

# Agenda

# First Day, Tuesday, December 10<sup>th</sup>

08:00 am - 09:30 am	Registration		
Opening			
	09:30 am - 10:30 am		
09:30 am - 09:45 am	Opening of the International Conference		
	Pr. Mohamed Tahar HALILETE	Rector of Kasdi Merbah University	
09:45 am - 10:00 am	A word of the Dean of Faculty of Applied S	Science	
	Pr. AbdElouahed KRIKER	Kasdi Merbah University	
10:00 am - 10:15 am	A word of the Mechanical Department He	ad	
	Dr. Djamila DAMENE	Kasdi Merbah University	
10:15 am - 10:30 am	A word of the Conference's Chairman		
	Dr. Imad KEMERCHOU	Kasdi Merbah University	
10:30 am - 11:00 am	Coffee Break		
1 <sup>st</sup> Plenary Session			

### 11:00 am - 01:00 pm

11:00 am - 11:30 am Thermal Regulation and Thermal Energy Storage

by Phase Change Materials

Pr. Muslum ARICI Kocaeli University, Turkey

Page 1 of 14 | Sponsors:



















11:30 am - 12:00 noon	Adsorption, Kinetic, and Thermodynamic Investigations of Neem Fruit (Azadirachta Indica) Activated with H3PO4 for Adsorption of Hexavalent Chromium		
	Pr. Imad HAMADNEH		University of Jordan
12:00 noon - 12:30 pm	n Study and Development of Hydroponic Greenhouse Systems		e Systems
	Pr. Driss ZIED	National School of Enginee	ers of Sfax (ENIS), Tunisia
12:30 pm - 01:00 pm	Biofuel Production from Mic and Renewable Energy	roalgae as sustainable	
	Pr. Mostafa Mohamed EL-SHEEK	Н	Tanta University, Egypt

01:00 pm - 03:00 pm Lunch and Break

### 1<sup>st</sup> Oral Session

03:00 pm - 05:00 pm

### Room A

# **Water Management & Energy Systems**

Session Chairs: Pr. Belkhir NEGROU and Pr. Driss ZIED, assisted by: Dr. Abderrahman GOUAREH and Dr. Abderrahmane KHECHEKHOUCHE

assisted by. Dir.	ADUCTION IN GOOD AND THE PROPERTY OF	Abderrammane Kriechekhoochie	
03:00 pm - 03:15 pm	ANN and WANN waves-based artificial neural network models with K-means clustering for modelling Daily suspended sediment load		
WEEME'24-102-Or	Abdelouahab LEFKIR	TPiTE Lab., ENSTP	
03:15 pm - 03:30 pm	Performance investigation of in irrigation in desert climate	novative system designed for cereal	
WEEME'24-405-Or	Boubekeur DOKKAR	University of Kasdi Merbah Ouargla	
03:30 pm - 03:45 pm	Optimization and Modelling of Adsorption by Treated Activated		
WEEME'24-103-Or	Abdelkader GUEMGAM University Amar Telidji of Laghouat		
03:45 pm - 04:00 pm	Obtaining a hybrid electrode based on imidazonium ion- terminated and metallic nano-clusters for battery electrode use		
WEEME'24-413-Or	Mourad MECHOUET LPG	CM lab., Université Mouloud Mammeri de Tizi Ouzou	
04:00 pm - 04:15 pm	Spatial evaluation of hydrochen intrusion in coastal aquifer of Se	nical facies and influence of seawater ebaou Valley, Eastern Algeria	
WEEME'24-112-Or	Sabrina AGROUCHE	Department of Geology, UMMTO	
04:15 pm - 04:30 pm	Empirical modelling of thin layer Influence of transparent cover in	r drying kinetics of mint leaves: materials of greenhouse-type solar dryer	
WEEME'24-414-Or	Chihabeddine NETTARI	LENREZA lab., Kasdi Merbah University, Ouargla	
04:30 pm - 04:45 pm	Review of dew point evaporative	e system	
WEEME'24-113-Or	Zoheir DERGHOUT	University of Kasdi Merbah, Ouargla	

Page 2 of 14 | Sponsors:





















04:45 pm - 05:00 pm Enhancement of Power Supply Reliability Based on Diversifying Energy

