International Association of Researchers

In Mechanics and Energy

Association Internationale des Chercheurs en Mécanique et Energie

The 8th International Conference on Mechanics and Energy

International Conference on Mechanics and Energy

ICME'2023 Conference Program

December 20-22, 2023, Sousse, TUNISIA

www.icme.aicme.net

ICME' 2023 Conference Program

Time	Wednesday/ December 20, 2023	Thursday / December 21, 2023	Friday / December 22, 2023
08:00	Welcome and registration		
08:30		Keynote 3 / Keynote 4 / Keynote 5	Keynote 8 / Keynote 9 / Keynote 10
10:00		Coffee break / Poster session	Oral session 3
10:30		Oral session 2	
11:30			Coffee break
12:00			Closing Ceremony / Attestation Distribution
12:30	Lunch	Lunch	
14:00	Official Opening Ceremony	Keynote 6 / Keynote 7	
15:00	Keynote 1 / Keynote 2		
16:00	Coffee break / Poster session	Social visit	
16:30	Oral session 1		
19:00	Dinner	Dinner	

WELCOME TO ICME'2023

REGISTRATION

08H00-12H00

LUNCH TIME

12H15-14H00

OFFICIAL OPENING CEREMONY

14H15-15H00

Chair: Pr. Mondher Wali & Pr. Wissem Zghal

(Room 1)

Keynote 1

15H00-15H30

Study of a fuel cell based on superconductors and superfluids and on rare earth oxides

Laboratory of Energy and Materials, University of Sousse, Higher School of Sciences and Technology of Hammam Sousse, Street ABBASSI LAMINE 4011 H. Sousse

Speaker: Pr. Habib Sammouda **Tunisia**

Keynote 2

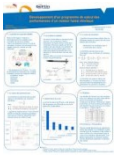
15H30-16H00

Biodiesel from Waste Frying Oil: Production, Characterization and Evaluation of Biodiesel Oxidative Stability with Diesel Blends

Laboratory of Electrochemistry and environment, National School of Engineers of Sfax(ENIS), University of Sfax

Speaker: Pr. Mohamed Bouaziz **Tunisia**

COFFEE BREAK & POSTER SESSION



16H00-16H30

ORAL SESSION N°1

16H30-19H00

SS _ Mechanical and physical characterization/ Computational methods in mechanics

Chair: Pr. Amir Kessentini & Pr. Mondher Walli
(Room 1)

1. **ICME-2023-092:** Numerical investigation of fretting fatigue behavior in titanium alloy components
   Ali Benhamena, Foudil Khelil , Abdelghani Baltach , Fatima Benaoum
2. **ICME-2023-136:** Horizontal and vertical velocity U on the vertical Centerline at differents mesh size
   Abdelhak Bahlouli , Meziani Bachir , Ouerdia Ourrad
3. **ICME-2023-071:** Three-point bending test for Nickel coatings: Effect of heat treatment on coating damage
   Mouna Kallel, Amir Bahri , Dorsaf Rafraf , Khaled Elleuch
4. **ICME-2023-039:** An investigation on low-velocity impact response of a 3D printed PLA material with a honeycomb structure
   Marwa Allouch , Hanen Mallek , Hana Mellouli , Mondher Wali , Fakhreddine Dammak
5. **ICME-2023-069:** Enhancing tensile strength of linocellusic fibers through chemical-treatment
   Samir Zidi, Imed Miraoui
6. **ICME-2023-076:** Numerical Simulation of Severe Plastic Deformation Effect by HPT Process on Plastic Behavior of Amorphous Polymers
   Ahmed Drai, Benaoumeur Aour, Abderrahim Talha, Noureddine. Benseddiq, Abdelhak Benaoum, Hachemi Nedir
7. **ICME-2023-078:** Experimental and Numerical Study of Multiaxial Loading Spot Welding
   Seddik Shiri, Slim Ben-elechi
8. **ICME-2023-042:** Prediction stress distribution in dental implant using regression machine learning

algorithms
Belhassen Lachhel , Mondher Wali , Fakhreddine Dammak

SS _ Renewable energies

Chair: **Pr. Mohamed Bouaziz & Pr. Wissem Zghal**
(Room 2)

