects in n-on-p Pixel Sensors*** ***Djamai Djemouai***	**ICMSE2021 MPE_177**
11h10- 11h30	***Numerical Study of a thermohydraulic Behavior of Metal Foam Pin-fin Heat Sink*** ***Noureddine Sid, Salim Boulahrouz and Abdelaziz Aboudi***	**ICMSE2021 MPE_194**
11h30- 11h50	***On the calculation of anisotropy behavior for DC04 sheet using Hill48 function under associated and non-associated flow rule approach*** ***Oualid Chahaoui, Makhlouf Ledmi, Bouaziz Belabed and Sami Benmansour***	**ICMSE2021 MPE_200**
11h50-12h10	***ANN Approach to Predict the Flow Stress of CMn (Nb-Ti-V) Micro Alloyed Steel Based on Compression Tests*** ***Allaoui Abdelhalim, Abboudi Abdelaziz, Guedri Abdelmoumen and Darsouni Lamia***	**ICMSE2021 MPE_164**
12h10- 12h30	***Prediction of the flow stress by an improved Arrhenius-type model with a series of variable coefficients depending on the strain*** ***Allaoui Abdelhalim, Abboudi Abdelaziz, Guedri Abdelmoumen and Darsouni Lamia***	**ICMSE2021 MPE_163**

Wednesday 17th Novembre 2021

Room 2

Session S3-RE1: Renewable Energy

Chairs : Pr. Bououden Sofiane and Dr. Fouad Allouani

10h30- 10h50	*Sensorless Speed Control of Synchronous Variable Reluctance Motor drive using DTC and MRAS Observer* *Laggoun Louanasse and Beddiaf Yassine*	ICMSE2021 RE_8
10h50- 11h10	*New fractional wavelet with compact support* *Lanani Abderrahim*	ICMSE2021 RE_81
11h10- 11h30	*Signals Denoising Using Fractional Wavelets* *Lananai Abderrahim*	ICMSE2021 RE_169
11h30- 11h50	*MPPT tracking algorithm based on the Perturbation and Observation method* *Saidi Abdelkader, Azoui Boubekeur, Ghenai Chaouki and Beddiaf Yassine*	ICMSE2021 RE_94
11h50- 12h10	*Fuzzy Fast Terminal Sliding Mode Control of Mobile Robot Trajectory Tracking* *Ali Mallem and Walid Benaziza*	ICMSE2021 RE_50
12h10- 12h30	*Structural, Morphological, Optical and Electrical Properties of p-Cu2O Thin Film Solar Cells* *Rafiaa Kihal, Hassiba Rahal, Samia Rahal and Abed Mohamed Affoune*	ICMSE2021 RE_172

Wednesday 17th Novembre 2021

Room 3

Session S4-SM: Structural material

Chairs : Pr. Zedira Hamma and Dr. Brek Samir .

10h30- 10h50	*Synthesis, Spectral, Structural Characterizations and HSA of the interactions in a New Zwitterionic Schiff Base* *Abdenour Guerraoui, Fellahi Zineb, Direm Amani, Thabti Salima, Djedouani Amel and Boumaza Abdecharif*	ICMSE2021 SM_124
10h50- 11h10	*Influence of Sintering Temperature and Additive Element Content on the Structural and Mechanical Behavior of a Binary (Ti-Nb, Ti-Mo) and Ternary (Ti-Nb-Zr, Ti-Mo-Nb) β-type Alloy for Biomedical Applications* *Marwa Dahmani, Mamoun Fellah, Naouel Hezil, Mohamed Cherif Benoudia, Chaima Boukhalfa and Adel Saoudi*	ICMSE2021 SM_162
11h10- 11h30	*Microstructural characterization of X70 heat treated welded pipeline steel* *Lekmine Farid, Digheche Kelthoum, Khamouli Farida and*	ICMSE2021 SM_199