Sources, A Multi-Objective Study in Algerian Oil and Gas Sector

WEEME'24-415-Or Abdennour BENCHEIKH University of Batna 2

#### Room B

# **Mechanics and Emerging Technologies & Materials Engineering**

Session Chairs: Dr. Mohammed Salah BENNOUNA and Pr. Muslum ARICI, assisted by: Pr. Djamel MENNOUCHE, Pr. Arief MAALEJ and Dr. Nabil KEBAILI

03:00 pm - 03:15 pm Optimizing Queue Management with Al-Driven Wait Time Predictions in

**Postal Services** 

WEEME'24-201-Or Fairouz Rayane BENNAI FNTIC, Ouargla university

03:15 pm - 03:30 pm A comparison between the piezoelectric effect of sandstones

and their thin films

**WEEME'24-306-Or Noura MEBROUKI** *LRPPS lab., University of Kasdi Merbah, Ouargla* 

03:30 pm - 03:45 pm Modeling of the Behavior of Thermo-Mass Transfers during

Successive Treatments by Hot Water Dipping and Hot Steaming

of Deglet-Nour Dry Dates

WEEME'24-204-Or Mohamed Hafed BERREBEUH University of Kasdi Merbah, Ouargla

03:45 pm - 04:00 pm Hybrid beads synthesis for amoxicillin-controlled release

WEEME'24-309-Or Karima BAGHDAD University of Science and Technology of Oran - Mohamed Boudiaf

04:00 pm - 04:15 pm Study, Design, and Manufacturing of a Burnishing Tool

WEEME'24-336-Or Mourad ABDELKRIM LAMES lab., University of Kasdi Merbah, Ouargla

04:15 pm - 04:30 pm Energy Efficiency and Sustainable Cooling: A Parametric Study

of Lithium Bromide Absorption Refrigeration Systems.

WEEME'24-316-Or Khadra ALIOUAT LMASE lab., Université Kasdi Merbah, Ouargla

04:30 pm - 04:45 pm An Efficient Method for Estimating the Fractal Dimension of Color

Images of Discharges on a Polluted Insulator Model

WEEME'24-318-Or Imene FERRAH Lecturers-researchers

### 1<sup>st</sup> Poster Session & Coffee Break

### 05:00 pm - 05:30 pm

05:00 pm - 05:30 pm Presentations and questions answering

### **Room A**

# **Water Management & Energy Systems**

Session Chairs: Dr. Djilali MESSAOUDI and Dr. Youssef REHOUMA, assisted by: Dr. Elhocine CHIBA and Dr. Abdelkader BOUKAROURA

Water quality of the groundwater aquifer: case city El Oued.

**WEEME'24-108-Ps Azzeddine MANSOUR** *University of Mohamed Cherif Messaadia, Souk-Ahras* 

Page **3** of **14** | **Sponsors**:









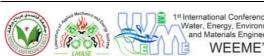








1 <sup>st</sup> International Conference of	i water, Energy, Environ	iment and Materials	Engineering	icweeme2024.sciencesconf.org
		•	mical Formula	tion: Application
	in Enhanced Oil	Recovery		
WEEME'24-109-Ps	Celia MECHOUEK			., Université Kasdi Merbah, Ouargla
	Green synthesis in waste water t		from date se	eds and its application
WEEME'24-104-Ps	Abir DJEDDA			Université Kasdi Merbah Ouargla
	Analysis of wate	r quality for ag	ricultural use	in the Adrar region
WEEME'24-105-Ps	Alia Sara LAKHDAR	RI .		Université Kasdi Merbah Ouargla
	The Origin of gro (Algerian Sahara		eralization in	the Adrar region
WEEME'24-106-Ps	Alia Sara LAKHDAR	RI		Université Kasdi Merbah Ouargla
	_		•	e Change and Strategic er Quality Assessment
WEEME'24-107-Ps	Aymen ATBI		Tal	nri Mohammed University of Bechar
	sludge morpholo			logical reactors influences ng process
WEEME'24-110-Ps	Imene KADRI		LIPE lab., Univer	sité Salah Boubnider Constantine 3.
		mium Biosorp		ethrough Curves for calyptus Chips in a
WEEME'24-111-Ps	Ali ALOUACHE		LNCSM la	b., Ecole Normale Supérieure Kouba
	Enhancing Solar Supply: A Case S		•	ugh Intermittent Water
WEEME'24-114-Ps	Zineb KORICHI		Ec	cole Normale Supérieure de Ouargla
	Adsorption Stud australis	y of Methylen	e Blue Dye On	leaves of Phragmites
WEEME'24-116-Ps	Othmane MEZZAR			University of Laghouat
	• •	•		tivity. and Molecular ol-Nanoparticles
WEEME'24-117-Ps	Mahbouba HAMM	OUDI	VPRS lak	b., Kasdi Merbah Ouargla University
	Assessment of the the southeastern	• •	•	uality in Miocene springs of
WEEME'24-118-Ps	Azouz BOUDERBAL	.A		University Kasdi Merbah of Ouargla
	Impact of climat Fekan (NW Alge		land occupat	ion. The case of Wadi
WEEME'24-120-Ps	Abdelkader OUIKH	LEF	Water and Soil R	esources lab., University of Tlemcen
		•	•	heavy metals (Mercury and friendly bioadsorbent
WEEME'24-121-Ps	Mohammed Cherif	TERKHI		LESV, University of Mostaganem.
	Page <b>4</b> of <b>14</b>	Sponsors:		
, shechini.				