1. **ICME-2023-006:** Assessment the suitability of the land for solar energy farms in Iraq using GIS techniques
   Wedyan Nassif, Yaseen Al-timimi , Dalila Elhmaidi
2. **ICME-2023-009:** Study and Analysis of Wind Power System using The Modeling Language SysML
   Naziha Labiadh, Imen Amdouni, Lilia El amraoui
3. **ICME-2023-031:** 4E analysis of a solar combined power generation and multi-cooling system using R601a
   Rania Hammemi, Mouna Elakhdar, Ezzedine Nehdi
4. **ICME-2023-059:** MATLAB based modeling to study the performance of bifacial solar PV system under various operating conditions
   Hassen Ayed Chraiga, Othmani jedd, Zaher Khantouch
5. **ICME-2023-101:** Hydrodynamic behavior of a wind turbine
   Mohamed Kaffel, Mounir Baccar
6. **ICME-2023-103:** Influence of drawing volume on the performance of an integrated storage solar water heater
   Hichem Bendjebbas, Ahmed Mezidi, Mohamed Abbas, Ahmed Djebli
7. **ICME-2023-112:** Chaotic Artificial Bee Colony Algorithm For Optimal Allocation Of PVDG System In The Distribution Network
   Imene Khenissi , Raida Sellami, Tawfik Guesmi, Rafik Neji

SS _ Mechanical characterization / Materials technologies

Chair: **Pr. Hamdi Hentati & Pr. Sarhan Karray**
(Room 3)

1. **ICME-2023-026:** Simulation of PLA Biocomposite Reinforced with kenaf Fibers as a Sustainable Alternative to Aluminum for Car Body Manufacturing
   Samir Zidi, Imed Miraoui
2. **ICME-2023-035:** Barium doped zinc oxide thin films prepared by SILAR technique for photocatalytic degradation of methylene blue dye
   Hadjer Barkat, Elhachmi Geuttaf temam, Hachemi Ben temam, Nour Elhouda Mokrani, Mohammed Althamthami, Abderrahmane Sahraoui
3. **ICME-2023-036:** Photocatalytic Performance of Sr-coupled ZnO Thin Films Prepared by the SILAR Method
   Nourelhouda Mokrani, Elhachmi Guettaf temam, Hachemi Ben temam, Hadjer Barkat
4. **ICME-2023-052:** Simulation of Thermal characterization of bio-composite materials reinforced with coconut fibers
   Samir Benaniba, Karima Sidhoum, Mokhtar Djendel, Oussama Kessal, Ahmed Abderraouf Belkadi, Rabah Boubaaya, Meriem Dridi, Taher Tayebi, Zied Driss
5. **ICME-2023-056:** Effect of single oxide fluxes on morphology and mechanical properties of ATIG on Duplex 2205 austenitic-ferritic stainless-steel welds
   Abdejlil Chihaoui Hedhbi, Kamel Touileb, Jamel Chakhari
6. **ICME-2023-110:** Application of additively manufactured carbon reinforced polymers in the energy industry: structural performance assessment
   Boutheina Ben fraj, Manel Dhouioui, Hamdi Hentati
7. **ICME-2023-114:** Effects of water and acidic environments on Charpy fracture energy of aged high-density polyethylene arc-shaped specimens
   Kamel Chaoui, Khaoula Berkas, Sabrina Mammeri, Abir Guenouche

DINNER TIME

19H00

Chair: Pr. Amir Kessentini & Pr. Mohamed Ali Jemni
(Room 1)

Keynote 3

08H30-09H00

The Faculty of Sciences of Sfax: a pillar of training and a model for scientific research. Laboratory for Environmental Sciences and Durable Development (LASED): an example of a multidisciplinary research Structure

Laboratoire des Sciences de l'Environnement et Développement Durable (LASED), Faculty of Sciences of Sfax (FSS), University of Sfax, Road Soukra km 3.5, 3038 Sfax, Tunisia