	Chala Abdelouahed	
11h30- 11h50	*Prediction of flow stresses of a microalloyed steel by neural approach* *Allaoui Abdelhalim, Ghelani Laala, Abboudi Abdelaziz, Guedri Abdelmoumen and Darsouni Lamia*	**ICMSE2021 SM_171**
11h50- 12h10	*Determination of the effects of carburizing treatment parameters on hardness and surface roughness using the linear regression method* *Sofiane Touati, Laala Ghelani, Salah Hammoudi and Amina Zemmouri*	**ICMSE2021 SM_173**
12h10- 12h30	*Electrochemical preparation and properties of Ni/SiC composite coatings* *Laala Ghelani, Abdelaziz Abboudi, Abdelhalim Allaoui, Sofiane Touati and Amina Zemmouri*	**ICMSE2021 SM_180**

Lunch : 12h50- 14h30

Wednesday 17th Novembre 2021

Amphi

Session S5-M-MC : Materials- Material Chemistry

Chairs : Pr. Boumaza Abdecharif and Pr. Falek mokhtar.

14h10- 14h30	*Study of lubricant type effect on the friction losses between rings and cylinder liner* *Brahim Menacer and Bouchetara Mostefa*	**ICMSE2021 MPE_37**
14h30- 14h50	*Structural characterization of CuBi2O4 by the maximum-entropy method: Beyond the Rietveld method* *Oussama Baaloudj, Noureddine Nasrallah and Aymen Amin Assadi*	**ICMSE2021 M-MC_07**
14h50- 15h10	*Electronic structure and ferromagnetic properties of doped strontium sulfide Sr0.875 TM0.125 S (TM= Ti, V, and Cr)* *Warda Elaggoune*	**ICMSE2021 M-MC_21**
15h10- 15h30	*Nucleation and growth mechanisms of nickel thin films prepared by electrodeposition* *Lamaa Aouissi, Hayet Moumeni and Abdeerafik Nemamcha*	**ICMSE2021 MPE_92**
15h30- 15h50	*The mechanical behavior of washed and unwashed LDPE films weathered in a sub-Saharan region (Ghardaïa, Algeria)* *Souad Behissa, Nourelhouda Benmiloud, Salem Fouad Chabira and Mohammed Sebaa*	**ICMSE2021 M-MC_101**
15h50- 16h10	*DFT investigation of a new half metallic perovskite CaYO3* *Djezzar Nor El Houda, Driss-Khodja Kouider and Amrani Bouhalouane*	**ICMSE2021 M-MC_108**

16h10- 16h30	*Theoretical investigation of the structural, electronic and elastic properties of the ternary LiNaTe* *Khelefhoum Abdelhamid, Sidoumou Mohamed and Bouchenafa Mohamed*	ICMSE2021 M-MC_155

Wednesday 17th Novembre 2021

Room 1

Session S6-MPE: Material Processing Engineering

Chairs: Dr. Chahaoui Oualid and Dr. Belgecem Mamen.