	Calculation of irrigation dose using climatic data available to the farmer		
WEEME'24-122-Ps	Sofiane GHERIANI	National Institue of Agronomic Reseach of Algelia	
	Contributing to the elimination the palm trees of Ouargla (so	on of inorganic pollutants using waste from outhern Algeria)	
WEEME'24-123-Ps	Zineb BENSACI	University of Ouargla	
	Treatment of injection water	in Oil Field Mohamed	
WEEME'24-125-Ps	Ali ARBAOUI	University of Ouargla	
	Study of the adsorption mech zeolitic imidazolate framewo	nanism of hexavalent chromium onto rk-11	
WEEME'24-126-Ps	Rachid LAMARI	URMPE Research Unit, Boumerdes University	
	Enhancing Wastewater Micro Filtration as a Point-of-Use Tr	obiological Quality through Bio-Sand reatment Solution	
WEEME'24-127-Ps	Mohamed Laid HADJADJ	VPSR Laboratory, University of Kasdi Merbeh, Ouargla	
	Experimental study a brackis trough collector	h water desalination unit using a parabolic	
WEEME'24-128-Ps	Mokhtar LATI	Process Engineering Laboratory, University of Ouargla	
	Numerical study of laminar fl nanofluid in a uniformly heat	ow by force convection of a hybrid ed horizontal cylinder	
WEEME'24-409-Ps	Mohammed BENKHEDDA	M'hamed Bougara Boumerdes University	
	Treating winery wastewater using a new absorbent PLBC		
WEEME'24-130-Ps	Mebarka KADDOURI	University of Biskra	
		ential of Algeria's rare earth bearing ne learning for industrial growth and green	
WEEME'24-401-Ps	Tahar Belkacem NASREDDINE	LRSPGA lab., Université Kasdi Merbah Ouargla	
	Performance Analysis of Hyb in a Forced Convection Enviro	rid Heat Sinks with Various Configurations onment	
WEEME'24-402-Ps	Noureddine MENECEUR	UDERZA Unit, University of El Oued	
	_	lynamic Performance Parameters and .,1,2-Tetrafluoroethane/Hydrocarbons hinery	
WEEME'24-403-Ps	Youcef MAALEM	National Polytechnic School of Constantine (ENPC)	

**Room B** 

# **Mechanics and Emerging Technologies & Materials Engineering**

Session Chairs: Dr. Rabie KAREK and Dr. El Hadj ACHORI, assisted by: Dr. Abdelhafid GHERFI and Dr. Soufiane HALIMI

Study of the durability of Fiber-reinforced lime mortars

WEEME'24-322-Ps Saad CHAIB Amar Telidji University, Laghouat

Page **5** of **14** | **Sponsors**:

















