International Conference on Engineering Sciences for a Sustainable Environment

جامعة مولود معمري تيزي وزو
ⵜⴰⵙⴷⴰⵡⵜ ⵎⵓⵍⵓⴷ ⵎⵄⵎⵔⵉ ⴰⵜ ⵜⵉⵣⵉ ⵡⵣⵓ
Université Mouloud Mammeri de Tizi-Ouzou

Conference program



Venue

The Faculty of Building Engineering

Mouloud MAMMERI University of Tizi-Ouzou-Algeria

International Conference on Engineering Sciences for a Sustainable Environment

October 29-30, 2025, at Mouloud MAMMERI University of Tizi-Ouzou Algeria-2025

International Conference on Engineering Sciences for a Sustainable Environment - ICESSE'25
October 29-30 – 2025

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Conference program

Wednesday, 29 October 2025	Amphi B3	07:35	08:35	*Technical Support & Information*		
		Moderator: Prof.HAMMOUM Hocine				
		08:35	09:50	*Conference open : Prof. TAOUCHE-KHELOUI Fatma*		
		09:50	09:05	*Conference Introduction By Prof. ZOUAOUI Salah*		
				Welcome greeting from the academic authorities - Prof Emeritus . BOUDA Ahmed		
		09:05	09:20	*Mrs. AKEZOUH Salima - Tizi-Ouzou and Mouloud Mammeri University: A Hub of Knowledge in the Heart of Kabylia*		
		First plenary conference		**Pr. Emeritus. BOUAFIA Y. (Chairman)** ● Pr. BOUTOUDJ S. ● Pr.BILEK A.		
		09:20	09:55	**Keynote Speaker 01 Pr.NGUYEN VIET THANH**	**University of Transport and Communications, Hanoi, Vietnam**	**Title: Green shipping-a brighther futur: from the wold to vietnam**
		09:55	10:30	**Keynote Speaker 01 Pr.VADI Mohammed**	**Istanbul Sabahattin Zaim University (IZU), Istanbul, Turkey.**	**Title: Smart and Efficient Integration of Renewable Energy in Power Systems Based on AI**
	Library room	**10:30**	**10:55**	**Break – I (Coffee) + Poster session 1**		**Pr. DAHMANI L. (Chairman)** ● Dr. BOUDJEMIA A. ●Dr. ADJRAD ● Dr.SMAHI R. ● Dr. GHOUILEM K. ● Dr.BOUAMRA Y.
	Conference room 01	**First oral session - Civil Engineering - Structures**				**Pr.AIT TAHAR K. (Chairman)** ● Pr. KAHIL A. ● Pr. HADJI L.● Pr. AIT ATMANE H.
		Time		**ID**	**Author**	**Title**
		11:30	**11:45**	ICESSE2025-GC-STR-011	ABBACHE ALI	The Nonlinear Response Of Functionally Graded Beams Using A Higher-Order Shear Deformation Theories In Post-Bucklin
		11:45	**12:00**	ICESSE2025-GC-STR-024	BENGRAB REDA	Bending of Simply Supported FGM Porous Nano-Plates via HSDT: Under Combined Loading
		12:00	**12:15**	ICESSE2025-GC-STR-026	MRAIN SOHEIR	Effect of Crack Characteristics on Natural Frequencies of Euler-Bernoulli Beams
		12:15	**12:30**	ICESSE2025-GC-STR-008	FRIH AHMED	Stability Analysis of FGM Sandwich Nanoscale Plates in Hygro-Thermal Environment Using a New Four Variables Refined Plate Theory
	Library room	**12:30**	**14:00**	**Break - II (Lunch)**		
	Conference room 01	**Second oral session - Civil Engineering - Structures**				**Pr. KACHI M. (Chairman)** ● Dr. LOUZAI A.● Pr. AIT AMAR MEZIANE M.
		Time		**ID**	**Author**	**Title**
		14:00	**14:15**	ICESSE2025-SP-01	MOUKAH FAROUK	Ecoquartier en Algérie entre ambition enviromrentale et réalité entrepreneuriale
		14:15	**14:30**	ICESSE2025-GC-STR-016	ZAHIA ABDELLI	Seismic Damage Assessment of a Concrete Gravity Dam Considering Dam–Foundation Contact Using Nonlinear Pushover Analysis
		14:30	**14:45**	ICESSE2025-GC-STR-028	MOULOUD OUANANI	Numerical Investigation of Soil-Structure Interaction Effects on the Seismic Performance of Box Girder Bridges
		14:45	**15:00**	ICESSE2025-GC-STR-012	GUERINEMOHAMMED HOUSSEM EDDINE	Dynamic Behavior of Simply Supported CNT-Reinforced Plates
		15:00	**15:15**	ICESSE2025-GC-STR-004	OUDNI NASSERDINE	Prédiction of effective elastic properties of a RVE (Representative Volume Element) using Homogenization technique
		15:15	**15:30**	ICESSE2025-GC-STR-036	NGUYEN VIET THANH	Dolphin Structures Health Monitoring a Case Study in Hai Phong, Vietnam
	Library room	**15:30**	**16:00**	**Break – II (Coffee) + Poster session 2**		**Dr. BOUDLAL O. (Chairman)** ● Dr. ATLAOUI D. ● Dr. ALICHE A. ● Dr. BOUZEBOUDJA A ● Dr. .AIT BACHIR
	Conference room 01	**Third oral session Civil Engineering - Structures**				**Pr. HADJ MELIANI M. (Chairman)** ● Dr. BENYAHI K. ● Dr. IDDIR A.
		Time		**ID**	**Author**	**Title**
		0.6667	0.6771	ICESSE2025-SP-01	CHALAL KHALED	Le Béton Cellulaire Léger pour Chapes: Stratégie d'Allègement Structurel et Optimisation Thermique
		0.6771	0.6875	ICESSE2025-GC-STR-002	LOUZAI AMAR	Pushover-Based Evaluation of RC Frames with Infill Masonry under Seismic Loads
		0.6875	0.6979	ICESSE2025-GC-STR-019	HAMIZI MOHAND	Stratégie de réhabilitation des structures de Génie Civil
		0.6979	0.7083	ICESSE2025-GC-STR-022	SMAHI REBIHA	Principle of Homogenization Applied to Reinforced Concrete Structures