14h10- 14h30	*3D Numerical Modeling of Piezoelectric Composites Structures using Finite Elements Method* *Seyfeddine Zeghichi, Kamel Meftah, Hossam Djahara and Lakhdar Sedira*	ICMSE2021 MPE_188
14h30- 14h50	*Vickers hardness, Melting point, Debye temperature and Peierls stress of cubic ARh3B and ARh3C (A= Sc, Y, and La) perovskite materials* *Rabie Mezouar, Hamza Rekab-Djabri, Salah Daoud and Pawan Kumar Saini*	ICMSE2021 MPE_05
14h50- 15h10	*Structural Stability, Phase Transition, And Thermodynamic Properties Of LiCaP Half-Heusler Material* *Sabrina Bounab, Abdelouahab Bentabet and Youcef Bouhadda*	ICMSE2021 MPE_17
15h10- 15h30	*Numerical analaysis of behavior of reinforced concrete corbel by external strengthening* *Zaioune Hiba and Mezhoud Sami*	ICMSE2021 MPE_20
15h30- 15h50	*Mechanical Elaboration and characterization of the Fe1.8B0.2 Single phase* *Saida Boukeffa, Lamia Mezni, Wassila Tebib and Locif Redouani*	ICMSE2021 MPE_27
15h50- 16h10	*Effect of Rayleigh number on streamlines and isotherms within different cavity shapes using Cu-Al2O3-H2O Hybrid nanofluid* *Kamel Chadi, Sami Mohammed Saleh Momen, Nourredine Belghar, Said Mekroussi and Sahraoui Kherris*	ICMSE2021 MPE_61
16h10- 16h30	*Impact of geometric shape of cavity on heat exchange using hybrid nanofluid* *Kamel Chadi, Abdelaaziz Aboudi, Sami Mohammed Saleh Momen and Nourredine Belghar*	ICMSE2021 MPE_70

Wednesday 17th Novembre 2021

Room 2

Session S7-RE1: Renewable Energy

Chairs : Dr. Beddiaf Yassine and Dr. Lanani Abderrahim

14h30- 14h50	*Effect of thermal aging above the glass transition temperature on the mechanical properties of rigid PVC tube* *Zineb Hadj Amar, Salem Fouad Chabira and Mohamed Sebaa*	ICMSE2021 RE_35
14h50- 15h10	*Control , Management and Performance Assessment of PV / SuperCapacitor Standalone Microgrid* *Yasmine Amara*	ICMSE2021 RE_109
15h10- 15h30	*Assessement of Power Transformers State by Techniques Based on Electrical Conduction Processes* *Beldjilali Abdeslem*	ICMSE2021 RE_57
15h30- 15h50	*Experimental study of heat exchanges of solar air collector duct with different numbers and positions of baffles* *Zouhair Aouissi, Foued Chabane, Mohamed-Saleh Teguia, Djamel Bensahal, Noureddine Moummi, Abdelhafid Brima and Noureddine Belghar*	ICMSE2021 RE_58
15h50- 16h10	*Energy performance evaluation of ejector-expansion refrigeration system without and with a booster using ternary azeotropic systems as working fluids* *Youcef Maalem, Abdnour Zerfa, Mohammed Mehemmai, Youcef Tamene, Hakim Madani and Saida Fedali*	ICMSE2021 RE_64
16h10- 16h30	*Improving the performance of pin solar cell by optimizing its active layer of p-Cu2O Thin Film Solar Cells* *Saida Mellal, Nahla Djebari, Toufik Ziar and Hichem Farah*	ICMSE2021 RE_161

Wednesday 17th Novembre 2021

Room 3

Session S8-SM: Structural material

Chairs : Pr. Belghar noureddine and Dr. Hezil Naouel

14h10- 14h30	*Experimental and numerical study of the adsorption of organic matter by clay* *Hichem Tahraoui*	ICMSE2021 MPE_76
14h30- 14h50	*The study of physical and supercapacitive properties of carbon prepared from redwood* *Chaima Boukhalfa, Ahlam Bourouis, Nadjah Sobti, Slimane Achour, Abdelali Hayoun and Marwa Dahmani*	ICMSE2021 SM_86

14h50- 15h10	*Water Heating and direct steam production by station for a Parabolic Trough Collector (PTC) connected in series and parallel in the region of Ouargla* *Achouri Intissar, Soudani Mohammed Elbar, Berrebeuh Mohamed Hafed and Tlili Salah*	ICMSE2021 SM_89
15h10- 15h30	*Adsorption of MO dye by two natural Algerian bentonites* *Ali Boukhemkhem, Carmen Belen Molina and Alejandro Pizarro Herrero*	ICMSE2021 SM_103
15h30- 15h50	*Properties of clinker substituted cement with rice husk* *Briki Lyamine, Zedira Hamma and Lahbari Noureddine*	ICMSE2021 SM_120
15h50- 16h10	*Experimental Assessment of the Post-Fire Properties of Concrete* *Baghdadi Mohamed, Dimia Mohamed Salah and Guergah Cherif*	ICMSE2021 SM_123
16h10- 16h30	*PHYSICOCHEMICAL PROPERTIES OF COTTON SEED OIL AND PRODUCTION OF BIODIESEL BY TRANSESTERIFICATION* *Oumelkheir Rahim and Rabab Zatout*	ICMSE2021 SM_126