1 <sup>st</sup> International Conference of	on Water, Energy, Environment and Material	ls Engineering <u>icweeme2024.sciencesconf.org</u>
		spatial derivatives distribution functions asma (OCP) through screened G. Kelbg
WEEME'24-209-Ps	Salima GUERRICHA	University Kasdi Merbah Ouarglo
	Numerical study of Ternary He Cylinders	ybrid Nanofluid Flow in Concentric
WEEME'24-202-Ps	Mohamed KEZZAR	LMGE lab., 20 Aout 1955 University of Skikdo
		ects on MHD nanofluid flow over a ing Sheet with velocity slip and thermal
WEEME'24-203-Ps	Sihem GHERIEB	20 Aout 1955 University of Skikdo
WEERE 24 204 D-	Photocatalytic Application	ties of NiO Thin Films with Carbon Dots for
WEEME'24-301-Ps	Boudjemaa BOUAOUINA	M'hamed Bougara University of Boumerde.
	Weibull Statistic of the Mecha humilis Palm Fibers for Eco-Fr	anical Performances of Chamaerops riendly Green Composites
WEEME'24-302-Ps	Soumia ATOUI	Université de Skikdo
	Biosynthesis, characterization of their antimicrobial activity	n of Copper nanoparticles and evaluation
WEEME'24-303-Ps	Hadjer BOUT	Université Amar Telidji-Laghou
	Removal of some organic poll method	lutants using photocatalytic degradation
WEEME'24-304-Ps	Maroua OUEZZANI	University Kasdi Merbah Ouarglo
	First principles study of the St properties of intermetallic co	tructural, Electronic and mechanical mpounds
WEEME'24-305-Ps	Djalel MEBARKI	École Nationale Polytechnique d'Oran Maurice Audi
	Thermal properties of plaster	filled with date palm rachis
WEEME'24-307-Ps	Brahim BENAMARA	Laboratory EVRNZA University of Ouarglo
	Effect of Adding Alfa Plant Po Properties of Fired Earth Brick	wder on Thermal and Mechanical ks
WEEME'24-308-Ps	Youcef BALI	Laboratory EVRNZA University of Ouarglo
	•	TiO2/Al2O3 One-Dimensional Photonic ragg Reflectors in the Visible and Infrared
WEEME'24-312-Ps	Ahlam AOUACHIR	LENREZA lab., University Kasdi Merbah Ouarglo
	properties	erature on indium oxide thin films
WEEME'24-311-Ps	Anouar YAHIA	Université Mohamed Kheide

Page 6 of 14 | Sponsors:

















1st International Conference of	n Water, Energy, Environment and Materials E	ngineering	icweeme2024.sciencesconf.org
	Characterization of Antioxidant Activity and Release Kinetics of Essential Oil Encapsulated in Sodium Alginate and Gelatin		
WEEME'24-310-Ps	Aicha DEHANE		University of Bejaia
	Fractional Modeling of Dopant I p-n Junctions in Photovoltaic Ce		
WEEME'24-313-Ps	Nesserine TARTAR	Echahid Cheikh Lai	rbi Tebessi University - Tebessa
	Contribution to The Modeling o Concrete in Hot Weather	f The Short-Term	Behavior of Cured
WEEME'24-314-Ps	Kamel REBAI	FIMAS lab., Tahri l	Mohammed University, Bechar
	Assessment of The Impact of Pr Pipeline Conducted Analytically		es in a Damaged
WEEME'24-315-Ps	Ghizlene Rahma RENNOU	Laborato	ry of Mechanics and Energetics
	Photocatalytic Degradation of N Solution	1ethylene Blue D	ye From Aqueous
WEEME'24-317-Ps	Imane DAOUI		Kasdi Merbah University
	La1-xSrxFe0.7Ni0.3O3, new mat	erial for energy a	applications
WEEME'24-319-Ps	Manel MELOULI	Unive	ersity of Kasdi Merbah Ouargla
	Factors Influencing the Fracture Reinforcements in Date Palm Fi	_	oplastic Starch
WEEME'24-321-Ps	Rabie KAREK	LMASE lab., Unive	rsity of Kasdi Merbah, Ouargla
	Preparation and characterizatio	n of NiO nanopa	rticles
WEEME'24-325-Ps	Hichame CHEKIMA		University of Biskra

# Second Day, Wednesday, December 11th

### 2<sup>nd</sup> Plenary Session

08:00 am - 09:00 am

### Room A

# **Water Management & Energy Systems**

The Climate is Changing, Flash Floods Intensify, What to do? 08:00 am - 08:30 am

> Pr. Boualem REMINI University of Blida 1, Algeria

08:30 am - 09:00 am Three Strange Things in Solar Still

> Dr. Abderrahmane KHECHEKHOUCHE EL-oued University, Algeria

### **Room B**

# **Mechanics and Emerging Technologies & Materials Engineering**

08:00 am - 08:30 am Industrial Metals: Advanced Study and Characterization

> Pr. Mosbah ZIDANI Batna 2 University, Algeria

Page **7** of **14** | **Sponsors**:

