Conference program

Wednesday, 29 October 2025	Conference room 02	**First oral session - Civil Engineering - Materials**				**Pr. AIT AIDER H. (Chairman)** ● Pr. LEKLOU N. ● Dr. AIT TALEB S.
		Time		**ID**	**Author**	**Title**
		11:30	**11:45**	ICESSE2025-GC-MAT-012	GUETTATFI LAMIA	Effect of Various Stabilizers on Water Absorption Resistance of Earth Concrete Using Soil from Ksar Moughel
		11:45	**12:00**	ICESSE2025-GC-MAT-004	BOUZIANE ABDERREZAK	Use of Recycled Ceramic Waste as Partial Sand Replacement in Self-Compacting Concrete: Mechanical Performance and ANN Prediction
		12:00	**12:15**	ICESSE2025-GC-MAT-009	MEZIANI MERIEM	Elaboration et caractérisation d'un plâtre éco-modifié à forte teneur en déchet plastique
		12:15	**12:30**	ICESSE2025-GC-MAT-003	MAAMERI NOR EL-HOUDA	Propriétés mécaniques des bétons autoplaçants à base de déchets de béton et ajouts minéraux
	Library room	**12:30**	**14:00**	**Break**		
	Conference room 02	**First oral session - Civil Engineering - Environment**				**Pr. DAOUI A. (Chairman)** ● Dr. ALI AHMED CH. ● Dr. AKMOUSSI O.
		Time		**ID**	**Author**	**Title**
		14:00	**14:15**	ICESSE2025-GC-STR-032	MOHAMED SEGHIR JABALLAH	Hybrid Structural Vibration Control: Digital PID Compared to Digital LQR
		14:15	**14:30**	ICESSE2025-EE-CE-002	KHOUIDER ZAKIA	Decision support Tool for Financial Management of Sanitation Services in Algeria
		14:30	**14:45**	ICESSE2025-EE-CE-007	LABDANI ABIR	Child-Centered Strategies for Urban Heat Island Mitigation: A Literature Review on Sustainable Design for Thermal Comfort
		14:45	**15:00**	ICESSE2025-EE-CE-011	BOULEMAREDJ ALI	INSUL software use for predictive assessment of acoustic insulation in partition walls against airborne noise: Towards improved building acoustics in Algeria
		15:00	**15:15**	ICESSE2025-EE-CE-001	SAOUDI CHAHINAZ	Towards Circular and Economical WWTPs in Algeria: a model for optimising operational performance
		15:15	**15:30**	ICESSE2025-EE-CE-004	ZOULIKHA AIT LHADJ	Eléments vers une reconciliation avec l'environnement. Habiter est notre condition
	Library room	**15:30**	**16:00**	**Break – II (Coffee) + Poster session 2**		**Dr. BOUDLAL O. (Chairman)** ● Dr. ATLAOUI D. ● Dr. ALICHE A. ● Dr. BOUZEBOUDJA A ● Dr. .AIT BACHIR
	Conference room 02	**Second oral session - Civil Engineering - Materials**				**Pr. GHERNOUTI Y. (Chairman)** ● Dr. KHELIL N. ● Dr. BOUZEBOUDJA F.
		Time		**ID**	**Author**	**Title**
		16:00	**16:15**	ICESSE2025-GC-MAT-034	ADEL MANI	Elaboration et caractérisation physico-mécanique d'un mortier destiné à la réparation et au renforcement des éléments structuraux en béton
		16:15	**16:30**	ICESSE2025-GC-MAT-008	ANFAL DJAMED	Study of the Splitting Tensile Bond Strength of Repair Mortars Based on Dune and Limestone Sands
		16:30	**16:45**	ICESSE2025-GC-MAT-014	MERNIZ MOHAMED	Impact de la Combinaison de Fillers à Base de Déchets Industriels sur les Propriétés Physico-Mécaniques du Béton à Base de Sable Désertique
		16:45	**17:00**	ICESSE2025-GC-MAT-029	SALIHA RABEHI	Flexible piezoelectric sensors: towards intelligent, autonomous buildings