Speaker: Pr. Mabrouk Chaabane **Tunisia**

Keynote 4

09H00-09H30

Leveraging Artificial Intelligence for Quality Enhancement in Educational Data Mining

King Khalid University, Abha, Saudi Arabia

Speaker: Pr. Yessine Hadj kacem **Saudi Arabia**

Keynote 5

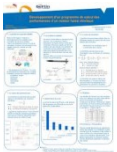
09H30-10H00

Artificial Intelligence and Machine Learning: The Power of Multidisciplinary Collaboration in Engineering

Faculty of Economics and Management Sciences of Sfax, Tunisia

Speaker: Pr. Rahma Boujelben **Tunisia**

COFFEE BREAK & POSTER SESSION



10H00-10H30

ORAL SESSION N° 2

10H30-12H30

SS _ Advanced Mechanical & Materials technologies

Chair: Pr. Hédi Kchaou & Pr. EL Hassan Boudaia
(Room 1)

1. **ICME-2023-032:** Bending behavior of smart FGM shell structures considering porous effects using a piezo-solid shell element
   Hana Mellouli, Safieddine Kalleli, Hanen Mallek, Fakhreddine Dammak
2. **ICME-2023-033:** An improved solid-shell model for dynamic analysis of smart shell composites reinforced with agglomerated Carbone nanotubes
   Hanen Mallek, Rim Louhichi, Hana Mellouli, Mondher Wali, Fakhreddine Dammak
3. **ICME-2023-057:** Verification of the values of the eigen frequencies by the modal superposition method
   Salah Guenfoud, Hemza Gherdaoui, Abdelouahab Rezaiguia, Siarhei Bosakov, Debra F. Laefer
4. **ICME-2023-126:** Synthesis and study of the dielectric and electrochemical energy storage properties of Cellulose/Graphene Oxide nanocomposites
   Jihen Khadhraoui, Mohamed Faouzi Nsib
5. **ICME-2023-095:** Experimental study of accelerated thermal aging of silicone rubber based on electrical characterization
   El Hadi Belhiteche, Sebastien Rondot, Kaissa Hamouimeche, Philippe Dony, Mustapha Moudoud, Omar Jbara
6. **ICME-2023-137:** The impact of incorporating vortex generators on aerodynamic performance
   Hassene Djemel, Wiem Jedidi, Sirine Chtourou, Mounir Baccar

SS _ Sustainable environment / Fluid and structure investigation

Chair: Pr. Mabrouk Chaabane & Taoufik Kamoun
(Room 2)

1. **ICME-2023-049:** Factorial experimental design for optimization of Chrome ion adsorption removal using a crude biomass.
   Imane Lakehal, Hadjer Ouriache, Karima Seffah
2. **ICME-2023-051:** Treatment of petroleum hydrocarbon contaminated soil by biological oxidation and Fenton-like as post treatment
   Hadjer Ouriache, Imane Lakehal, Karima Seffah, Imane Moumed, Jazia Arrar, Abdelkader Namane
3. **ICME-2023-119:** More efficient Wells turbine blades design inspired by natural aspect
   Ali Barraj, Ali Dammak, Mohamed Ali Jemni, Mariem Ammar, Mohamed Salah Abid
4. **ICME-2023-007:** Impact of additive lubricant oils on the presence of solid pollution contamination in the hydrodynamic journal bearings : non-linear dynamic analysis
   Boucherit Hamid, Lahmar Mustapha
5. **ICME-2023-046:** Design and CFD Analysis of Single-Bell C-D Nozzle
   L. Dai, N. Boughazi, A. Haddad
6. **ICME-2023-098:** Investigation of the Minimum Fluidization Velocity of Alumina Particles
   Sobhi Frikha

SS _ Computational fluid & structure dynamics / Heat and mass transfer

Chair: Pr. Mohamed Kaffel & Pr. Mariem Ammar
(Room 3)