Coffee break: 16h15- 16h30

Wednesday 17th Novembre 2021

Amphi

Session S9-M-MC : Materials- Material Chemistry

Chairs : Pr. Djelloul Abdelkader and Dr. Meddour Belkacem .

16h30- 16h50	*Elaboration and Characterization of Nano-Crystalline Layers of Transparent Titanium Dioxide (TiO2) Deposited by Sol-Gel(Spin-Coating) Technique for Photovoltaic Applications* *Fatma Zeribi, Abdallah Attaf and Lazhar Benmebrouk*	ICMSE2021 M-MC_165
16h50- 17h10	*Structural, optical and electrical properties of Cu –doped SnO2 nanostructures* *Warda Darenfad, Noubeil Guermat, Kamel Mirouh and Abderrahmane Bouabellou*	ICMSE2021 M-MC_179
17h10- 17h30	*Structural characterization and magnetic properties of nanocrystalline Fe-10 at. % Pb alloy powders synthesized by mechanical alloying process* *Nesrine Hasnaoui and Ali Hafs*	ICMSE2021 MPE_193
17h30- 17h50	*Electrical properties and structural study of Bi1.5-x Cax Sb1.5CuO7 (0 ≤ x ≤ 0.4) Pyrochlore-type solid solution series* *Rafik El Arslene Dra, Ahmed Bekka and Robert Dinnebier*	ICMSE2021 M-MC_02
17h50- 18h10	*EFFECT OF EPOXIDIZED SUNFLOWER OIL AS BIOPLASTICIZER ON POLY(LACTIC ACID) PROPERTIES* *Bouti Mohamed*	ICMSE2021 M-MC_24

18h10- 18h30	*Study of the Behavior of clayey soil* *Agraine Hana and Bouali Meriem Fakhreddine*	ICMSE2021 M-MC_26

Wednesday 17th Novembre 2021

Room 1

Session S10-MPE: Material Processing Engileering

Chairs: Dr. Belgecem Mamen and Dr. Boulehrouz Salim

16h30- 16h50	*Electrochemical study of the corrosion inhibition of carbon steel in hydrochloric acid pickling solutions by Gum Arabic as an eco-friendly inhibitor* *Bouzid Bouamra, Mounir Djellab, Hamza Bentrah, Hicham Taoui, Abdelouahad Chala and Slimane Kherief*	ICMSE2021 MPE_72
16h50- 17h10	*Effective corrosion inhibition of API 5L X70 steel in hydrochloric acid 5% by Bark resin of Schinus molle* Slimane Kherief, Hamza Bentrah, Mounir Djellab, Hicham Taoui, Abdelouahad Chala, Bouzid Bouamra.	ICMSE2021 MPE_73
17h10- 17h30	*Behavior of Crosslincable Peroxide-XLPE HV Insulation Under Cyclic Accelerated Weathering Aging* *Saadya Afeissa, Larbi Boukezzi, Lakhdar Bessissa and Amina Loucif*	ICMSE2021 MPE_77
17h30- 17h50	*The thermal degradation of new dimeric crystal structure Co2(IQ)4(Benz)2(µ-Benz)2 µ-O* *Oussama Khaoua, Noura Benbellat, Samira Zeroual and Abdelkrim Gouasmia*	ICMSE2021 MPE_80
17h50- 18h10	*Influence of wet grinding on the release of phosphate grains and gangue mineral grains of the of phosphate ore, case of Djebel Onk, Algeria* *Tourkia Tahri, Nacer Bezzi, Abdellali Bouzenzana, Mehmet Sabri Celik, Omar Sekiou and Aissa Benselhoub*	ICMSE2021 MPE_85
18h10- 18h30	*Influence of inhibitory effect of ascorbic acid on the corrosion resistance of X60 steel in seawater medium* *Nour Elhouda Sobhi, Amel Boukhouiete and Malika Foudia*	ICMSE2021 MPE_88

Wednesday 17th Novembre 2021

Room 2

Session S11-MPE: Material Processing Engineering

Chairs : Pr. Nedjar Zoheir and Pr. Mamoun Fellah

16h30- 16h50	*Influence of Temperature on Corrosion Inhibition of Carbon Steel by Aqueous Extract of Rumex Vesicarius* *Allaoui Messaouda, Rahim Oumelkheir, Zaoui Manel, Labed Brahim and Bellaoueur Ibtissem*	ICMSE2021 MPE_111
16h50- 17h10	*Synthesis of MAX phases powders: a review* *Oussama Zaidi and Mustapha Nechiche*	ICMSE2021 MPE_137
17h10- 17h30	*Identification of the viscoplastic behavior law of a hot-rolled industrial steel* *Derrez Mimoune and Mohamed Zaaf*	ICMSE2021 MPE_143
17h30- 17h50	*Effect of Rotation Speed on Thermal Behavior and Mechanical Properties of Friction-Welded AA1100 Aluminum Alloy with Mild Steel* *Fares Khalfallah, Boumerzoug Zakaria, Elhadj Raouache and Rajakumar Selvarajan*	ICMSE2021 MPE_159
17h50- 18h10	*Microstructure Evolution and Magnetic Properties of Nanocrystalline Fe90Sb10 Powders obtained by high energy ball milling* *Nassima Guemmoud and Ali Hafs*	ICMSE2021 MPE_189
18h10- 18h30	*Impact of W-Baffled obstacle in a cavity on heat exchange using Ferro Nanofluid* *Momen Sami Mohammad Saleh, Ghelani Laala, Kherris Sahraoui, Belghar Nouredine, Said Mekroussi and Zebbar Djallel*	ICMSE2021 MPE_198

Wednesday 17th Novembre 2021

Room 3

Session S12-SM: Structural material

Chairs : Pr. Zedira Hamma and Pr. Djebaili Hamid

16h30- 16h50	*Modeling of Roughness for Evaluating the Effects of Machining Parameters using Ceramic Tools* *Mohamed Walid Azizi and Moumtez Bensouici*	ICMSE2021 SM_150
16h50- 17h10	*Proposal for a Novel 2d-Structure Based On Photonic Crystals with a Ring Resonator for Future Biosensor Application* *Mehdi Ghoumazi and Hameurlain Messaoud*	ICMSE2021 SM_175
17h10- 17h30	*Effect of Cu addition on thermal stability and the glass*	ICMSE2021

	forming ability in Fe–Nb–B–Si bulk glassy alloy *Ali Hafs and Toufik Hafs*	**SM_190**
17h30- 17h50	*The contribution of mechanical behavior study of metallic vascular endoprostheses* *Samira Bouteraa, Amor Bouaricha and Zahia Zemmouri*	**ICMSE2021** **SM_197**
17h50- 18h10	*Effect of experimental parameters on the biosorption of cationic dye onto raw pomegranate peels* *Imane Akkari, Zahra Graba, Mohamed Mehdi Kaci, Imane Zaamouchi, Nacer Bezzi and Azedine Ferhati*	**ICMSE2021** **SM_90**
18h10- 18h30	*Synthesis and electrical properties of charge transfer complexes based on tetrathiafulvalene-σ-pyridine donors* *Noura Benbellat, Oussama Khaoua, Samira Zeroual, Hanene Soukehal, Saliha Belhouchat and Abdelkrim Gouasmia*	**ICMSE2021** **SM_104**

Thursday 18th November 2021

Amphi

Plenary Session 2

Chairs : Pr. Zedira Hamma and Dr. Meddour Belkacem

9h00-9h45	**Mechanical behaviour of Auxetic metamaterial and structures** **Pr. Abderrezak Bezazi**	**ICMSE2021 SP2**

Coffee break : 10h15-10h30

Thursday 18th Novembre 2021

Amphi

Session S13-M-MC : Materials- Material Chemistry

Chairs : Pr. Boumaza Pr. Djelloul Abdelkader

10h30- 10h50	***Microstructure and Properties of Electrodeposited Ni-Cr coatings containing ZrO2 particles*** ***Saida Marmi, Abdelouahad Chala, Hayat Marmi, Chahinez Siad and Malika Nouadji***	**ICMSE2021 M-MC_46**
10h50- 11h10	***Characterization and behavior of nanoclusters: Ge13, BGe12, AsGe12, RuGe12 and RhGe12*** ***Meriem Benaida, Kamal Eddine Aiadi and Sofiane Mahtout***	**ICMSE2021 M-MC_97**
11h10- 11h30	***Microstructure and properties of electrodeposited Ni-ZrO2 composite coatings*** ***Saida Marmi, Abdelouahad Chala, Hayat Marmi and Chahinez Siad***	**ICMSE2021 MPE_133**
11h30- 11h50	***Adsorption of Phenol from Aqueous Solution on Modified Organo-Bentonite*** ***Hanane Alidra and Faycal Djazi***	**ICMSE2021 M-MC_147**
11h50-12h10	***Structural and magnetic properties of FeCo and FeCoNiV from the first principle*** ***Ouarda Benamara and Ahmed Boufelfel***	**ICMSE2021 M-MC_154**
12h10- 12h30	***THE INHIBITION OF THE CORROSION OF API5L X60 PIPELINE STEEL IN SULFURIC ACID BY GUM ARABIC*** ***Amel Boukhouiete and Nour-El-Houda Sobhi***	**ICMSE2021 M-MC_134**

Thursday 18th Novembre 2021

Room 1

Chairs: Pr. Nadjar Zoheir and Dr. Mamen Belgecem

10h30- 10h50	***Parametric study on free vibration of thin aluminum alloy plate, effect of shape factor and passive control using composite patches*** ***Samir Deghboudj, Wafia Boukhedena and Hamid Satha***	**ICMSE2021 MPE_25**
10h50- 11h10	***Properties of Self-Compacting Sand Concrete made with Marble Waste*** ***Mohamed Guendouz, Djamila Boukhelkhal, Alexandra Bourdot, Islam Larbi Aissa and Zakaria Kadri***	**ICMSE2021 MPE_55**
11h10- 11h30	***Valuation of Rubber Waste and Dune Sand: Mortar for Construction and Environmental Protection*** ***Assia Aidoud, Messaouda Bencheikh, Nacira Khaldi, Ouassila Bahloul, Saida Boualleg and Salima Boukour***	**ICMSE2021 MPE_66**
11h30- 11h50	***Refined theory for bending analysis of laminated composite and sandwich plates and shells*** ***Othmane Allam, Kada Draiche, Fouad Bourada, Redouane Mahiddine and Abdelouahed Tounsi***	**ICMSE2021 MPE_67**
11h50-12h10	***Formulation and evaluation of xanthan gum microspheres for the sustained release of Metformine hydrochloride*** ***Selma Toumi, Madiha Melha Yaoum and Sonia Lefnaoui***	**ICMSE2021 MPE_40**
12h10- 12h30	***The devitrification behavior of antimonates glasses by the non-isothermal method.*** Baya Melik , Malika Nouadji, Fayçal Goumeidane , Mostapha Iezid , Messaoud Legouera , Marcel Poulain .	**ICMSE2021 MPE_47**
12h30- 12h50	***Experimental Study of Ultrasonic Wave Propagation in Mortar During the Maturation Age*** ***Hana Slimani, Nesrine Cheniti, Kamal Abdelli and Tarek Boutkedjirt***	**ICMSE2021 MPE_195**

Thursday 18th Novembre 2021

Room 2

Session S15-RE1: Renewable Energy

Chairs : Pr. Chaiba Azzeddine and Dr. Beddiaf Yassine

10h30- 10h50	***Optimization of a Thin Film Solar Cell Based on CIGS Materials*** ***Benattou Halima***	**ICMSE2021 RE_78**
10h50- 11h10	***Experimental and mathematical modeling of the moisture ratio of the orange slices in forced indirect solar dryer*** ***Mohamed-Salah Teguia, Foued Chabane, Ali Arif, Zouhair Aouissi, Djamel Bensahal, Noureddine Moummi, Abdehafid Brima and Noureddine Belghar***	**ICMSE2021 RE_157**
11h10- 11h30	***Influence of the thermal contact resistance on heat flux transferred through periodically contacting surfaces*** ***Amina Zemmouri, Salaheddine Azzouz, Amar Ayad, Sofiane Touati, Laala Ghelani and Kamel Chaoui***	**ICMSE2021 RE_182**
11h30- 11h50	***Prediction and optimization of cement mortar mechanical strengths and water capillary absorption in presence of rubber and brick waste using artificial neural network and multi objective genetic algorithm*** ***Boukour Salima, Lafifi Brahim, Benmalek Mohamed Larbi and Aidoud Assia***	**ICMSE2021 RE_112**
11h50- 12h10	***Predicting pressure distribution between personalized foam liner and residual limb using finite element analysis*** ***Ismail Boudjemaa, Abderahmane Sahli, Abdelkader Benkhettou and Smail Benbarek***	**ICMSE2021 MPE_09**
12h10- 12h30	***The Transport of Electromagnetic Waves in Integrated Circuits*** ***Amri Houda***	**ICMSE2021 PME_31**

Thursday 18th Novembre 2021

Room 3

Session S16-SM: Structural material

Chairs : Pr. Belghar noureddine and Dr. Boulahrouz Salim

10h30- 10h50	***Contribution à l'étude statique des plaques stratifiées en matériaux composites*** ***Adim Belkacem and Hassaine Daouadji Tahar***	**ICMSE2021 SM_149**
10h50- 11h10	***Optical Properties of Holmium Ions in Antimony Borate Glasses for Photonic Applications*** ***Lina Beghdadi, Majda Hamzaoui and Nesrine Guesmia***	**ICMSE2021 SM_156**

11h10- 11h30	***Glass Compositions Based on Aluminium and Yttrium Fluorides*** ***Benhamideche Chahrazed, Nora Boussouf and Poulain Marcel***	**ICMSE2021 SM_160**
11h30- 11h50	***OAK ROOT BARK EXTRACT AS GREEN CORROSION INHIBITOR FOR STEEL IN 0.5M HCl SOLUTION*** ***Hayat Marmi, Saida Marmi, Malika Nouadji, Abdelouahad Chala, Souhila Marmi and Chahinez Siad***	**ICMSE2021 MPE_68**
11h50- 12h10	***The effect of Semi-coherent interface existence on the mechanical behavior of V/Fe bilayer*** ***Soumia Hamdani and Abdeslam Saad***	**ICMSE2021 MPE_74**
12h10- 12h30	***Characterisation of Cd(II) and Pb(II) analysis in water by complexation*** ***Rayane Nadjet Fassi and Chahrazed Boukhalfa-Djebbar***	**ICMSE2021 MPE_131**

Closing and Lunch 12h30 - 14h00