Conference program

Wednesday, 29 October 2025	Conference room 03	**First oral session - Energy Efficiency**				**Pr. BOUSSAFEUR K. (Chairman)** ● Pr. NEBBALI R. ● Pr. MAKHLOUF S.
		Time		**ID**	**Author**	**Title**
		11:30	**11:45**	ICESSE2025-EE-008	HAFIDHA MAOUEL	Influence de la Surface du Capteur solaire sur les Performances d'une Installation de froid Solaire
		11:45	**12:00**	ICESSE2025-EE-019	BOUTAGHANE MEHENI	Effects of radiation on instability in thermal stagnation point flow
		12:00	**12:15**	ICESSE2025-EE-016	CHAHRAZED MEBARKI	Assessing the Influence of Building Shape and Compactness on Energy Efficiency Using EnergyPlus and BIM Workflow
		12:15	**12:30**	ICESSE2025-EE-015	AZZOUG AMER	Les systémes de gestion téchnique informatisée comme levier de l'efficacite énergetique dans l'espace residentiel en Algerie
	Library room	**12:30**	**14:00**	**Break**		
	Conference room 03	**Second oral session - Energy Efficiency**				**Dr. FERROUK M. (Chairman)** ● Dr. HAMZAOUI M.
		Time		**ID**	**Author**	**Title**
		14:00	**14:15**	ICESSE2025-EE-021	BENCHALLAL RAFIK	Lubrication Analysis of Axisymmetric Squeeze Flow in Couple-Stress Fluids under Constant Squeeze Velocity
		14:15	**14:30**	ICESSE2025-EE-023	SAMIR MAMACHE	Thermosolutal instability in rotating disc flow
		14:30	**14:45**	ICESSE2025-EE-022	FAIZA BRAHIMI	Valorisation Energétique des Gaz d'Echappement des Turbines à Gaz : Vers une Amélioration de l'Efficacité et une Réduction des Emissions de CO_2
		14:45	**15:00**	ICESSE2025-EE-025	RADHIA DOUMANE	Simulation of the Impact of Glass Cracking and Dust Accumulation on the Performance Degradation of Photovoltaic Modules
		15:00	**15:15**	ICESSE2025-EE-036	BRAHIM FERHAT	Solid-Fluid Flow Modeling and Simulation in Falling Particles-Based Solar Thermal Central Receiver
		15:15	**15:30**	ICESSE2025-EE-012	AIT-CHEKDHIDH ZAINA	Enhanced Funnel Control Strategies for Wind Turbine Speed Regulation "FC Asymmetric with scaling
	Library room	**15:30**	**16:00**	**Break – II (Coffee) + Poster session 2**		**Dr. BOUDLAL O. (Chairman)** ● Dr. ATLAOUI D. ● Dr. ALICHE A. ● Dr. BOUZEBOUDJA A ● Dr. .AIT BACHIR
	Conference room 03	**Third oral session - Energy Efficiency**				**Pr. BOUTOUDJ M. (Chairman)** ● Dr. AMOKRANE M. ● Pr. ZOUAOUI S.
		Time		**ID**	**Author**	**Title**
		16:00	**16:15**	ICESSE2025-EE-026	SOUAD KHEDACHE	Thermal Performance of Expanded Perlite/PCM21 Composites for Enhanced Building Envelope Inertia
		16:15	**16:30**	ICESSE2025-EE-029	BOUSSAFEUR KACI	Simulation de l'effet combiné d'un jet et de la rotation d'un disque sur l'écoulement pariétal induit.
		16:30	**16:45**	ICESSE2025-EE-031	HADJER MOHAMED	Contrôle Actif par Soufflage Continu de l'Ecoulement Turbulent Autour d'un Véhicule Simplifié de Type Corps d'Ahmed
		16:45	**17:00**	ICESSE2025-EE-013	HAMZAOUI MALEK	Green refrigeration with CO2 at very low temperature by using the natural gas expansion

Conference program

Wednesday, 29 October 2025	Conference room 04	**First oral session - Mechanical Engineering - Materials**				**Pr. ZAZI N. (Chairman)** ● Dr. DJEBBALI S. ● Dr. NECHICHE M.
		Time		**ID**	**Author**	**Title**
		11:30	**11:45**	ICESSE2025-ME-020	MOHAMED SAAD	Flambement des plaques composites polymères à gradient fonctionnel renforcées par des nano plaquettes de graphène
		11:45	**12:00**	ICESSE2025-ME-028	SOUÂD MAKHFI	Experimental and Numerical Investigation of Damage Evolution in 7075 Aluminum Alloy Under Oligocyclic Fatigue
		12:00	**12:15**	ICESSE2025-ME-032	ISHAK BERKANE	Study of the effect of the singularity of the fibre orientation angle in a perforated composite plate on an aircraft wing
		12:15	**12:30**	ICESSE2025-ME-007	HASSIBA HAMADACHE	Study of the Behavior of a Polyester/Chicken Feather Fiber Composite Under Thermal Stress
	Library room	**12:30**	**14:00**	**Break**		
	Conference room 04	**Second oral session- Mechanical Engineering - Materials**				**Pr. FERHOUM R. (Chairman)** ● Pr.ASMA F. ● KACIMI B. ● Dr. MENDIL M.
		Time		**ID**	**Author**	**Title**
		14:00	**14:15**	ICESSE2025-ME-037	MOHAND AKLI AZZI	Evaluation Of a Natural Calcium Carbonate For Bone Substitution
		14:15	**14:30**	ICESSE2025-ME-022	KAHINA IGGUI	Preparation and Characterization of PHBV/Lignin Biocomposites
		14:30	**14:45**	ICESSE2025-ME-017	KHOUAS HANANE	Optimisation of the geometric parameters of a composite laminate
		14:45	**15:00**	ICESSE2025-ME-012	CHIKHAOUI IMANE	Capteur de gaz à base d'oxyde de cérium et son composite à 3 % de fibre de carbone
		15:00	**15:15**	ICESSE2025-ME-006	TAOUS DORIA ATMANI	Analyse Comparative entre Revêtements Multicouche et Monocouche: Essai de Dureté
		15:15	**15:30**	ICESSE2025-ME-001	HADJ-ALI YOUCEF	Influence of a 3% NaCl Saline Medium on the Mechanical and Structural Properties of PDMS
	Library room	**15:30**	**16:00**	**Break – II (Coffee) + Poster session 2**		**Dr. BOUDLAL O. (Chairman)** ● Dr. ATLAOUI D. ● Dr. ALICHE A. ● Dr. BOUZEBOUDJA A ● Dr. .AIT BACHIR
	Conference room 04	**First oral session - Civil Engineering - Geothecnics**				**Pr. MELBOUCI B. (Chairman)** ● Pr.BAHAR R. ● Pr. DJERBAL L.
		Time		**ID**	**Author**	**Title**
		16:00	**16:15**	ICESSE2025-GC-GEOT-016	BAZIZ KARIM	Parameters affecting the overturning resistance of geotechnical structures
		16:15	**16:30**	ICESSE2025-GC-GEOT-024	HARIZI IMANE	Évaluation de la Vulnérabilité des Chaussées Bitumineuses Au Nord de l'Algérie Sous Chargements Dynamiques Et Sismiques
		16:30	**16:45**	ICESSE2025-GC-GEOT-025	OUGUEMAT ALI	Comportement Hydromécanique D'une Argile Gonflante Compactée A Faible Teneur En Eau
		16:45	**17:00**	ICESSE2025-GC-GEOT-026	MOBAREK HOURIA	Caractérisation géotechnique d'un sol par l'étude de ses niveaux de succions