# 2<sup>nd</sup> Oral Session

09:00 am - 10:30 am

#### Room A

# **Water Management & Energy Systems**

Session Chairs: Pr. Noureddine CHERRAD and Pr. Mostafa Mohamed EL-SHEEKH, assisted by: Dr. Mohammed Laid MECHRI and Dr. Mohamed Abdelbasset MAHBOUB

09:00 am - 09:15 am	Altering bentonite through acid treatment: The use of Rhodamine B in
	water purification

water purification

WEEME'24-115-Or **Halima GALLOUZE** University of Sciences and Technology Houari Boumediene

09:15 am - 09:30 am Enhancing Energy Efficiency through Solar Absorption Cooling: A

Numerical Analysis of key Performance Factors

WEEME'24-418-Or **Khadra ALIOUAT** LMASE lab., Université Kasdi Merbah, Ouargla

09:30 am - 09:45 am Assessment of BOD Kinetic Parameters Using Graphical and

Mathematical Methods in Wastewater

**Souhail NESRI** WEEME'24-119-Or University of Mohamed Khaider, Biskra

09:45 am - 10:00 am Improved Energy Optimization in Hybrid Microgrids with

MATLAB/Simulink-Controlled PV, Fuel Cells, and Batteries

**Chakib GUEBLI** WEEME'24-419-Or Kasdi Merbah University, Ouargla

10:00 am - 10:15 am Preparation and validation of metallic electrodes used in electrolysis of

water

WEEME'24-124-Or **Abdelkader SAILA** 

University of Djelfa

10:15 am - 10:30 am Comparative Performance and Power Generation of 100 kWp Fixed

Photovoltaic Sub-fields in Ghardaïa City

Abderraouf BOURAMDANE WEEME'24-439-Or University of Ouargla

#### **Room B**

# **Mechanics and Emerging Technologies & Materials Engineering**

Session Chairs: Dr. Moussa GUEBAILIA and Pr. Sabih ZIDANI, assisted by: Dr. Toufik AMEUR and Pr. Imad HAMADNEH

09:00 am - 09:15 am Impact of Cutting Parameters on Surface Quality in Face Milling of

X2CrNi18-9 Stainless Steel: Insights from Response Surface

Methodology and Genetic Algorithms

**Hadjira LOT** WEEME'24-320-Or **BLIDA1** University

09:15 am - 09:30 am Perovskite Solar Cells: The Way in the Future of Efficient and Accostable

Solar Energy Title

**Elhocine CHIBA** WEEME'24-323-Or University of Ouargla

Page 8 of 14 | Sponsors:





















09:30 am - 09:45 am Carbon nanotubes characterization and their potential for increased

hydrocarbon production

WEEME'24-328-Or Mustapha MILOUDI FHERSTU-UKM Ouargla

analysis

WEEME'24-331-Or Abderrahmane ABBASSI University of Kasdi Merbah, Ouargla

### 2<sup>nd</sup> Poster Session & Coffee Break

#### 10:30 am - 11:00 am

10:30 am - 11:00 pm Presentations and questions answering

### Room A

# **Water Management & Energy Systems**

Session Chairs: Dr. Mohamed Mabrouk DRID and Dr. Moukhtar LATI, assisted by: Dr. Abdeldjabbar MESSAOUDI, Dr. Slimane HACINI and

0.00.000	by. Dir Abaciajabbar MESSAGGDI, Dir s	
WEENE 24 404 De	Design and Sizing of a Solar Pumping sy	_
WEEME'24-404-Ps	Nabil OUAZAA	cole Nationale Polytechnique Constantine
	An Experimental Study of Hydrogen Pro System in The Ouargla Region, Algeria.	duction Through a Photovoltaic
WEEME'24-406-Ps	Madjeda RAMDANI	University of Kasdi Merbah Ouargla.
	Speed Control of a Permanent Magnet	Synchronous Wind Turbine
WEEME'24-407-Ps	Mohammed Tahar LATRECHE	University of Batna 2
	An Artificial Neural Network-Based Pred Connected Inverter	dictive Control Model for Grid-
WEEME'24-408-Ps	Lamine MEDEKHEL	LMSE lab., University of Biskra
	Wastewater Treatment and Sustainable Areas	Use of Water Resources in Arid
WEEME'24-129-Ps	AbdEllatif RAHMANI	University of Kasdi Merbah Ouargla
	Stopping power calculation of 12C, 16O Polycarbonate targets for the energy ra	•
WEEME'24-410-Ps	Sihem FOUL	LTPRMI lab., University of Blida1
	Stopping power calculation of 1H, 7Li io targets for the energy range from 1,1 to	,
WEEME'24-411-Ps	Sihem FOUL	LTPRMI lab., University of Blida1
	Feasibility Study of Solar Drying of Clay	Bricks
WEEME'24-412-Ps	Messaoud SANDALI	Uneversity of Kasdi Merbah, Ouargla
	Comparative study of EAHE system in d	ifferent regions of Algeria
WEEME'24-416-Ps	Abbes ATTIA	University of Kasdi Merbah Ouargla