1. **ICME-2023-093:** Simulation of the Effect of Chemical Kinetic Model in Hypersonic ionized flow around blunt body
   Rachid Allouche, Rachid Renane
2. **ICME-2023-096:** Numerical investigation of convective flow characteristics in a partially heated channel using an hybrid nanofluid
   Ghodbane Nadhir, Azeddine Soudani, Imene Rahmoune
3. **ICME-2023-086:** Impact of magnetic field on a magnetic nanofluid flow and on heat transmission in a curved minichannel
   Imene Rahmoune, Saadi Bougoul
4. **ICME-2023-029:** Simulation of a cavitation pocket in a turbulent flow
   Hatem Kanfoudi, Ridha Zgolli
5. **ICME-2023-118:** Tools development for performance evaluating of a water desalination system using renewable energies
   Wissem Zghal, Narjess Bel haj salah

LUNCH TIME

12H30-14H00

Chair : Pr. Rachid Renane & Pr. Sarhan Karray
(Room 1)

Keynote 6

14H00-14H30

Study of mechanical properties and crystallographic texture in industrial metals using an advanced characterization technique -EBSD

Laboratoire LGEM,U.Biskra Faculté de Technologie, Université Batna2, Algeria

Speaker: Pr. Zidani Mosbah **Algeria**

Keynote 7

14H30-15H00

EDM Process Characterization via Experimental Parametric Analysis

Higher Institute of Technological Studies of Sfax, Tunisia

Speaker: Pr. Taoufik Kamoun **Tunisia**

Social visit

15H00-18H30

DINNER
19H00

Chair: Pr. Aref Maalej & Pr. Mosbah Zidani
(Room 1)

Keynote 8

08H30-09H00

Effects of Hydrogen addition on premixed combustion of Methane in aircraft engine combustion chamber

Laboratory of aeronautics sciences, Institute of aeronautics and space studies, University of Blida1, B.P. 270, Road of Soomaa, Blida, Algeria

Speaker: Pr. Rachid Renane **Algeria**

Keynote 9

09H00-09H30

Mechanical Optimization Tools

Higher School of Technology, Department of Mechanical Engineering, University Hassan II Eljadida Road, KM 7, BP: 8012, Oasis, 20100 Casablanca, Morocco

Speaker: Pr. El Hassan Boudaia **Morocco**

Keynote 10

09H30-10H00

Synthesis of expanded clay nanocomposites with cellulose nanofibers as a new material for thermal energy storage in buildings

Laboratoire d'Energie et de Matériaux, Ecole Supérieure des Sciences et de la Technologie de Hammam Sousse, Université de Sousse-Tunisie

Speaker: Pr. Fadhel Aloulou **Tunisia**

ORAL SESSION N° 3

10H00-11H30

SS _ Heat transfer

Chair: Pr. Mosbah Zidani & Pr. Hamdi Hentati
(Room 1)

1. **ICME-2023-016:** Intensification of heat exchange by using a ferro-fluid under the effect of a magnetic field
   Laila Boutas, Mbarek Marzougui, Jamil Zinoubi, Soufiene Gannouni
2. **ICME-2023-017:** Magnetohydrodynamic (MHD) Mixed Convection in Square Cavity using Al2O3-Water Nanofluid with Porous Medium
   Mohamed Amine Medebber, Kacem Ould said, Noureddine Retiel, Abderrahmane Aissa
3. **ICME-2023-018:** Rayleigh number effect on natural convection in a nanofluid-filled enclosure heated from below
   Benameur Bouamoud, Samir Houat
4. **ICME-2023-072:** Numerical study of natural convection in semi circular porous cavity filled with nanofluid
   Belkacem Ould said, Mohamed Amine Medebber, Noureddine Retiel, Abderrahmane Aissa
5. **ICME-2023-097:** MRT-LBM finite difference model for double diffusive mixed convection in a driven cavity in presence of Soret and Dufour effects
   Bouthayna Mhamdi, Soufiene Bettaibi, Moez Chafra

SS _ Material and industrial Innovations

Chair: Pr Mondher Wali & Pr. Mariem Ammar
(Room 2)