Conference program

October 29-2025	Conference room 05	**First oral session - Hydraulic Engineering**				**Pr.HAMMOUM H. (Chairman)** ● Pr. NGUYEN VIET THANH ●Pr. MIHOUBI M.-Dr. CHERIFI F.
		Time		**ID**	**Author**	**Title**
		11:30	**11:45**	ICESSE2025-HE-001	GOUFFI SAMIRA	Development of an Assessment Framework of Numerical Schemes Performance (Dam Break)
		11:45	**12:00**	ICESSE2025-HE-004	TOUAZILAMIA	Méthode de lax à pas fractionnaire pour la simulation d'un écoulement induit par la rupture d'un barrage
		12:00	**12:15**	ICESSE2025-HE-016	DJIHAD HACHANI	Machine Learning Approaches for Daily Runoff Forecasting in Semi-Arid Regions: A Case Study of Oued Boukdir, Algeria
		12:15	**12:30**	ICESSE2025-HE-008	BRAHIMI ABDELOUAHED	Évaluation expérimentale de l'influence de la rugosité sur la longueur du rouleau de surface d'un ressaut hydraulique en canal rectangulaire
	Library room	**12:30**	**14:00**	**Break**		
	Conference room 05	**Second oral session- Hydraulic Engineering**				**Pr. KHATTAOUI M. (Chairman)** ● Pr. REMINI B.● Pr. BERREKSI A. ● Dr. DEHMOUS H.
		Time		**ID**	**Author**	**Title**
		14:00	**14:15**	ICESSE2025-HE-005	MEHIRA SOUAD	Physico-chemical analysis of aluminum hydroxide sludge from a treatment plant and its use as a sorbent for the removal of Congo red dye from aqueous solutions
		14:15	**14:30**	ICESSE2025-HE-006	GHAITAOUI ESSAMA AHMED	DBD-Based Ozonated Water System for Fruit and Vegetable Washing: Performance Optimization and Quality Preservation
		14:30	**14:45**	ICESSE2025-HE-018	SEGHIRI IMED TAKI EDDINE	Typologies des bassins hydrauliques de l'aqueduc antique de tiklat
		14:45	**15:00**	ICESSE2025-HE-017	ALI BERREKSI	Calcul numérique du profil de la surface d'eau dans une transition hydraulique d'un coursier d'évacuateur de crue
		15:00	**15:15**	ICESSE2025-HE-002	IGROUFAMERIEM	Rehabilitation Planning of the Drinking Water Supply Network: Case Study of Tizi Ouzou, Algeria
		15:15	**15:30**	ICESSE2025-HE-015	FATIHA LEBDIRI	Etude numérique d'infiltrations à travers la digue des barrages en terre
	Library room	**15:30**	**16:00**	**Break – II (Coffee) + Poster session 2**		**Dr. BOUDLAL O. (Chairman)** ● Dr. ATLAOUI D. ● Dr. ALICHE A. ● Dr. BOUZEBOUDJA A ● Dr. .AIT BACHIR
	Conference room 05	**Second oral session - Mechanical Engineering - Environement**				**Pr.ABERKANE M. (Chairman)** ● Dr. BELTAGY H. ● Dr. HAMOUR M.
		Time		**ID**	**Author**	**Title**
		16:00	**16:15**	ICESSE2025-EE-ME-012	ABDELKADER MEKEMECHE	Comparative Albedo-Based Modeling of PERC+ and BiCoRE Bifacial Solar Cells
		16:15	**16:30**	ICESSE2025-EE-ME-022	HAMMOUCHE HAYAT	Exploring the variability of keratin composition for the design of sustainable acoustic insulators and humidity regulators
		16:30	**16:45**	ICESSE2025-EE-ME-010	BELMIHOUB KHELLAF	Development of a composite material: raw earth, sand and olive pomace for use in sustainable construction
		16:45	**17:00**	ICESSE2025-EE-ME-013	IDDIR BOUMRAR	Role of Privileged Angles for Wind Flow around Tall Buildings

Conference program

Thursday, 30 October 2025		**Second plenary conference**			**Pr. HAMIZI M. (Chairman)** ● Pr.TAHAKOURT A. ● Pr. CHELOUAH N.
	Amphi B3	**09:00**	**09:40**	**Keynote Speaker 03:** Pr. LEKLOU Nordine	Institut Universitaire de Technologie de Saint-Nazaire, Nantes, France.	**Title:** Vers une nouvelle ère de la construction grâce à la fabrication additive
		09:40	**09:55**	**Keynote Speaker 04:** Pr. ALLAOUI Samir	Université de Reims Champagne-Ardenne, Reims, France.	**Title :** Advanced structural textile composites forming and induced properties
	Library room	**09:55**	**10:55**	**Break – I (Coffee) +Poster session 3**		**Chairs : Pr. AMAOUZ N. (Chairman)** ● Dr. TEBBICHE H. ● Dr. HANNACHI M. ● Dr.BOUMRAR I. ● DJEBOURI H. ● Dr.MEZIANI F.
	Conference room 01	**Second oral session - Civil Engineering - Geothecnics**				**Pr. GABI S. (Chairman)** ● Dr. KHEFFACHE T. ● Dr. LOUADJ S. ● Dr. MEZIANI F.
		Time		**ID**	**Author**	**Title**
		10:55	**11:10**	ICESSE2025-GC-GEOT-011	BRARA ALI	Geotechnical isolation system to mitigate earthquake using rubber sand mixture
		11:10	**11:25**	ICESSE2025-GC-GEOT-004	DERBANE SAID	Vibration response of a horizontal soil granular layer under harmonic excitation: A Discrete Element Modeling approach
		11:25	**11:40**	ICESSE2025-GC-GEOT-010	ADJAL LEILA	Influence de la largeur de la bande renforcement et de l'angle du talus sur le renforcement superficiel d'une pente en sable
		11:40	**11:55**	ICESSE2025-GC-GEOT-001	BENABDERRAHMAN ISMAIL	Effect of soil behavior model on retaining wall deflection
		11:55	**12:10**	ICESSE2025-GC-GEOT-013	MERCHI AHMED	Influence of Column Length and Geosynthetic Reinforcement on the Bearing Behavior of Foundations on Compressible Soils
		12:10	**12:25**	ICESSE2025-GC-GEOT-023	LYLIA DEGHOUL	Simulation Of The Behavior Of The Sidi Khelifa Dam During Construction And Filling
	Conference room 02	**First oral session - Mechanical Engineering -Structures**				**Pr. OULD OUALI M. (Chairman)** ● Pr. BOURAS R. ● Dr. SLIMANI M. ● Dr. BELAID K.
		Time		**ID**	**Author**	**Title**
		10:55	**11:10**	ICESSE2025-ME-009	MEGHLAOUI BAHIA	Investigating Rheological Properties and Stability of Oil/Water Emulsions Under the Effect of Temperature and Oil Concentration
		11:10	**11:25**	ICESSE2025-ME-014	YASSINE BELHAOUI	The strain energy density factor in mode-I: The role of surface effects on crack propagation
		11:25	**11:40**	ICESSE2025-ME-010	ZEDDAM LOUKMANE	The Bacci and Bennati Problem with a Circular Crack in a Thin Elastic Medium
		11:40	**11:55**	ICESSE2025-ME-015	LEMOUSSI SOMIA	Finite element analysis of an intelligent mechanism using a piezoelectric material
		11:55	**12:10**	ICESSE2025-ME-011	GASMI KHALID	Multi-Objective Optimization of a Plastic Planetary Gear Pair Using the Marine Predators Algorithm
		12:10	**12:25**	ICESSE2025-ME-029	NAOUM HALIMA	Residual Stress Distribution Under Central Laser Peening: Comparative FEA of AA2024-T351 Full and Quarter Discs
	Conference room 01 - Moderator: Prof.HAMMOUM Hocine				**12:25 13:25**	**Closing ceremony**