Page 9 of 14 | Sponsors:

















1st International Conference	on Water, Energy, Environment and Materials Engineering	icweeme2024.sciencesconf.org
	Neutronic simulation of the small modula Open MC code	r reactor CAREM-25 using
WEEME'24-417-Ps	Karima ZICHE	Farhat Abbas University, Setif1
	Electrochemical Behaviour of Modified El 1-Yl Methyl) Benzoic Acid]-Nickel	ectrode: GCE/Poly [4 -(Pyrrol-
WEEME'24-420-Ps	Faiza NESSARK	EM lab., Université Ferhat Abbas Sétif 1
	Optimal Integration of PV/DSTATCOM Sys Distribution Networks	stems in Reconfigured
WEEME'24-421-Ps	Fares SADAOUI	University of Kasdi Merbah Ouargla
	Techno-Economic Optimization of Integra Generation into Distribution Networks Co Load, Climatic Conditions, and Energy Price	onsidering Hourly Variations in
WEEME'24-422-Ps	Fares SADAOUI	University of Kasdi Merbah Ouargla
	Numerical Investigation of Eccentricity efficiency Convection in a Gap between Two Cylindon	
WEEME'24-423-Ps	Oussama BENHIZIA	University of Kasdi Merbah Ouargla
	Optimization of energy storage in a solar	water heater
WEEME'24-424-Ps	Djamila DAMENE	Kasdi Merbah University – Ouargla
	Effect of fins number on the thermal perf collector	ormance of a parabolic trough
WEEME'24-428-Ps	Adel LAARABA	University of BATNA 1
	Optimal working pairs for adsorption coo	ling application
WEEME'24-430-Ps	Nassima BAKHALED	University kasdi Merbah Ouargla
	Green hydrogen production potential for solar energy	M'sila province in Algeria with
WEEME'24-432-Ps	Youssef REHOUMA	LEVRES lab., University of El Oued
	Design and Cost Evaluation of Photovolta World Results in Algeria	ic Systems Based on Real-
WEEME'24-433-Ps	Anouar Bella BACI	Ferhat Abbas University 1 Setif
	Optimal Renewable Distributed Generato Network with Various Load Models	rs Allocation in Distribution
WEEME'24-434-Ps	Abdelkader BOUKAROURA	University of Kasdi Merbah
	Numerical Investigation of Very Low Reyr Personalized Ventilation	nolds Octagonal Jet for
WEEME'24-435-Ps	Hacene KADI University of Mohamed B	El-Bachir El-Ibrahimi, El-Anasser, Algeria
	Optimization of photovoltaic PV using a n renewable energy	ew control strategy for
WEEME'24-436-Ps	Abdelkrim KHIREDDINE	University of Bejaia

Page **10** of **14** Sponsors:



















1 International Conference on	water, Energy, Environment and Materials Engineering	icweemezoz4.sciencescom.org
	Modeling of a PV system with different MPPT ted MATLAB/Simulink and Implementation in Arduine InC Algorithm	. •
WEEME'24-437-Ps	Djaafar TOUMI	University of El Oued
	Power Quality Enhancement of Grid Connected B Induction Generator Using Robust Fuzzy Logic Alg	•
WEEME'24-438-Ps	Mohamed Abdelbasset MAHBOUB	University of Ouargla
	Modeling and simulation of five-phase Permanen Generator Used in Wind Energy Conversion Syste wind turbine	• ,
WEEME'24-440-Ps	Mohamed Abdessalam NESSIL	University of Ouargla
	Advanced Hydrogeological Modeling of the Mioc Malabiod Region, N.E. Algeria Using VISUAL MOD for Sustainable Water Management	•
WEEME'24-101-Ps	Rayene Sirine RAMDANI	Tebessa University