1. **ICME-2023-062:** Enhancing Measurement Precision through Automated Gauge R&R Analysis with Python: A Practical Approach
   Amine Aboutaib, Hanaa Ouaomar, Younes Ouaomar
2. **ICME-2023-053:** An effective coupled phase field method for modeling brittle fracture in CNT/Epoxy nanocomposites
   Imen Messaoudi, Hana Mellouli, Hanen Mallek, Mondher Wali, Fakhreddine Dammak
3. **ICME-2023-060:** Effect of Adding Stone Particles on the Surface roughness and Hardness Properties of 3D Printed PLA
   Fouzi Alhader, Amir Kessentini, Ibrahim Emhemed, Abdulati Elnaid, Abraheem Hadeeyah, Hana Jamhour, Neila Masmoudi, Mondher Wali
4. **ICME-2023-090:** Coconut Oil Cement Panels for the Building's Thermal Insulation in Interaction with the Solar Heating System
   Yosr Laatiri, Habib Sammouda, Fadhel Aloulou
5. **ICME-2023-025:** First principles study of sructural and thermodynamic properties of Perovskite-type oxides
   Yassine Chaouche, Ahd Louafi

SS _ Sustainable Environment / Mechanical Characterization

Chair: Pr. Sobhi Frikha & Pr. Hassen Djmal
(Room 3)

1. **ICME-2023-115:** Biodiesel production from waste cooking oil and its application in diesel engine
   Soumaya Bouguerra neji, Mariem Harrebi , Mouhamed Bouaziz
2. **ICME-2023-083:** Determination of fracture toughness in plastic pipe based on essential work of fracture and energy partitioning approaches
   Nacira Hamlaoui, Latifa Alimi, Wahid Boukharouba, Kamel Chaoui
3. **ICME-2023-105:** Investigation of the free vibrational behavior of carbon nanotube-reinforced composite beams
   Amira Khaldi, Sabiha Tekili, Youcef Khadri
4. **ICME-2023-124:** Failure analysis of laminated composites materials carbon/epoxy using piezoelectric PZT smart pastilles and finite element models
   Brahim Necib, Abdelaziz Lebied
5. **ICME-2023-117:** Numerical aerodynamics study of an Archimedes screw OWC air turbine
   Mohamed Ali Jemni, Mohamed Salah Abid

COFFEE BREAK

11H30-12H00

CLOSURE CEREMONY

12H00-12H30

Poster Session

(This session is taking place on **Wednesday & Thursday / December 20 & 21, 2023** with the coffee break)

1. **ICME2023-001 :** Numerical simulations of the rotor-blade performance for a small-scale horizontal axis wind turbine
   Sarhan Karray, Wissem Zghal, Mohamed Salah Abid
2. **ICME2023-002 :** Modeling of dusty Plasma sheath in the presences of non-Maxwellian energetic electrons
   Djamila Benlemdjaldi, Abdelatif Tahraoui, Naima Fouial
3. **ICME2023-005 :** Behaviour Characterization Of Welded Joints By Friction Stir Welding (FSW) For Polymer Materials
   Ould Chikh El bahri , Meddah Hadj miloud , Khellafi Habib , Zaim Abdelnour , Bouha Djilali
4. **ICME2023-008 :** Three-dimensional analytical study of dental implants made of composite materials and titanium under the influence of three-dimensional forces
   Hassen Merzouk , Samir Habibi , Ben Ali Boutabout, Amar Abboub
5. **ICME2023-010 :** Critical Strain for Dynamic Recristallization during constant strain rate hot deformation of X70 steel
   Zidelmel Sami, Allaoui Omar, Mansouri Tahar
6. **ICME2023-011 :** Coating a half-sphere (head of an artificial joint): an OAD modelization
   Khaoula Rahmouni , Aurélien Besnard , Corinne Nouveau , Mourad Zaabat , Grégory Abadias, Kafia Oulmi, Bruno Guelorget
7. **ICME2023-012 :** Predicted properties structural, electronic and elastic, optical of ternary Cu2MoS4 from density functional theory
   Nebeg Oum keltoum , Bouchenafa Mohamede , Benmakhlouf Abde el nour
8. **ICME2023-013 :** Evaluation of Microstructural and Mechanical Characteristics of Spot Welds on AISI 430 ferritic stainless steel sheets
   Maazouz Morad , Allaoui Omar, Zidelmel Sami , Belhocine Abdelghani
9. **ICME2023-014 :** An Attempt To Apply The Response Surface Method To Analyze The Stability Of A Backfill Reinforced By Vertical Rigid Inclusions
   Messaouda Boutahir born benche , Assia Aidoud , Salima Boukour , Naoual Handel , Lazhar Belabed
10. **ICME2023-015 :** Effect of Different Calcium Precursors on Behavior of Calcium Phosphates Powder
    Majda Mokhtari , Aicha Ziouche
11. **ICME2023-021 :** Theoretical investigation of ternary semiconductors half-Heusler RhNbGe for thermoelectric applications
    Zoubir Aziz , Mohammed Amine Boudjeltia , Mohammed Abderrahim Bennani
12. **ICME2023-022 :** Characterization of the carburizing layers deposited on XC 38 steel
    Mokhtar Djendel , Rabah Boubaaya , Karima Sidhoum , Samir Benaniba, Omar Allaoui , Sami Zidelmel, Oussama Kessal
13. **ICME2023-023 :** Analysis of thermal energy storage composed of Cu nano-additves and phase transition material with a focus on each of the four surfaces of stepped wings
    Abdeldjalil Belazreg , Aissa Abderrahmane, Mohammeda Sahnoun , Zied Driss , Mohamed Salah Abid
14. **ICME2023-024 :** Enhanced Understanding of Corrosion Performance in Lean Duplex Stainless Steel Exposed to Aging Treatment and Mechanical Stress.
    Aicha Ziouche , Madjda Mokhtari , Ahmed Haddad , Hammouda Amirouche , Nacer Boucherou , R. Ghis , Nabila Zoubiri
15. **ICME2023-027 :** Hygrothermal Aging Analysis of Stress in Polymer Matrix Composite Laminates
    Billel Boukert , Mohamed Khodjet kesba , Amina Benkhedda , Adda Bedia el abbes
16. **ICME2023-028** : Stress distribution on the cracked metal/ceramic plate with non-linear thermal and moisture concentration
    Mohamed Khodjet kesba , Billel Boukert , Nourddine El meiche , Amina Benkhedda
17. **ICME2023-034 :** Simulation and constrained optimization of an auto-thermal industrial ammonia synthesis reactor using particle swarm optimization (PSO)
    Abdelkrim Merzougui , Tarek Djoudi
18. **ICME2023-037 :** Experimental study for the mechanical characterization of a new sandwich-structured bio-composite based on date palm tree waste.
    Tarek Djoudi , Hocine Djemai , Mabrouk Hecini , Abdelkrim Merzougui

19. **ICME2023-038** : Mechanical and Thermal Performances of new Bio-composite Gypsum Reinforced with date palm tree waste
Abderrahmane Sahraoui , Tarek Djoudi , Mabrouk Hecini , Zakaria Lakhal
20. **ICME2023-040 :** Reliability and resistance to damage of different types of natural fibers of a unidirectional composite material
Sidi Mohamed Amine Khiat , Ramdane Zenasni , Hadjar Bennacer , Djanet Khiat
21. **ICME2023-041 :** A novel LiBr-H2O Absorption Cooling System Incorporating a Turbo-Compressor
Haithem Sahli , Mouna Elakhdar , Ezzedine Nehdi , Lakdar Kairouani
22. **ICME2023-043 :** Raman spectroscopic characterization of amorphous silicon a-Si thin films deposited on silicon substrate
Amirouche Hammouda , Nacer Boucherou , Aicha Ziouche, Hayet Boudjellal, Faiza Boukazouha, Smain Mebrek
23. **ICME2023-044 :** Magneto-electronic properties and half metallic stability of quaternary heusler
Hayat Hocine , Friha Khelfaoui , Fatiha Saadaoui , Kadda Amara
24. **ICME2023-047 :** Evaluation of damage in glass/epoxy composite tube laminate
Abdelhamid Ghouaoula, Abdelhakim Maizia , Gania Habbar , Abdelkader Hocine
25. **ICME2023-048 :** Characterization of boride layers deposited on XC38 steel
Rabah Boubaaya, Mokhtar Djendel , Karima Sidhoum , Samir Benaniba , Omar Allaoui, Sami Zidelmel , Oussama Kessal
26. **ICME2023-054 :** Assessment of the durability of mortar containing treated granulated rubber
Chiraz Kechkar , Fatima Zohra Benamara , Ghania Nigri , Houria Hebhoub , Yacine Cherait, Mouloud Belachia
27. **ICME2023-055 :** Effect of shear cutting parameters on sheared surface geometry
Alia Khanfir, Lotfi Ben said , Mondher Wali
28. **ICME2023-058 :** The influence of the incorporation of recycled rubber aggregates on the behavior of self-compacting concrete
Nacera Khaldi , Meriem Dorbani, Assia Aidoud , Messaouda Bencheikh , Leila Kherraf
29. **ICME2023-061 :** Numerical modeling of mass transfer from a charged fluid to bentonite particules through a tubular membrane
Lazghad Fahima , Beicha Abdellah
30. **ICME2023-066 :** Numerical And Experimental Study Of A Darrieus Wind Turbine
Dorra Ghodhbani, Ahmed Ayadi, Mabrouk Mesbahi , Costansa Arico, Tullio Tuciarelli , Zied Driss
31. **ICME2023-073 :** Study of the energy and acoustic efficiency of a biosourced material for use in construction/Etude de l'efficacité énergétique et acoustique d'un matériau biosourcé pour usage dans le bâtiment
Abdeldjalil Djouama, Abderrezak Merabet, Rassim Belakroum , Mahfoud Kadja, Chadi Maalouf , Mohammed Lachi
32. **ICME2023-074 :** Design and analysis of the performance of a cooling system for an agricultural greenhouse
Djemoui Lalmi, Kamel Bouaraour, Abdelouahab Benseddik , Hocine Bensaha , Ahmed Badji
33. **ICME2023-075** : Properties of Nickel-Silica/Carbon nanocomposite for non-enzymatic glucose sensing
Nabil Ben mansour, Fayçal Sayari , Mokhtar Hjiri , Geovanni Neri , Lassaad El mir
34. **ICME2023-080 :** Calorimetric evaluation of Algerian natural gas
Hanine Hafani, Nafissa Khennafi-benghalem, Amira Diafat
35. **ICME2023-081 :** Density Functional Theoretical Computational Studies on Chromene Derivative
Najet Aouled dlala, Houcine Ghalla
36. **ICME2023-082 :** Flexibility Optimization for Wind Turbine Wing Structures Using Curved Cell Wall Honeycombs
Amine Harkati , El-Hadi Harkati , Abderrezak Bezazi , Fabrizio Scarpa , Rachida Malaoui
37. **ICME2023-084 :** Investigating the Efficacy of MIG Welding for Joining Dissimilar Metals: A Case Study of Stainless Steel 304 and Stainless Steel 316
Ayman Khaled , Rabah Boubaaya, Mokhtar Djendel , Karima Sidhoum , Samir Benaniba , Sami Zidelmel , Omar Allaoui
38. **ICME2023-087 :** Comparing Laser Welding with Inert Gas protected and Open Atmosphere for Dissimilar Stainless Steel
Ayman Khaled , Mokhtar Djendel, Rabah Boubaaya, Karima Sidhoum , Samir Brnaniba , Sami Zidelmel , Omar Allaoui

39. **ICME2023-088 :** Mixed Convection Effect of a Hybrid Nanofluid in a Lid Driven Cavity with a Heated Obstacle
Kamel Bouaraour, Djemoui Lalmi
40. **ICME2023-089 :** Fuzzy Fractional-Order PID Controller based on Immune Feedback Mechanism
Badreddine Boudjehem , Adel Makhbouche , Mohamed Ilyas Rahal
41. **ICME2023-091 :** Improvement of friction and wear behaviour of WC-Co implanted by nitrogen ion
Ahmed Belbah, Ouarda Kirati
42. **ICME2023-094 :** Mechanical Characterization of Machined HDPE Filament
Khaoula Berkas, Kamel Chaoui
43. **ICME2023-099 :** Removal of Nickel (II) from Aqueous Solutions by Biosorption on activated carbon prepared from orange peels: Kinetics, Equilibrium and Thermodynamics
Ghania Henini, Ykhlef Laidani , Salah Hanini
44. **ICME2023-104 :** Evaluation of the biosorption kinetics and thermodynamics for the removal of Textile dye from aqueous solutions using calcined Nut shell
Ykhlef Laidani, Ghania Henini , Salah Hanini
45. **ICME2023-106 :** Nonlinear vibration control of sandwich structures
Abdelhak Benaoum , Hadj Youzera , Ahmed Drai , Hachemi Neddir
46. **ICME2023-107 :** New tendency on the In-House Green anti-Corrosion Inhibitor for industrial applications
Mouna Amara , Hadjer Didouh Didouh , Azedine Belalia , Mohammed hadj melian, Rami Suleiman , Guy Pluvinage
47. **ICME2023-108 :** Modeling of fouling resistance in cross flow heat exchanger using intelligent paradigms
Rania Jradi, Christophe Marvillet , Mohamed Razak Jeday
48. **ICME2023-109 :** CFD modeling of fouling on heat transfer surfaces
Rania Jradi, Christophe Marvillet , Mohamed Razak Jeday
49. **ICME2023-111 :** CFD modeling of the effects of the OWC front wall inclination
Mariem Ammar, Mohamed Ali Jemni , Mohamed Salah Abid
50. **ICME2023-113 :** Hydrodynamic Simulation Of The Influence Of The Partition Wall In A Flocculation-Settling Mono-Bloc By Fluent
Nassima Lekouaghet, Lakhdar Bouragbi , Yahia Hammar
51. **ICME2023-120 :** Study of the mechanical properties and durability of a composite material reinforced with cellulosic fibers
Samir Benaniba , Karima sidhoum, Oussama Kessal , Mokhtar Djendel , Rabah Boubaaya , Meriem Dridi, Ahmed Abderraouf Belkadi, Zied Driss , Taher Tayebi
52. **ICME2023-129 :** Optimization of machining parameters when turning PA66-GF30% using CoCoSo method
Sabrina Haoues, Mohamed Athmane Yallese, Alper Uysal
53. **ICME2023-131 :** Effect of material tools and cutting conditions on surface roughness during the turning of Ti-6Al-4V alloy: statistical analysis and modeling
Khaoula Abbed, Nabil Kribes , Mohamed Athman Yallese , Smail Boutabba , Younes Belbellaa
54. **ICME2023-134 :** A New Arctangent Model for Magnetic Hysteresis Modeling of Terfenol-D
Meziane Hamel , Ahmed Nait ouslimane , Ratiba Fellag
55. **ICME2023-138:** The photo-catalytic process under artificial light: development and characterization of new hetero-system
Mohamed Amine Djilali, Mounir Mellal , Elhadj Mekatel , Salim Boudiaf
56. **ICME2023-139:** Elimination of (rhodamine B) photocatalytically under visible light with CaFe2O4
Salim Boudiaf, Nourddine Nasrallah , Mounir Mellal , Mohamed Amine Djilali
57. **ICME2023-140:** An improved Photocatalytic Reduction of Ni2+ through a novel CoMn2O4/TiO2 Heterostructure
Mohamed Mehdi Kaci, Noureddine Nasrallah , Imane Akkari

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Oral session 3
Coffee break
Closing Ceremony / Attestation Distribution

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