Conference program

Wednesday, 29 October 2025

Library room	10:30 10:55	
Poster session 1 - Civil Engineering		**Pr. DAHMANI L. (Chairman)** ● Dr. BOUDJEMIA A. ●Dr. ADJRAD ● Dr.SMAHI R. ● Dr. GHOUILEM K. ● Dr.BOUAMRA Y.
ID	**Author**	**Title**
ICESSE2025-GC-STR-010	ALLALOU RANIA	Fire Design of Reinforced Concrete Bridge Decks According to Eurocode 2: A Case-Based Approach
ICESSE2025-GC-STR-013	ZITOUNI MOHAMED RAFIK	Individual And Combined Effect of Parameters Influencing The Base Shear of Masonry-Infilled Frames
ICESSE2025-GC-STR-035	LAZREG HADJI	Bending of Functionally Graded Polymer Composite Plates Reinforced with Graphene Nanoplatelets
ICESSE2025-GC-STR-009	MEDDOUR MOHAMMED	Bending failure mechanisms of multilayered beams-based E-glass fibers waste: Experimental and numerical investigations
ICESSE2025-GC-STR-029	ADNANE OURABAH	Impact of Design Parameters on the Confinement of Reinforced Concrete Beams
ICESSE2025-GC-STR-037	SILVIA CALÒ	Numerical exploration of inorganic-based retrofit strategies for in-plane masonry behavior
ICESSE2025-GC-STR-021	ABDELKADER SAFA	Influence of porosity on behaviour of functionally graded plates
ICESSE2025-GC-STR-003	ASLI IMEN	Analyse mécanique des contraintes d'interface d'une poutre en béton armé poreuse renforcée par matériaux composites : effet de la précontrainte
ICESSE2025-GC-GEOT-012	BAGHZIM HASSIBA	The effect of a model parameter on deformation
ICESSE2025-GC-MAT-002	AZARRIH AMINA	Optimized Retention of Chromium (III) in Cementitious Composites with Activated Biochar
ICESSE2025-GC-MAT-005	SLIMANOU HOUSSAM	Effect of Replacing Quarry Sand with Alternative Materials, Including Brick Waste Sand, on the Mechanical Properties of Cement Mortars
ICESSE2025-GC-MAT-006	DRAOUCHE KHAYRA	Influence de la Porosité et Des Conditions aux Limites sur le Comportement Dynamique des Plaques en Matériaux à Gradient Fonctionnel
ICESSE2025-GC-MAT-024	FATIHA SOUIDI	Valorization of Pegmatite from Mekla region in the Manufacturing of Fired Clay Bricks Based on Local Clay
ICESSE2025-GC-MAT-033	MEGROUS TASSADIT	Modification of the physical and thermal properties of plaster
ICESSE2025-GC-MAT-035	KARTHIKEYAN RAJENDRAN	Influence of Sand-Coated Rubber Shreds on the Mechanical Properties of Concrete Incorporating Recycled Conveyor Belt Waste
ICESSE2025-GC-MAT-013	DJELLOUL OMAR KOUIDER	Production des bétons autoplaçants écologiquement efficaces à base des granulats recyclés
ICESSE2025-GC-MAT-020	LYLIA MEZIANE	Valorisation de la poudre de marbre comme substitut partiel au sable dans la formulation d'un mortier autoplaçant
ICESSE2025-GC-MAT-036	LAMMARI MERIEM	Effect of Wood Sawdust Addition on Thermal Performance and Durability of Compressed and stabilized Earth Bricks
ICESSE2025-GC-MAT-015	KAROUCHE ABDELHAMID	Manufacturing of Decorative Elements Using Lightweight Self-Compacting Concrete
ICESSE2025-GC-MAT-007	LAFI DJAMEL EDDINE	Simplified quasi-3D modeling of buckling and bending behavior in functionally graded porous beams
ICESSE2025-HE-003	BOURAGAA KHEIRA	Impact of Aperture Distribution on Particle Transport and Deposition in Fractured Media: A Numerical Study
ICESSE2025-HE-012	HANANE AZIZA	Evaluation of Rainfall Erosivity Factor (R) Using Alternative Models: The case of Oued Isser watershed, Algeria
ICESSE2025-HE-010	MEZHOUD CHERIFA	A hybrid mcdm approach for sanitation maintenance
ICESSE2025-HE-021	SOUHILA BENKACI	Évaluation géospatiale du potentiel érosif par intégration du SPI et des dynamiques d'occupation du sol (cas du bassin versant d'Oued El Hachem)
ICESSE2025-HE-013	BOUCHRAKI FAIZA	Analyse et amelioration de la distribution de l'eau potable dans la wilaya de bejaïa, algerie
ICESSE2025-EE-CE-005	LILIA MAHIA	Vers des espaces extérieurs adaptés au vieillissement : effets croisés du climat et de l'environnement bâti
ICESSE2025-EE-CE-010	HAMADI MERYEM	The Efficiency of Stiffeners on the Performance of Thin Square Clamped Plates under Concentrated Loading
ICESSE2025-EE-CE-009	GRAÏNE HASSANE	Defense in depth concept and environmental impact study of a nuclear installation
ICESSE2025-EE-CE-013	BOUDJELLALEL MOUATEZ BILLAH	Evaluating Raw Kaolin Clay as a Partial Substitute for Portland Cement in mortar
ICESSE2025-GC-STR-027	SAMIRA SOUKANE	Diagnostic thermique du bâti colonial à Alger : apport de la thermographie infrarouge à la réhabilitation thermique

Conference program

Wednesday, 29 October 2025	Library room	15:30 16:00	
	Poster session 2 - Civil Engineering		**Dr. BOUDLAL O. (Chairman)** ● Dr. ATLAOUI D. ● Dr. ALICHE A. ● Dr. BOUZEBOUDJA A ● Dr. .AIT BACHIR
	ID	**Author**	**Title**
	ICESSE2025-GC-STR-033	LEYLA BOUZID	Impact of RPA 2024 on the seismic performance of an X-brased steel structure in Bejaia
	ICESSE2025-GC-STR-014	BOULIFA DJAFFAR	Modelling of the thermomechanical response of reinforced concrete under severe thermal loads
	ICESSE2025-GC-STR-017	FATIHA CHERIFI	Contribution des Voiles de Contreventement au Comportement Sismiques des Structures en Béton Armé
	ICESSE2025-GC-STR-020	MALIKA BELHOCINE	Comparative study of Finite Element Models of Reinforced Concrete Structural Elements
	ICESSE2025-GC-STR-023	HADJ AISSA BOUDJAMAA	Analyse non lineaire d'une section nervuree d'une passerelle pietonne en beton de haute performance
	ICESSE2025-GC-STR-025	OURIDA HELLAL SFAKSI	Behavior Factor and Ductility of Reinforced Masonry Structure in Horizontal Joints
	ICESSE2025-GC-STR-031	KAHINA HADDAD	Integrated Statistical and Computational Study of Bio-Based Multilayer GFRP Textile Beams under Bending
	ICESSE2025-GC-STR-034	AMAR ALICHE	Réservoirs métalliques face au ballottement : analyse fiabiliste.
	ICESSE2025-GC-GEOT-015	BOUDJEMIA FAZIA	Study of the behavior of the land crossed by the Draa El Mizan tunnel (Tizi-Ouzou).
	ICESSE2025-GC-GEOT-005	HADJ ABDERRAHMANE SAIDA	Plastic Waste in Asphalt: A Sustainable Solution for Moisture-Resistant Pavements
	ICESSE2025-GC-GEOT-003	IDRES SADIA	Modeling the Tizi-Ouzou landslide
	ICESSE2025-GC-GEOT-018	BELMIHOUB HACENE	Improving the mechanical properties of a clay soil by adding waste rubber : direct box shear tests
	ICESSE2025-GC-GEOT-019	DYHIA IMRAZENE	Experimental numerical and statistical study of the degradation of marls under cyclical effects.
	ICESSE2025-GC-GEOT-020	RAHMANI NAIMA	Facteurs influant sur la stabilité des pentes et estimation de leur effet
	ICESSE2025-GC-MAT-018	ALI AHMED CHAFIKA	Th e use o f an eco-friendly material based on jute natural fibers in concrete reinforcement under axial compression: Experimental study and reliability analysis
	ICESSE2025-GC-MAT-019	NADIA BOUSSAA	Study of the Durability of Compressed Earth Bricks Stabilized with Biomass Ash
	ICESSE2025-GC-MAT-025	AIT TALEB SOUAD	Thermal and physical evaluation of glass fiber textile waste based-members with hollow cores
	ICESSE2025-GC-MAT-028	MALHA SALMI	Review of the effect of matrix composition on mechanical behavior of textile reinforced concrete
	ICESSE2025-GC-MAT-031	FARIDA RAHMANI	Effet de la poudre de granite sur le comportement rhéologique des pates cimentaires
	ICESSE2025-GC-MAT-032	FARIDA AMIAR	Performance evaluation of pervious concrete containing calcined mud under elevated temperatures
	ICESSE2025-GC-MAT-039	TOUFIF DJADOJUN	Modélisation du comportement mécanique d'un mortier de ciment à base de fibres cellulosiques.
	ICESSE2025-GC-MAT-038	FATMA BOUZEBOUDJA	Eco-Efficient High-Performance Mortar Based on Dune Sand: Punching Behavior Study
	ICESSE2025-HE-014	HAMANI SOFIANE	Numerical invistigation of Free-Surface Flow in Channels with Geometric Transitions
	ICESSE2025-EE-CE-012	FERHAT SORAYA	Numerical Study of the Mechanical Behavior of Functionally Graded Beams under Bending
	ICESSE2025-EE-CE-003	AFIRI RYMA	Sustainable Material Management for Earth Dams: An Integrated Geotechnical and Environmental Approach
	ICESSE2025-EE-GEOT-021	HADADDENE NACIMA	Analysis of the liquefaction potential of an Algerian soil
	ICESSE2025-EE-GEOT-022	AMARA IDDIR	Study of the compaction behavior of shale-slag mixtures for road construction
	ICESSE2025-GC-MAT-21	ALLALA BAYA	An Advocated Numerical Model to Simulate the Constitutive Materials of Metal/Ceramic Bi-phased Beams
	ICESSE2025-GC-STR-040	LOUNACI LYNDA	Critical influence of pedestrian walkign speed on footbridje dynamic response
	ICESSE'25-GC-MAT-26	FALI SOUFYANE	Mechanical Characterization of Arundo donax-Based Bio-composites Matrix for Sustainable Construction

Conference program

Thursday, 30 October 2025	Library room	09:55 10:55	
	Poster session 3 - Mechanical Engineering		**Chairs : Pr. AMAOUZ N. (Chairman)** ● Dr. TEBBICHE H. ● Dr. HANNACHI M. ● Dr.BOUMRAR I. ● DJEBOURI H. ● Dr.MEZIANI F.
	ID	**Author**	**Title**
	ICESSE2025-GC-GEOT-009	SEDIRA RIMA	Effect of granulometry on the compressibility of granular soils (case of dry sands)
	ICESSE2025-GC-GEOT-014	KHEFFACHE TOUFIK	Effet des caractéristiques d'élasticité sur la déformabilité d'un massif de sol lors de l'excavation d'un ouvrage souterrain
	ICESSE2025-EE-CE-008	REZIG WALID	Assessing Material Properties and Reuse Viability of Industrial Sludge in a Gas Complex
	ICESSE2025-EE-001	AIT TALEB BELKACEM	Optimizing Thermal Management: Hybrid Nanofluids, MHD Control, and Integrated Heat Transfer Analysis
	ICESSE2025-EE-032	HAREK MOHAMED	Magnetic Control of Heat Transfer in Natural Convection
	ICESSE2025-EE-034	WISSEM TIGHIDET	Effect of vertical baffle in liquid sloshing tank
	ICESSE2025-EE-018	SAHI FATIHA	Numerical modeling of the heat transfer within internal combustion engine valve's
	ICESSE2025-EE-005	MESSAOUDA GUEMMADI	Numerical study under fluent software and optimization of compact finned exchangers
	ICESSE2025-EE-014	CHAOUI ASSIL	Numerical Investigation of Innovative Shell and Tube Configurations: Improving Heat Transfer and Hydraulic Performance
	ICESSE2025-EE-030	MESSAOUDENEBOUALEM	Numerical analysis of the velocity profile during transient turbulent flow
	ICESSE2025-EE-ME-020	ABDENOUR ELIAS	Olive biomass gasification-based power generation in the Tizi Ouzou region
	ICESSE2025-EE-ME-021	ABADA OMAR	Numerical simulation of the flow around bodies with different slits
	ICESSE2025-EE-ME-019	BENSEBA GHALIA	Comparison of the Properties of Mono-like, Monocrystalline, and Multicrystalline Silicon for Photovoltaic Applications
	ICESSE2025-EE-ME-023	SAMIRA OUSSIDHOUM	Surface Chemical Engineering for High-Efficiency Photovoltaic Cells: Mechanisms and Advances
	ICESSE2025-ME-004	KHERBA NESRINE	Study of the effects of rolling strain hardening on the aging of 7075 Aluminium alloy
	ICESSE2025-ME-021	MANEL BENMOHAMED	Surface Engineering of AA2024 by TSA Anodizing: Temperature-Controlled Optimization of Anodic Film Properties
	ICESSE2025-ME-027	ABDELBASSET GOUADRIA	Stress Intensity Factor for an External Crack in an Elastic Layer Subjected to Torsion by Two Coaxial Rigid Discs
	ICESSE2025-ME-036	IMENE BACHIR BEY	Fatigue Behavior of Multifunctional Composites with Embedded Metallic Inserts: Influence of Insert Thickness
	ICESSE2025-ME-030	LILLA MANSOURI	Analysis of the Influence of Recycled Fiber Content on the Mechanical Properties of a Polyester Resin
	ICESSE2025-ME-035	SAOUD EL ABDELMALEK	Structural and electrochemical study of cathode materials for protonic ceramic fuel cell (PCFC)
	ICESSE2025-ME-018	AMAR BOUDEDJA	Controlled optimization of heat treatments for 304L TRIP steel: Correlating processing parameters with microstructure and mechanical properties
	ICESSE2025-ME-019	MOKHTAR BENCHERIF	Experimental and Numerical Characterization of Springback in V-Bending of AISI 304L Stainless Steel
	ICESSE2025-ME-024	KAHINA AIMENE	Modélisation Numérique du Comportement des Mousses Élastomères pour la Conception de Coussins Orthopédiques
	ICESSE2025-ME-034	FATIHA TEKLAL	Etude du comportement à l'arrachement des interfaces fibre/matrice
	ICESSE2025-ME-039	KACIMI BACHIR	Comportement à l'impact faible vitesse des matériaux composites verre/polyester
	ICESSE2025-ME-038	HAMID ZENTOU	Machine Learning and Genetic Algorithm Optimisation of CO_2 Uptake in Porous Organic Polymers
	ICESSE2025-ME-002	BEN ABDESSELAM DJEDJIGA	Influence du champ magn´etique sur la r´esistance `a la corrosion de l'acier inoxydable 316L dans les solutions de chlorure de sodium contenant du glucose
	ICESSE2025-ME-040	ZAIDI ALI	Analyse de la qualité des perçages des matériaux composites verre/polyester.
	ICESSE2025-ME-016	MOUAS ZAHIRA	Free vibration Behavior of Functionally Graded Nanocomposite Plates Reinforced with Linear and Nonlinear Distributed Carbon Nanotube Nanofillers in Thermal Environment

International Conference on Engineering Sciences for a Sustainable Environment

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Université Mouloud Mammeri de Tizi-Ouzou

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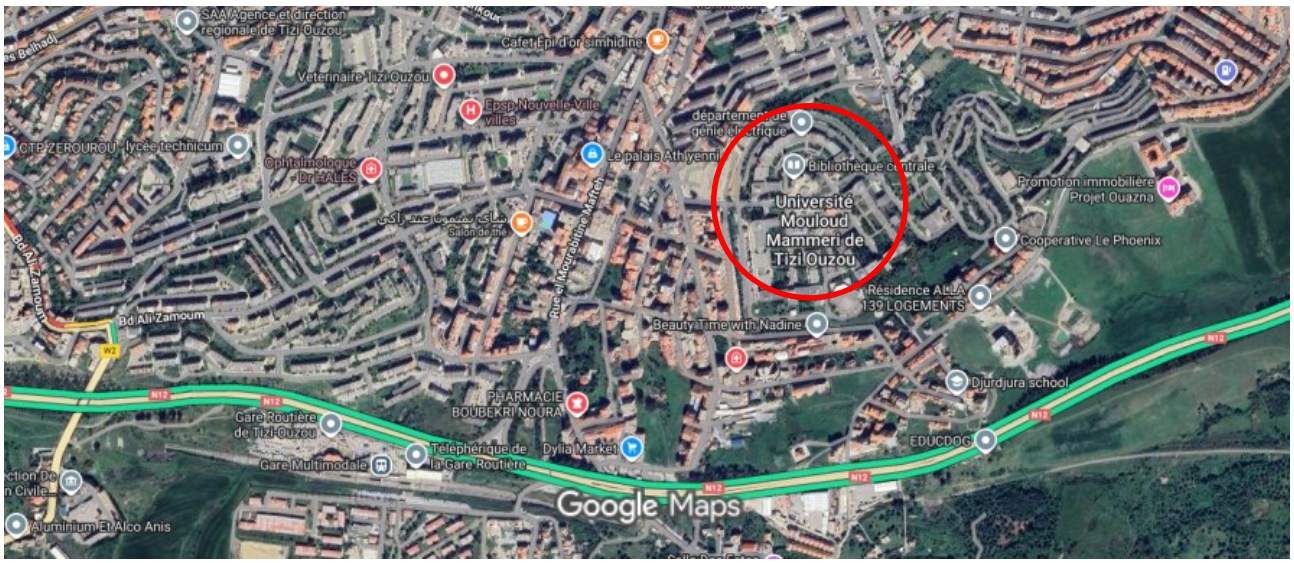

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October 29-30, 2025, at Mouloud MAMMERI University of Tizi-Ouzou Algeria