### **Room B**

# **Mechanics and Emerging Technologies & Materials Engineering**

Session Chairs: Dr. Zoheir DERGHOUT and Dr. Youssef TOUGUI, assisted by: Dr. Mehdi KHALFI, and Dr. Messaoud SANDALI

Calculation of radial distribution functions in hydrogen plasma using

	modified G. Kelbg potential	Trydrogen plasma asmg
WEEME'24-206-Ps	Salima GUERRICHA	University Kasdi Merbah Ouargla
	The ionic electric microfield distribution function plasma (OCP) governed by screened G. Kelbg	
WEEME'24-207-Ps	Salima GUERRICHA	University Kasdi Merbah Ouargla
	Thermal Buckling analysis of Functionally gra	ded material beams
WEEME'24-326-Ps	Abdelhamid BENZID	LGEM lab., University of Biskra
	A Review study on Physico-Mechanical Prope Lime Mortar Based on Recycled Materials	erties and Durability of
WEEME'24-327-Ps	Halima BENCHIOUKH	LSRM lab., Amar Telidji University
	Study the fluctuation at the W2A' station usi	ng OLGA simulator
WEEME'24-329-Ps	Mohamed Ali ARBAOUI	University of Ouargla
	Impact of Cutting Parameters on Surface Qua X2CrNi18-9 Stainless Steel: Insights from Res Methodology and Genetic Algorithms	,

Page **11** of **14** | **Sponsors**:





WEEME'24-330-Ps



**Hadjira LOT** 















**BLIDA1** University

	Dielectric behavior of PLLA films du effect of vacuum annealing	uring dynamic crystallization and	
WEEME'24-332-Ps	Noureddine MAKRANI LPM lab., Universit	ty of Sciences and Technologies (USTHB), Algiers	
	Efficacy of Ag-Zeolites as a Fungicid	le: A New Approach	
WEEME'24-333-Ps	Imen BENCHIKH	Université de Laghouat	
	Influence of HDPE on the Stiffness I on Dune Sand	Modulus of Asphalt Concrete Based	
WEEME'24-334-Ps	Abdelhamid BENZID	LGEM lab., University of Biskra	
	The Effect of Zinc Doping Levels on Pyrolysis Using a Solar Concentrato		
WEEME'24-335-Ps	Abderrezak GHARBI	University of Ouargla	
	Temperature Monitoring in Machir	ning Using Infrared Technology	
WEEME'24-337-Ps	Mourad ABDELKRIM	MASE lab., University of Kasdi Merbah, Ouargla	
	Impact of Nanosilica on the Diffusion Matrices	on of Phenolic Antioxidants in LDPE	
WEEME'24-338-Ps	Abdelhai AOUAITIA Organic Mater	rials Laboratory, Abderrahmane Mira University	
	Optimization of Burnishing Parame Finish Quality	ters for Enhanced Machined Surface	
WEEME'24-341-Ps	Abderrahim BELLOUFI	MASE lab., University of Kasdi Merbah, Ouargla	
	Morphology Properties of Fe2o3, Dope Aluminum (AL) Thin Films Deposited by Spry Pyrolysis		
WEEME'24-343-Ps	Aboubaker CHIBANI	University of Boumerdes	
	First principles study of Structural, Stability, and Elastic properties of Lanthanum dihydride system		
WEEME'24-344-Ps	Wafa CHAIB	LENREZA lab., University Kasdi Merbah Ouargla	
	Correlation Between Vickers Hardn Steels for Pipeline Applications	ness and Strength Indices in HSLA	
WEEME'24-345-Ps	Ali LAHOUEL	University of Annaba	
		ethods Using NaOH on Mechanical A Comparative Study of 2%, 6%, and s	
WEEME'24-347-Ps	Mohamed Amine KACEM	LMASE lab., Kasdi Merbah University, Ouargla	
	Impact of Activated Carbon on the Refrigeration Cycle with Methanol	Performance of an Adsorption	
WEEME'24-348-Ps	Imad KEMERCHOU	Kasdi Merbah University	
	Investigating the Influence of Activated Carbon Adsorption Capacity on water-Based Adsorption Refrigeration Cycles		
WEEME'24-349-Ps	Hichem HENNA	Kasdi Merbah University, Ouargla	

Page 12 of 14 | Sponsors:

















University of Kasdi Merbah, Ouargla

1st International Conference of	n Water, Energy, Environment and Materials En	ugineering	icweeme2024.sciencesconf.org
1 International Conference of	Elastic anisotropy and mechanical stability of ScAuGe: First principles		
	investigation	al Stability of Sch	Adde. First principles
WEEME'24-350-Ps	Larbi MESSADI		University of Tiaret
	The Production of Ecological Gas Environmental Requirements at Hassi Messaoud Algeria)		•
WEEME'24-351-Ps	Bilal BENABIDI	Ка	sdi Merbah University, Ouargla
	Influence of Production Paramet Properties: A Study of Regression Optimization	•	
WEEME'24-352-Ps	Abderrahim BELLOUFI	LMASE lab., Unive	ersity of Kasdi Merbah, Ouargla
	An Investigation into the Influence Nanofluids on Laminar Flow Ford Facing Step	•	•
WEEME'24-353-Ps	Zohra Souad BENGUERRAICHE		University of Mila
	The Electric Microfield and its Spatial Derivatives Distribution Functions Through G. Kelbg Potential: an Application on Lyman- $\alpha$ Spectral Line		

3<sup>rd</sup> Oral Session

11:00 am - 12:30 pm

#### Room A

# **Water Management & Energy Systems**

Session Chairs: Pr. Boubakeur DOKKAR and Pr. Boualem REMINI, assisted by: Pr. Arief MAALEJ, Pr. Ahmed DJAFOUR and Dr. Lakhdar LOUAZENE

11:00 am - 11:15 am	A GIS-Driven Multi-Criteria Decision-Making Framework for Wind
	Energy Site Selection in Algeria

WEEME'24-425-Or	Djilali MESSAOUDI	University of Kasdi Merbah Ouargla
11:15 am - 11:30 am	Impact of bypass diodes on Mismatch Induc Panels.	ced Partial Shading in Solar
WEEME'24-426-Or	Laid GUERRIDA	University of Ziane Achour in Dielfa

11:30 am - 11:45 am Measuring and Predicting the Ground Temperature at Different Depths in Saharan Algeria Region: Application to Underground Buildings

WEEME'24-427-Or **Belkhir HEBBAL** LENREZA lab., University of Ouargla

11:45 am - 12:00noonTechno-economic analysis of standalone microgrid photovoltaic-wind hybrid system with battery storage: case study in N'goussa, Ouargla.

WEEME'24-429-Or **Mhamed DERNOUNI** LENREZA lab., University of Ouargla

Page **13** of **14** | Sponsors:



WEEME'24-208-Ps





Shape of plasma Li<sup>+2</sup>

Sara KOBBI















12:00noon - 12:15 pm An improved metaheuristic algorithm for parameter extraction of triple-

diode photovoltaic cells model

WEEME'24-431-Or **Belkacem AOUFI** University of Ouargla, Algeria

### Room B

# Mechanics and Emerging Technologies & Materials Engineering

Session Chairs: Pr. Rassim BEAKROUM and Pr. Mustapha BOUAKBA, assisted by: Dr. Imane REZGUI and Dr. Nadia SAIFI

11:00 am - 11:15 am Numerical study of forced convection in a channel using a nanofluid

WEEME'24-205-Or **Adel HAMOUCHE** École Nationale Polytechnique de Constantine

11:15 am - 11:30 am Predicting Material Properties from Dynamic Displacement Responses

**Using Numerical Modeling** 

WEEME'24-339-Or **Moussa GUEBAILIA** LAMES lab., University of Kasdi Merbah, Ouargla

11:30 am - 11:45 am Optimizing CuGaSe2 Absorber Layers for Enhanced Efficiency in

Perovskite Solar Cells: A SCAPS-1D Simulation Study

Nourelhouda MEKHAZNIA WEEME'24-340-Or Echahid Cheikh Larbi Tebessi University, Tebessa

11:45 am - 12:00noon Advanced Predictive Modeling for Optimizing Electrical Discharge

Machining (EDM) Parameters

WEEME'24-342-Or **Abderrahim BELLOUFI** LAMES lab., University of Kasdi Merbah, Ouargla

12:00noon - 12:15 pm Estimation of thermophysical properties of a solid plate using inverse

heat conduction problem

Younes BOULAADJOUL WEEME'24-346-Or Technology Institute, University of Ouargla

# Closing



Page **14** of **14** | **Sponsors**:















