



1st

NATIONAL CONFERENCE on

CIVIL ENGINEERING ARTIFICIAL

INTELLIGENCE

INTEGRATION



08th - 09th APRIL 2026
OUARGLA- ALGERIA

2026

08th - 09th APRIL 2026
OUARGLA- ALGERIA



WEBSITE OF THE
CONFERENCE

HONORARY CHAIRS

Prof. HALILAT Mohammed Tahar Rector of the University

Prof. KRIKER Abdelouahed Dean of the Faculty

CCE'AII 2026 CHAIRWOMAN

Dr. Samia BOUZOUAID

SCIENTIFIC COMMITTEE CHAIR

Prof. KRIKER Abdelouahed Dean of the Faculty



The 1st National Conference on Civil ENGINEERING and
ARTIFICIAL INTELLIGENCE INTEGRATION (CCE'AII 2026)

2026

08th - 09th APRIL 2026
OUARGLA - ALGERIA

FIRST DAY 08th APRIL 2026

CCE'AII'26 SCHEDULE

07 : 30 - 08 : 30	REGISTRATION
08 : 30 - 09 : 00	OPENING CEREMONY
09 : 00 - 09 : 30	PLENARY CONFERENCE 01: Prof. ABDELOUAHAB LEFKIR
09 : 00 - 12 : 00	ORAL SESSIONS (ONLINE) Rooms: 01, 02, 03
09 : 00 - 12 : 00	POSTER SESSIONS (ONLINE) Rooms: 01, 02, 03
09 : 30 - 10 : 00	PLENARY CONFERENCE 02: Dr. YASMINA KELLOUCHE
10 : 00 - 10 : 30	COFFEE BREAK + POSTER SESSION 01
10 : 30 - 12 : 00	ORAL SESSION 01

12 : 00 - 14 : 00	LUNCH BREAK
14 : 00 - 14 : 30	PLENARY CONFERENCE 03 : Prof. BAHLOUL OUASSILA
14 : 30 - 15 : 00	PLENARY CONFERENCE 04: Dr. NABIL KEBAILI
14 : 00 - 17 : 00	ORAL SESSIONS (ONLINE) Rooms: 04, 05, 06
14 : 00 - 17 : 00	POSTER SESSIONS (ONLINE) Rooms: 04, 05
15 : 30 - 16 : 00	COFFEE BREAK + POSTER SESSION 02

SECOND DAY 09th APRIL 2026

CCE'AII'26

08 : 00 - 09 : 00	REGISTRATION
09 : 00 - 09 : 30	PLENARY CONFERENCE 05: Prof. Mohammed HADJ MELIANI
09 : 30 - 10 : 00	PLENARY CONFERENCE 06: Prof. HOUARI Sid Ahmed
09 : 00 - 12 : 00	ORAL SESSIONS (ONLINE) Room: 07
10 : 00 - 10 : 30	COFFEE BREAK + POSTER SESSION 03
10 : 30 - 11 : 00	PLENARY CONFERENCE 07: Dr. ABDELKADER LAAFE
11 : 00 - 12 : 00	ORAL SESSION 02
11 : 30 - 12 : 30	CLOSING CEREMONY
12 : 30 - 14 : 00	LUNCH BREAK

CONFERENCE SESSION & KEYNOTE LECTURE

08th APRIL 2026

SESSION CHAIR: Abderezzak KHELLOU

MEMBERS: Prof. Mohamed RABEHI, Dr. Dalila OULHAC, Dr. Merieme ELFERGOUGUI



PLENARY CONFERENCE 01

09 : 00 – 09 : 30

Title: AI for Enhancing bridge Resilience A hybride PCA-XGBost Approach for Scour Prediction

Prof. ABDELOUAHAB LEFKIR

E.N.P. Alger (Algeria)



PLENARY CONFERENCE 03

09 : 30 – 10 : 00

Title: Practical AI Applications in Civil Engineering.

Dr. YASMINA KELLOUCHE

University of Chlef, (Algeria)



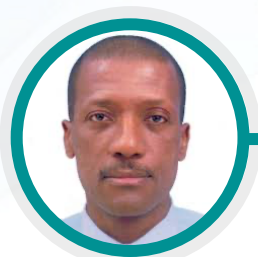
KEYNOTE SPEAKER 02

14 :00 –14 : 30

Title: Impact de la Sélection de Variables sur la Performance des Modèles d'IA en Géotechnique

Prof. BAHLOUL OUASSILA

University of BATNA 02, (Algeria)



PLENARY CONFERENCE 07

14 : 30 – 15 : 00

Title: L'IA DANS L'ENGINEERING Limites ET enjeux

Dr. NABIL KEBAILI

University of Ouargla, (Algeria)



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CONFERENCE SESSION & KEYNOTE LECTURE

09th APRIL 2026

SESSION CHAIR: Dr. Abdsamed MOKHTARI

MEMBERS: Dr. Selma BENZERARI, Dr. Aissa BENTATA



KEYNOTE SPEAKER 05

09 : 00 – 09 : 30

Title: Physics-informed ai: reshaping structural integrity and material durability for future civil infrastructure.

Prof. Mohammed HADJ MELIANI
University of CHLEF. (Algeria)



KEYNOTE SPEAKER 06

09 : 30 – 10 : 00

Title: Effets Non Locaux en Mécanique des Structures et des Composites Avancés.

Prof. Mohammed Sid Ahmed
HOUARI
University of Mascara, (Algeria)



PLENARY CONFERENCE 07

10 : 30 – 11 : 00

Title: Phase Change Materials for Building Applications: Passive, Active, and Hybrid Systems.

Dr. ABDELKADER LAAFER
University of BLIDA 01, (Algeria)

In-person ORAL SESSION



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OUARGLA - ALGERIA



10:30 – 12:00

ORAL SESSION 01

08th APRIL 2026

SESSION CHAIR: Prof. Aicha BESSAIM

MEMBERS:

Prof. Mohamed Bilal GOUDJIL

Dr. Amor MENNAI

Dr. Lokman ABDELDOUAD

Code	Author email	Title Co-authors Topic
0.01	Bekhouché hizia h.bekhouché@univ-batna2.dz	Enhancing Suction Properties of Expansive Soils through Additive Treatment Bahloul ouassila, Lekouara laid <i>Topic 4: Geotechnical Engineering</i>
0.27	Sekhri khadidja K.sekhri@univ-batna2.dz	Numerical analysis of the response of vertical and inclined pile under lateral loads Yahiaoui djarir, Saadi mohamed, Zendaoui abdelhakim <i>Topic 4: Geotechnical Engineering</i>
0.29	Oulhaci dalila oulhaci.dalila@univ-ouargla.dz	Optimization of Surface Irrigation through Infiltration Modeling for Environmental Protection in the Ouargla Basin BENLARBI Remykia Kafia, ZAHAFM Mohammed <i>Topic 5: Water and Environmental Management</i>
0.30	Tebbi fatima Zohra f.tebbi@univ-batna2.dz	Physics-Informed Neural Networks for Dam Deformation Prediction: A 19-Year Multi-Sensor Monitoring Study Bahloul ouassila, Belloula moufid, Lekouara laid <i>Topic 6: Infrastructure, Safety, and Specialized Practices</i>
0.12	Akermi nasreddine nasreddine.akermi@googlemail.com	Effet énergétique de variation de l'angle de calage sur l'auto-démarrage des éoliennes à axe vertical / <i>Topic 2: Sustainable Development and Energy</i>



The 1st National Conference on Civil ENGINEERING and
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11:00 – 12:00

ORAL SESSION 02

09th APRIL 2026

SESSION CHAIR: Dr. DJIREB Samir

MEMBERS:

Prof. BAOUIA Kais

Dr. HACINI Slimane

Dr. KHELASSI Amar

Code	Author email	Title Co-authors Topic
O.02	Bouguedra billel billel.bouguedra@univ-djelfa.dz	A Trees-Based Approach for Estimating Soaked CBR Values Sandjak khaled, Ouanani mouloud, Rezk hegazy <i>Topic 1: AI Integration in Civil Engineering</i>
O.08	Belhadj ahmed Fouad belhadj@univ-setif.dz	Comparative Evaluation of Artificial Neural Networks and Newmark Integration for SDOF Seismic Response Analysis Bensayah abdallah, Belhadj fatma Zohra, Chabaat mohamed <i>Topic 1: AI Integration in Civil Engineering</i>
O.10	Leyla bouaricha l.bouaricha@univ-dbkm.dz	Effect of Fiber Reinforcement on the Mechanical Behavior of Sand Under Various Moisture Conditions: An Experimental and Statistical Study / <i>Topic 1: AI Integration in Civil Engineering</i>
O.07	Boukhelkhal aboubakeur a.boukhelkhal@lagh-univ.dz	Caractérisation physico-mécanique des mortiers autoplaçants à base de sable de dune contaminé Bendaïda mohamed <i>Topic 3: Advanced Construction Materials & Structures</i>

In-person POSTER SESSIONS



WEBSITE OF THE
CONFERENCE

POSTER SESSION 01

08th APRIL 2026

10:00 – 10:30

SESSION CHAIR

Prof. KERNOU Nassim

MEMBERS

Prof. Mohamed Hadj MELIANI	Dr. Amel BELMAABDI
Dr. Slimane HACINI	Dr. Hadda SAIDANE
Dr. Ali Haider CHAHED	Dr. Hizia BEKHOUCHE
Dr. Fares Mohammed Laid REKBI	Prof. Ouassila BAHLOUL
Dr. Laid MECHRI	Dr. Zina MANSOURI
Prof. Samir KATEB	Dr. Mustapha HAFSI
Dr. Yahia MEDDOUR	Dr. Abdellatif RAHMANI

Code	Author <small>email</small>	Title Co-authors <small>Topic</small>
P.02	Marouf larbi <small>larbimarouf59@gmail.com</small>	AI-Assisted Electromagnetic Mapping of River–Aquifer Interactions Along Oued El Hamiz, Mitidja Plain (Northern Algeria) Messaoudi tarek, Zoubida nemer, Benkhelifa randa, Djeddi mohamed <small>Topic 5: Water and Environmental Management</small>
P.03	Boudjelal samia <small>s.boudjelal@univ-batna2.dz</small>	AI-Enhanced Predictive Framework for Energy Dissipation in Hydraulic Jumps: A Hybrid Physics-Machine Learning Approach Tebbi fatima Zohra <small>Topic 5: Water and Environmental Management</small>
P.06	Gliz mohamed <small>gliz.m@univ-mascara.dz</small>	Analyse de la dynamique sédimentaire au bassin versant de Taria (Nord-Ouest Algérien) Remini boualem <small>Topic 5: Water and Environmental Management</small>
P.14	Hamdat loubna <small>hamdat.loubna@univ-ouargla.dz</small>	Contribution of Remote sensing to water management via WAPLugin and the WaPOR database Zegait rachid, Nemer zoubida <small>Topic 5: Water and Environmental Management</small>
P.61	Djedda abir <small>djedda.abir@univ-ouargla.dz</small>	Sustainable Solvothermal Synthesis of Turn-Off Fluorescent Carbon Dots for Iron Sensing in Aqueous media Ouezzani maroua, Melouli manel <small>Topic 2: Sustainable Development and Energy</small>
P.35	Zouaouid taha <small>tahazouaouid@gmail.com</small>	Integrating Classical Machine Learning with Multitemporal Satellite Analysis and Electrical Resistivity Tomography for Soil Salinity Assessment in Ouargla, Southeastern Algeria Marouf youcef, Zoubida nemer, Zeddouri aziez, Benkhelifa randa , Djeddi mohamed <small>Topic 5: Water and Environmental Management</small>

P.36	Souid sabrine soudisabrine@gmail.com	Integrating Remote Sensing and Machine Learning Techniques to Assess Soil Salinity Dynamics in Sebseb Oasis during 1984–2024 Nemer zoubida, Taibi yousef <i>Topic 5: Water and Environmental Management</i>
P.05	Abbache ali haithemabbache@gmail.com	Amortissement non linéaire et vibrations forcées des poutres composites stratifiées Hadj youzera, Berkak hichem, Rachid rabehi <i>Topic 3: Advanced Construction Materials & Structures</i>
P.18	Berghouti hana hana.berghouti@umc.edu.dz	Effets hygrothermique et de la porosité sur la réponse dynamique des nano-poutres à gradient fonctionnel / <i>Topic 3: Advanced Construction Materials & Structures</i>
P.27	Sabiha barour barouree19@gmail.com	Finite element analysis of flexural behavior of CFRP-strengthened RC beams / <i>Topic 3: Advanced Construction Materials & Structures</i>
P.37	Moufok samira moufok_samira@esgee-oran.dz	L'effet d'échange et d'influence dans les propriétés physiques du TeO2 / <i>Topic 3: Advanced Construction Materials & Structures</i>
P.09	Boughaba issam boughabaissam00@gmail.com	Artificial Intelligence–Driven Petrophysical Characterization for Sustainable Reservoir Management in Energy Systems Bouazza mansour, Benkhelifa randa, Nemer zoubida <i>Topic 2: Sustainable Development and Energy</i>
P.15	Ouezzani maroua ouezzani.maroua@univ-ouargla.dz	Development of a Natural Sand-Based Composite for Solar Photocatalytic Applications in water treatment Djari lebna, Djedda abir, Melouli manel, Hocine Sadam Nesrat <i>Topic 2: Sustainable Development and Energy</i>
P.30	Nessil mohamed Abdessalam moumounounou12345@gmail.com	Impact of Rotor Pole Number on Stator Current THD in Five-Phase Permanent Magnet Synchronous Generators for Variable Speed Wind Turbine Benyoussef elakhdar, Benzaoui khaled Mohammed Said, Bouramdane abderraouf, Tati fethallah <i>Topic 2: Sustainable Development and Energy</i>
P.31	Ziregue safouane ziregue.safouane@univ-ouargla.dz	Improvement of the bearing capacity of dune sand by the inclusion of perforated geotextile Kebaili mustapha, Goudjil ishak, Talbi mohammed Abdallah, Ziregue ahmed <i>Topic 4: Geotechnical Engineering</i>
P.32	Belghitar elhadj Becherrair elhadj.belghitar@gmail.com	Influence of Atmospheric Humidity on the Assessment of Vibration Risks in Desert Foundations: A Comparative Study Between Maximum and Minimum Humidity in Touggourt, Algeria Tlili salah, Atoui mohamed, Bouanane rabah <i>Topic 4: Geotechnical Engineering</i>
P.25	Kattar abdelfateh fatehkattar123@gmail.com	Evaluation Numérique des Déformations des Pipelines Enterrés tenant Compte de la Pression interne Mennaai amor, Kattar hanane, Kattar siham <i>Topic 4: Geotechnical Engineering</i>
P.12	Guemmadi zihour tb_dz2001@yahoo.fr	Béton éco-performant à base de biochar issu du marc de café : approche expérimentale et optimisation par apprentissage automatique pour la durabilité et la protection des ressources en eau Belkacem toumi <i>Topic 1: AI Integration in Civil Engineering</i>
P.43	Krimil farida f.krimil@univ-batna2.dz	Neural Networks for Rainfall-Runoff Prediction: Data Splitting and Precipitation Comparison Tebbi fatima Zohra, Bahloul ouassila <i>Topic 5: Water and Environmental Management</i>
P.200	Salhi Kamel	

POSTER SESSION 02

08th APRIL 2026

15:30 – 16:00

SESSION CHAIR	Prof. Mohamed Ouejdi BELARBI	
MEMBERS	Dr. Abdsamed MOKHTARI	Dr. Abderrezak ZENKHRI
	Prof. Mohammed SID AHMED HOUARI	Dr. Samir DJIREB
	Dr. Yasmina KELLOUCHE	Dr. Hania MAOUCHE
	Dr. khadidja SEKHRI	Dr. ATTAB Rabah
	Dr. Abdelkader LAAFER	Prof. Abdelouahab LEFKIR
	Dr. Moussa ZERROUKI	Dr. Rachid ZEGAIT

Code	Author <small>email</small>	Title <small>Co-authors</small> <small>Topic</small>
P.44	Bounoua abdelkrim <small>karimboun47@gmail.com</small>	Optimisation du Comportement en Flexion d'un Béton de Sable Dunaire Chargé en Gravillons et Renforcé par des Fibres Métalliques Ondulées Courtes / <small>Topic 3: Advanced Construction Materials & Structures</small>
P.55	Belaid hichem <small>belaidh008belhaje@gmail.com</small>	Static modeling of a sandwich beam reinforced with a metal plate Ziou hassina, Himeur mohammed <small>Topic 3: Advanced Construction Materials & Structures</small>
P.71	Boukellouda a bdelhafid <small>abdelhafid.boukellouda@univ-bejaia.dz</small>	Weibull Analysis of Mortars Substituted with Ground Date Palm / <small>Topic 2: Sustainable Development and Energy</small>
P.64	Mostefaoui ikram <small>mostefaouiikram915@gmail.com</small>	The influence of the Addition of Silica Fume on the Mechanical Properties of Dune Sand Concretes Belferrag allaoua, Meziani nedjma <small>Topic 3: Advanced Construction Materials & Structures</small>
P.66	Mohamed Amine ouared <small>m.ouared22@univ-chlef.dz</small>	Thermal Performance of Gypsum Plaster Incorporating Crushed Construction and Demolition Waste Bougara abdelkader, Beldjilali said <small>Topic 3: Advanced Construction Materials & Structures</small>
P.69	Bouhemame nasser <small>bouhemame_nacer@yahoo.fr</small>	Valorization of Washingtonia palm leaflets: multiscale analysis of physicochemical, thermal and mechanical properties for their integration into biocomposites Abderrezak bezazi, Reis paulo N.b, Scarpa fabrizio <small>Topic 3: Advanced Construction Materials & Structures</small>

P.39	Belkacem toumi tb_dz2001@yahoo.fr	Matériaux cimentaires intégrant des résidus d'encre jet d'encre : évaluation du relargage et modèle IA pour la prédiction du risque vis_à_vis des nappes phréatiques Guemmadi zihour <i>Topic 1: AI Integration in Civil Engineering</i>
P.04	Guermi laid l.guermi@univ-djelfa.dz	Amélioration les performances physiques et mécaniques d'un béton léger Belakhal brahim <i>Topic 3: Advanced Construction Materials & Structures</i>
P.85	BENZID Abdelhamid abhdbenzid24@gmail.com	Effect of Polymer Additives on the Characteristics of Bitumen 40/50 BASACI Nour El Imane , BENTATA Aissa <i>Topic 3: Advanced Construction Materials & Structures</i>
P.79	Maouche Hania hanmaouche@hotmail.com	Effect of Quartz Powder on the Mechanical Properties of Mortar in an Airy Environment Hachem chaib <i>Topic 3: Advanced Construction Materials & Structures</i>
P.89	LANAG Abdennour Lanag.abdennour@univ-ouargla.dz	Influence of glass powder as a filler on the mechanical characteristics of bituminous concrete based on alluvial sands KBAILI Nabil <i>Topic 3: Advanced Construction Materials & Structures</i>
P.91	Boukhelkhal Aboubakeur a.boukhelkhal@lagh-univ.dz	Contribution à la formulation d'un béton de chaussée à base des granulats de granite recyclés et des fibres métalliques Tahar Dine , Karim Bounoua <i>Topic 3: Advanced Construction Materials & Structures</i>
P.24	Oulhaci dalila oulhaci.dalila@univ-ouargla.dz	Évaluation de la qualité des eaux du lac de Hassi Ben Abdallah en vue de leur utilisation en irrigation et de la protection de l'environnement BENLARBI Remykia Kafia ,ZAHAFMohammed <i>Topic 5: Water and Environmental Management</i>
P.49	Mancer fouzi fouzi.mancer@univ-biskra.dz	Probabilistic Assessment of Skirted Footings under Eccentric Loading Merrakchi mohamed Sadak, Djireb samir, Mabrouki abdelhak <i>Topic 4: Geotechnical Engineering</i>
P.51	Goudjil ishak goudjil.ishak@univ-ouargla.dz	Shear Strength Enhancement of Dune Sand Using Perforated Geotextile Reinforcement Kebaili mustapha, Mohammed Abdallah talbi, Safouane ziregue <i>Topic 4: Geotechnical Engineering</i>
P.87	LAOUINI Reda redageo89@gmail.com	Geomechanical analysis of rock stability and fluid loss mechanisms during Drilling: Application to Underground Works LAOUINI Hamza , MEDJANI Fethi <i>Topic 4: Geotechnical Engineering</i>



POSTER SESSION 03

09th APRIL 2026

10:00 – 10:30

SESSION CHAIR	Dr. Youcef LEGHRIEB	
MEMBERS	Dr. Elhocine CHIBA	Dr. Mustapha HAFSI
	Dr. Yasmina KELLOUCHE	Dr. Yamina GHERAIRI
	Dr. Fares Mohamedlaid REKBI	Dr. Abdsamed MOKHTARI
	Dr. Hadda SAIDANE	Dr. Selma BENZERARI
	Dr. Abderezzak KHELLOU	Dr. Youcef ABIMILOUD
	Dr. Nabil KEBAILI	Dr. Ali Haider CHAHED
	Dr. Abdellatif RAHMANI	Dr. Laid MECHRI

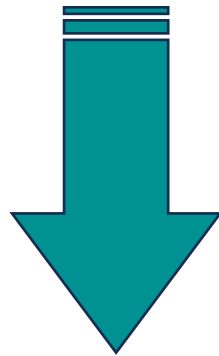
Code	Author <small>email</small>	Title <small>Co-authors</small> <small>Topic</small>
P.53	Dernouni mhamed <small>der.mhamed@gmail.com</small>	Solar Thermal Heating of Commercial Premises Using a Parabolic Trough Concentrator: A Case Study in the Béchar Region, Algeria Necib djlani , Eddine Nami djamal, Dobbi hadj Lakhdar <small>Topic 2: Sustainable Development and Energy</small>
P.58	Guerdouh amal <small>guerdouh.amel@univ-ouargla.dz</small>	Sustainable Cathodic Protection for Enhancing the Durability of a Steel Gas Pipelines Kachi sacia, Hacini zineb, Medjoudja rima Rayane <small>Topic 2: Sustainable Development and Energy</small>
P.60	Benkara Mostafa sirine Khadidja <small>mimibkm2@gmail.com</small>	Sustainable Geopolymer Concrete: Integration of Dune Sand and Recycled Brick Waste. Derrouiche norhane Chiraz, Chaib hachem <small>Topic 3: Advanced Construction Materials & Structures</small>
P.75	Mohamed ATOUI <small>atouim3000@gmail.com</small>	Numerical Analysis and Efficiency Enhancement of CdTe Solar Cells Hazem Bouraoui , Salah Tlili <small>Topic 2: Sustainable Development and Energy</small>
P.81	Aliouat Khadra <small>aliouat.khadra@univ-ouargla.dz</small>	Parametric Thermodynamic Study of an Absorption Refrigeration System: Effects of Operating Temperatures Noureddine Cherrad <small>Topic 2: Sustainable Development and Energy</small>
P.77	Tahar Hafi <small>hafi.tahar@univ-ouargla.dz</small>	Optimization of Drip Irrigation Scheduling for Potato Crops in Sandy Soils: An Approach Based on Hydro-Physical Constants (Case Study: El Oued Region). Myriam Marie El Fergougui

P.78	Abdellatif Rahmani abdellatif.rahmani@univ-ouargla.dz	Sustainable Wastewater Treatment Using Reeds and Integrated Water Resources Management in Arid Regions Kahoul Farès , Djamel Zerrouki , Ahmed Tabchouche , Gherbi Bachir , Naoual Zobeidi Topic 5: Water and Environmental Management
P.84	Zina Mansouri mansouri.zina@univ-ouargla.dz	Cartographie Des Paramètres Physico-Chimiques De Nappe Sénonien Désignes Pour L'alimentation En Eau Potable Youcef Leghrieb , Saber Kouadri Topic 5: Water and Environmental Management
P.42	Hacini zineb hacini.zineb@univ-ouargla.dz	Monitoring Total Hardness of Touggourt Region Water Using CRD Design After Treatment with Chicken and Quail Eggshells Guerdouh amel, Alansi hassaan Topic 5: Water and Environmental Management
P.72	Hamida AKCHICHE akchiche.hamida@univ-ouargla.dz	Shrinkage Modeling Of Mortar Reinforced By Recycled Glass Waste (Using Houari Model) Asma MESSINI Topic 3: Advanced Construction Materials & Structures
P.68	Hacini zineb hacini.zineb@univ-ouargla.dz	Use of Construction Materials (Sand, Gravel) with Activated Carbon for Wastewater Treatment Guerdouh amel, Lamri souhir Topic 5: Water and Environmental Management
P.74	BENARIMA Zine el abidine zine.benarima.gp@gmail.com	Studying the effect of coal on blended cement hydration BENTAIEB Noureddine Topic 3: Advanced Construction Materials & Structures
P.90	MEKHERMECH E Abdessalam syamabdou@yahoo.fr	Contribution à l'étude thermomécanique des briques de terre selon le processus de séchage et de cuisson BEN TATA Aissa-AOUAMEUR Chikh - CHAIB.Hachem Topic 3: Advanced Construction Materials & Structures
P.92	Samia BOUZOUAID bouzouaid,samia@uin-ouargla.dz	Characterization of Cement Mortar Enhanced with Expanded Polystyrene Beads in Terms of Mechanical and Thermal Properties Aya Meramria , Meche Ikram Topic 3: Advanced Construction Materials & Structures
P.86	BENZID Abdelhamid abhdbenzid24@gmail.com	Impact of Polypropylene on the Stiffness Modulus of Hot Mix Asphalt: An Experimental Study CHAIB Hachem , ATLILI Mohammed talal , ZERIBI Ismail Topic 3: Advanced Construction Materials & Structures
P.47	Abderrrezak khellou khellou.abderrrezak@univ-ouargla.dz	Parametric Study of a Spherical Dome Souria kemassi, Safa khemis Topic 3: Advanced Construction Materials & Structures
P. 200	BELABBAS Amina amina-belabbas@univ-eloued.dz	Caractérisation des eaux potables de la région de sud est en algérie KHEZAZNA Amina Topic 5: Water and Environmental Management



On-Line ORAL

SESSIONS



WEBSITE OF THE
CONFERENCE



The 1st National Conference on Civil ENGINEERING and
ARTIFICIAL INTELLIGENCE INTEGRATION (CCE'AII 2026)

2026 08th - 09th APRIL 2026
OUARGLA- ALGERIA



Google Meet

09:00 – 12:00

ONLINE ORAL ROOM 01

08th APRIL 2026

MANAGER: Dr. Cherif BOULEBBINA, e-mail: cherif.boulebbina@univ-ouargla.dz

SCIENTIFIC MEMBERS:

Prof. Mohamed RABEHI

Prof. Mohammed MANI

Prof. Youssouf MEDDAHI

Dr. Ahmed BENYAMINA

Link  : <https://meet.google.com/tan-mhox-iuk>
Google Meet

Code	Author email	Title Co-authors Topic 3: Advanced Construction Materials & Structures
OR.ON.03	Rebadj chabane chabane.rebadj@univ-tebessa.dz	A parametric XFEM-based Investigation of the interaction Effects Among Multiple Internal cracks on Mixed-Mode stress Intensity Factors / Topic 3: Advanced Construction Materials & Structures
OR.ON.08	Bennaceur sidi Mohamed bennaceur.sidimohamed@cuniv-naama.dz	ANALYSE DU FLAMBEMENT DES STRUCTURES NANO-COMPOSITES EN SE BASANT SUR LA THEORIE HSDT COMBINEE / Topic 3: Advanced Construction Materials & Structures
OR.ON.09	Adjeloua abdelaziz adjelouaziz@hotmail.fr	Analyse numérique du comportement en flexion des plaques en matériaux FGM sous diverses conditions aux limites Boualem noureddine, Lebbal habib Topic 3: Advanced Construction Materials & Structures
OR.ON.12	Zendaoui abdelhakim a.zendaoui@univ-batna2.dz	Assessment of Numerical Modeling Approaches for Nonlinear Behavior of RC Frames Using Pushover Analysis Yahiaoui djarir, Saadi mohamed, Sekhri khadidja Topic 3: Advanced Construction Materials & Structures
OR.ON.13	Saoudi nacira saoudinacira@gmail.com	Behavior of Local Waste-Based Mortars In Diverse Environments Cherfa hayet, Saoudi saoudi, Salim kenouche, Brahim hami , Mokrani ilham Topic 3: Advanced Construction Materials & Structures
OR.ON.18	Hamidi kawthar k.hamidi22@univ-chlef.dz	Comparative Numerical Study Between Perfect Bond and Cohesive Zone Modeling in FRP-Strengthened Concrete Structures / Topic 3: Advanced Construction Materials & Structures
OR.ON.19	Bergad mohamed mohamed.bergad@univ-djelfa.dz	Comparative Study of Microsilica-Based Self-Compacting Concrete Incorporating Natural and Recycled Aggregates. /

OR.ON.20	Lammari meriem meriem.lammari@univ-msila.dz	Compressed and Stabilized Earth Bricks for Passive Energy Efficiency in Arid and Semi-Arid Regions Bencheikh mohamed <i>Topic 3: Advanced Construction Materials & Structures</i>
OR.ON.23	Belkacem djoual belkacem.djoual@univ-djelfa.dz	Improving the Durability of Self-Compacting Sand Concrete through Sustainable Use of Mineral Additives Ratiba Mitiche Kettab <i>Topic 3: Advanced Construction Materials & Structures</i>
OR.ON.41	Dehane sarah sarra.dhn@gmail.com	Experimental Investigation of Concrete Made with Wash Water / <i>Topic 3: Advanced Construction Materials & Structures</i>
OR.ON.42	Messaoud koudiri messaoud.koudiri@lagh-univ.dz	Experimental Study on the Effect of Partial Replacement of Sand with Granite on Immersion and Capillary Water Absorption of Sand Concrete Khadra bendjillali Tayeb bouziani <i>Topic 3: Advanced Construction Materials & Structures</i>
OR.ON.39	Smakdji nafia nafila.smakdji@univ-jijel.dz	Evaluation of the hygrothermal performance of a sheep wool fiber-based insulation / <i>Topic 3: Advanced Construction Materials & Structures</i>
OR.ON.27	Kemer houssam kemer.houssam@yahoo.fr	Effet de la nature de superplastifiant sur le comportement rhéo-épaississant des pâtes cimentaires durable Belkadi mourad <i>Topic 3: Advanced Construction Materials & Structures</i>
OR.ON.30	Talhaoui abdallah talhaoui.abdallah@univ-bechar.dz	Étude de l'impact du temps de cure sur l'isotherme de sorption de béton / <i>Topic 3: Advanced Construction Materials & Structures</i>
OR.ON.33	Megherbi mohammed Rafik megherbi.mohammedrafik@cuniv-naama.dz	Etude du comportement vibratoire des structures FG-poreuses par la Théorie HSDT-trigonométrique Bourada fouad , Bennaceur sidi Mohamed , Bourada mohamed , Ait Sidhoum imene , Belabed zakaria , Tounsi abdelouahed <i>Topic 3: Advanced Construction Materials & Structures</i>
OR.ON.87	Chekir kamel kamel.chekir@student.umc.edu.dz	Simulation Numérique de l'interface de liaison entre l'acier inoxydable et le béton en tenant compte de l'Endommagement du Béton et de la Plasticité des Armatures. Khebizi mourad <i>Topic 3: Advanced Construction Materials & Structures</i>
OR.ON.91	Souici ikram karomasouici1996@gmail.com	Study of the correlation between the properties of sand concrete based on recycled concrete sand Zeghichi leila <i>Topic 3: Advanced Construction Materials & Structures</i>



The 1st National Conference on Civil ENGINEERING and
ARTIFICIAL INTELLIGENCE INTEGRATION (CCE'AII 2026)
2026 08th - 09th APRIL 2026
OUARGLA - ALGERIA



09:00 – 12:00

ONLINE ORAL ROOM 02

08th APRIL 2026

MANAGER: Dr. Yassmina MOKHBI, *Email* :Mokhbi.yasmina@univ-ouargla.dz

SCIENTIFIC MEMBERS:

Prof. Adel BENIDIR

Prof. Djarir YAHIAOUI

Dr. Abderezzak KHELLOU

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Google Meet

Code	Author <i>email</i>	Title Co-authors <i>Topic 3: Advanced Construction Materials & Structures</i>
OR.ON.34	Slimani rachid <i>slimanirachid43@yahoo.fr</i>	Étude et analyse du comportement des assemblages mixtes / <i>Topic 3: Advanced Construction Materials & Structures</i>
OR.ON.36	Merad rafika Imane <i>merad.imane@univ-medea.dz</i>	Evaluating the Performance of Self-Compacting Mortars Using Alternative Cementitious Materials Bentchikou mohamed , Benabed benchaa, Merad mostapha Rafik, Takhi kaouthar <i>Topic 3: Advanced Construction Materials & Structures</i>
OR.ON.59	Belkadi mourad <i>belkadimourad32@gmail.com</i>	Influence des noyau d'olive sur les caractéristiques du béton autoplaçant Kemer houssam <i>Topic 3: Advanced Construction Materials & Structures</i>
OR.ON.56	Daguiani salah Eddine <i>salahdaguiani@hotmail.com</i>	Impact of Partial Replacement of Cement with a Blend of Slag and Glass Waste Powder on Mortar / <i>Topic 3: Advanced Construction Materials & Structures</i>
OR.ON.53	Kerrai lila <i>lilakarai@yahoo.fr</i>	Impact des déchets de démolition sur les propriétés du ciment Portland Tebani samira <i>Topic 3: Advanced Construction Materials & Structures</i>
OR.ON.44	Khiloun nair <i>khilounnair@gmail.com</i>	Forced vibrations of a cylindrical FGM sandwich panel resting on Winkler-Pasternak foundations Elmeiche noureddine, Mechab ismail, Abbad hicham <i>Topic 3: Advanced Construction Materials & Structures</i>

OR.ON.45	Meftah ali genietech2013@yahoo.fr	Free vibration analysis of functionally graded sandwich thick beams supported by an elastic foundation using a refined quasi-3D theory. / <i>Topic 3: Advanced Construction Materials & Structures</i>
OR.ON.47	Masmoudi amina amina.masmoudi@univ-biskra.dz	Full-Field Analysis of Length Effects on Edgewise Compressive Behavior of Sandwich Structures Adimi yassine, Zeroual afaf, Bouaziz ahmed, Khechai abdelhak <i>Topic 3: Advanced Construction Materials & Structures</i>
OR.ON.60	Meftah ali genietech2013@yahoo.fr	Influence of even and uneven porosity on the Free Vibration Behavior of Functionally Graded Plates. / <i>Topic 3: Advanced Construction Materials & Structures</i>
OR.ON.66	Souici ikram karomasouici1996@gmail.com	L'influence des sables recyclés sur les propriétés de béton de sable Zeghichi leila <i>Topic 3: Advanced Construction Materials & Structures</i>
OR.ON.73	Zemri cheikh ch.zemri@univ-mascara.dz	Optimisation de la durabilité des matériaux cimentaires par l'incorporation de déchets de verre finement broyés / <i>Topic 3: Advanced Construction Materials & Structures</i>
OR.ON.74	Nezergui bachir nezergui.bachir@gmail.com	Optimisation des propriétés mécaniques et de la durabilité des éco-bétons autoplaçants à granulats recyclés via les additions Omrane mohammed, Taha Hocine douara, Nadour fethi <i>Topic 3: Advanced Construction Materials & Structures</i>
OR.ON.69	Chadli mounira mounira.chadli@univ-biskra.dz	Mechanical And Physical Properties Of Reactive Powder Concrete Containing Red Brick Waste At High Temperature Mekki mellas <i>Topic 3: Advanced Construction Materials & Structures</i>
OR.ON.77	Ghezal abdelaziz abdelaziz.ghezal@univ-djelfa.dz	Optimizing Asphalt Mixture Gradation: A Systematic Approach for Proportion Selection Azzouzi boulanouar, Cheriet fayssal, Taha Hocine douara <i>Topic 3: Advanced Construction Materials & Structures</i>
OR.ON.78	Bacha chahrazad chahrazad.bacha@univ-usto.dz	Parametric Study of the Static Response of Soil-Pipe Interaction System Zoutat meriem, Mohammed mekki <i>Topic 3: Advanced Construction Materials & Structures</i>
OR.ON.93	Doukani abderrahe mane a.doukani@univ-djelfa.dz	Study of the resistance of self-compacting mortars based on glass powder to hydrochloric acid (HCL) attack / <i>Topic 3: Advanced Construction Materials & Structures</i>





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2026 08th - 09th APRIL 2026
OUARGLA- ALGERIA



09:00 – 12:00

ONLINE ORAL ROOM 03

08th APRIL 2026

MANAGER: Prof. BENSID khaled, *Email:bensaid.khaled@univ-ouargla.dz*

SCIENTIFIC MEMBERS:

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Dr. RACHED Ahmed AZZOZ

Prof. Bachir GLAOU

Dr. Amor MENNAI

Link  : <https://meet.google.com/mgm-xghe-iov>
Google Meet

Code	Author email	Title Co-authors Topic 1: AI Integration in Civil Engineering
OR.ON.51	Farik ali <i>farik-ali@univ-eloued.dz</i>	Hybrid FEM-Machine Learning Approaches for Predicting the Bearing Capacity of Shallow Foundations on Geosynthetic-Reinforced Soils Aouadj abdefattah, Djabri mohamed <i>Topic 1: AI Integration in Civil Engineering</i>
OR.ON.46	Guettioui merouane <i>m.guettioui@univ-chlef.dz</i>	From Experimental Data to Intelligent Strength Assessment of Slag-Based Cement Paste: A Comparative Study of Artificial Neural Network and Random Forest Bougara abdelkader, Kellouche yassmina <i>Topic 1: AI Integration in Civil Engineering</i>
OR.ON.35	Boualem ikhlef <i>bou.ikhlef@univ-adrar.edu.dz</i>	Étude statique non linéaire d'une pile élançée et une autre pile courte d'un viaduc en béton précontrainte Nadjib hemaidi Zourgui, Lyacine bennacer, Abderrahmane kibboua <i>Topic 1: AI Integration in Civil Engineering</i>
OR.ON.17	Aouadj abdefattah <i>a.aouadj@gmail.com</i>	Cloud-Based Freeware Web App for Shallow Foundations Behavior Prediction Using CPT and AI Modeling Farik ali <i>Topic 1: AI Integration in Civil Engineering</i>
OR.ON.11	Boursas farid <i>farid.boursas@univ-tebessa.dz</i>	Approche par apprentissage automatique de la résistance en flexion des bétons à fibres d'aluminium recyclées Boufarh rafik, Abderrahmani sifeddine <i>Topic 1: AI Integration in Civil Engineering</i>
OR.ON.05	Ghanemi nour Elhouda <i>nourelhouda.ghanemi@univ-biskra.dz</i>	AI-Driven Active Control System for Vibration Mitigation in Structures Using Artificial Neural Networks Abdeddaim mahdi, Ounis abdelhafid <i>Topic 1: AI Integration in Civil Engineering</i>

OR.ON.76	Saci ahmed saciahmed87@yahoo.fr	Optimization of Bitumen Modification with Lucobit 1210 A Polymer using Experimental and Artificial Intelligence Modeling / <i>Topic 1: AI Integration in Civil Engineering</i>
OR.ON.70	Rahmani mohammed mohammedcherif.rahmani@univ-usto.dz	Mechanics-based deep learning framework for predicting deflection of functionally graded composite plates using an enhanced whale optimization algorithm / <i>Topic 1: AI Integration in Civil Engineering</i>
OR.ON.67	Messaoudi abderaouf abderaouf.messaoudi@univ-djelfa.dz	Machine Learning and Artificial Intelligence for Asphalt Pavements: State of the Art Zaouai said, Rabehi mohamed, Rachid rabehi <i>Topic 1: AI Integration in Civil Engineering</i>
OR.ON.90	Douli dounya douli.dounia@univ-bechar.dz	Soil-Structure Interaction Analysis of a Reinforced Concrete Residential Building on Compressible Soil According to RPA 2024 / <i>Topic 1: AI Integration in Civil Engineering</i>
OR.ON.82	Belbachir abdelghani abdelghani.belbachir@univ-tlemcen.dz	Predictive Analysis of Desiccation Cracking in Earthen Soils Using Machine Learning Benchouk assia, Derfouf mounir Fethallah <i>Topic 1: AI Integration in Civil Engineering</i>
OR.ON.80	Arabet leila arabet.leila@univ-ijjel.dz	Prédiction du facteur de sécurité des barrages en terre par apprentissage automatique bio-inspiré Belaabed faris, Malaoui rachida, Benbouza assma <i>Topic 1: AI Integration in Civil Engineering</i>
OR.ON.111	Amar BELGHIT amar.belghit@umtmo.dz	Application of AdaBoost algorithm on multiclass OvA-SVM for classification of precipitating clouds over northern Algeria using multispectral MSG-SEVIRI satellite data Mourad LAZRI , Fethi Ouallouche , Karim LABADI , Soltane Ameur <i>Topic 1: AI Integration in Civil Engineering</i>
OR.ON.109	Bellala amel amel.bellala@outlook.com	Vers une gestion augmentée du patrimoine architectural par l'Intelligence Artificielle / <i>Topic 1: AI Integration in Civil Engineering</i>
OR.ON.104	Nadji loubna nadji.loubna@cuniv-naama.dz	Using Artificial Neural Networks to Predict the Vibration Frequencies of Functionally Graded Beams / <i>Topic 1: AI Integration in Civil Engineering</i>
OR.ON.147	Zefzouf manel zefzouf.manel.22@gmail.com	Interpretable Scour Prediction Around Monopile Foundations Using Attention-Based Neural Networks. Chioukh nadji <i>Topic 1: AI Integration in Civil Engineering</i>
OR.ON.150	Matoug soumia Anfal anfalsoumia.matoug@univ-usto.dz	Soil Temperature Prediction using Machine learning for Energy Optimization Bouhacina omar, Bekhti sid Ahmed, Mokhtari abderahmane Mejedoub <i>Topic 1: AI Integration in Civil Engineering</i>
OR.ON.140	Benkedadra fatima Zohra fatimazohra.benkedadra@etu.univ-mosta.dz	AI Companions for Traffic Engineers: Optimizing Self-Consumption Roads from Design to Deployment Midoun mohammed, Bensalloua charef Abdellah <i>Topic 1: AI Integration in Civil Engineering</i>
OR.ON.14	Benziane sarah sarah.benziane@univ-usto.dz	Beyond Strength: A Tri-Objective Hybrid Intelligence Framework for the Durability-Based Optimization of Eco-Efficient Concrete / <i>Topic 1: AI Integration in Civil Engineering</i>



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2026 08th - 09th APRIL 2026
OUARGLA - ALGERIA



14:00 – 17:00

ONLINE ORAL ROOM 04

08th APRIL 2026

MANAGER: Dr. BOUZIANE Khadidja, *Email: Bouziane.Khadidja@univ-ouargla.dz*

SCIENTIFIC MEMBERS:

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Prof. KENDOUCI Mohammed Amin

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Google Meet

Code	Author email	Title Co-authors Topic 5: Water and Environmental Management
OR.ON.48	Bouragaa kheira <i>bourag.kheira@univ-adrar.edu.dz</i>	Geometry Controlled Particle Transport in Fractures: Role of Aperture Distribution Lyacine bennacer, Allalou rania <i>Topic 5: Water and Environmental Management</i>
OR.ON.54	Afoufou fateh <i>f.afoufou@univ-batna2.dz</i>	Impact of Clarification Treatments on the Removal of Organic Pollution from Surface Water Benchaiba leila, Youcef leila, Guergazi saadia <i>Topic 5: Water and Environmental Management</i>
OR.ON.55	Nedjai radhia <i>radiaradia19@gmail.com</i>	Impact of Initial Turbidity and Powder Bio-coagulant Dosage on Turbidity Removal Al Mamun abdullah, Alam md Zahangir <i>Topic 5: Water and Environmental Management</i>
OR.ON.89	Kheloui meriem <i>khelouimeriem23@gmail.com</i>	Sodium alginate–halloysite based material: synthesis, characterization and water treatment application / <i>Topic 5: Water and Environmental Management</i>
OR.ON.68	Assia meziani <i>assia-meziani@univ-eloued.dz</i>	Machine Learning Approaches for Long-Term ET_ Modeling in Ouargla, Algeria (2000–2025) / <i>Topic 5: Water and Environmental Management</i>
OR.ON.62	Guerdouh amal <i>guerdouh.amel@univ-ouargla.dz</i>	Influence of Metal Ionic Properties on Solvent Extraction Efficiency in Water Treatment Processes Hacini zineb , Kachi sacia, Segni ladjel <i>Topic 5: Water and Environmental Management</i>
OR.ON.75	Goudjil sarah <i>sarah.goudjil@ummtto.dz</i>	Optimization of a Plant-Based Natural Coagulant Using Response Surface Methodology to Reduce Turbidity and COD in Industrial Wastewater Treatment Yahi takai-Eddine, Zorai ameur <i>Topic 5: Water and Environmental Management</i>

OR.ON.25	Kachi sacia kachi.sacia@gmail.com	Effect of Aeration on the Performance of Biological Treatment of Domestic Wastewater Guerdouh amal, Hafiane rania <i>Topic 5: Water and Environmental Management</i>
OR.ON.31	Amina mezouagh amina.mezouagh@univ-mosta.dz	Etude de la dépollution des eaux de rejets par un aluminosilicate synthétique / <i>Topic 5: Water and Environmental Management</i>
OR.ON.22	Benkechkache imane imane.benkechkache@univ-constantine3.dz	Contribution of Remote Sensing and Google Earth Engine to Flood Risk Prevention in the Municipality of El Khroub (Constantine, Algeria) Kaghoucha mehdi <i>Topic 5: Water and Environmental Management</i>
OR.ON.103	Mekatel samer s.mekatel@lagh-univ.dz	use of fault tree for water distribution system reliability Zerrouki hamza <i>Topic 5: Water and Environmental Management</i>
OR.ON.107	Kachi sacia kachi.sacia@gmail.com	Valorization of Wastewater Treatment Sludge into Activated Carbon for Domestic Wastewater Treatment Guerdouh amal, Hafiane rania <i>Topic 5: Water and Environmental Management</i>
OR.ON.108	Sahi chahrazed chahrazed.sahi@univ-bejaia.dz	Vers l'amélioration de la gestion des services d'eau potable : un cadre méthodologique fondé sur des indicateurs de performance et des outils d'aide à la décision / <i>Topic 5: Water and Environmental Management</i>
OR.ON.142	Mokhtaria dehar deharmokhtaria@yahoo.fr	Elimination of Toxic Organic Dyes by a Bio-Composite Material Moulkheir ayat, Sofiane khanoussi <i>Topic 5: Water and Environmental Management</i>
OR.ON.144	Gourari sarra gourari.sarra@univ-bechar.dz	Hybrid Analysis of Machine Learning Algorithms for Intelligent Irrigation Scheduling in Precision Agriculture Difallah wafa, Draoui belkacem <i>Topic 5: Water and Environmental Management</i>
OR.ON.156	Soraya salmi s.salmi@univ-boumerdes.dz	Three-Dimensional Interfacial Gravity Waves in Two-Layer Fluids under a Uniform Current / <i>Topic 5: Water and Environmental Management</i>
OR.ON.152	Racha bouche nak Khelladi rashamajda@hotmail.fr	Agave Plant as Green Coagulants for Sustainable Wastewater Treatment Chiboub Fella abdelghani, Benyagoub meriem, Chiboub Fella fatima Zohra, Rahmani zineb <i>Topic 5: Water and Environmental Management</i>
OR.ON.160	Belaid abdelali abdelalibelaid26@gmail.com	Biodegradable Carboxymethylcellulose-Based Copolymers as Sustainable Adsorbents for Water Treatment / <i>Topic 5: Water and Environmental Management</i>
OR.ON.161	Melouki soriya souria28000@gmail.com	Water purification using an organic material: biochar. Reffas abdelbaki, Melouki azzedine <i>Topic 5: Water and Environmental Management</i>



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14:00 – 17:00

ONLINE ORAL ROOM 05

08th APRIL 2026

MANAGER: Dr. Abdelhai LATI. , *Email:lati.abdelhai@univ-ouargla.dz*

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Code	Author <i>email</i>	Title Co-authors Topic 4: Geotechnical Engineering
OR.ON.61	Zeroual afaf <i>afaf.zeroual@univ-biskra.dz</i>	Influence of Glass Fiber Reinforcement on Desiccation Cracking Behavior of Clayey Soils Masmoudi amina, Bouaziz ahmed, Feia sadok, Dadda abdelali <i>Topic 4: Geotechnical Engineering</i>
OR.ON.58	Berkani moulaydriss <i>berkanimoulaydriss@yahoo.com</i>	Improving Granular Pavement Layers Using Valorized Local Waste Materials / <i>Topic 4: Geotechnical Engineering</i>
OR.ON.26	Djabri mohamed <i>mohamed.djabri@univ-tebessa.dz</i>	Effect of Backfill Cohesion on the Offset Distance of Two-tiered GRSWall: Numerical Investigation Farik ali, Gasri ahlem <i>Topic 4: Geotechnical Engineering</i>
OR.ON.01	Benmerabet oussama <i>oussabenmer@gmail.com</i>	3D Numerical Modeling of Rigid Inclusion-Improved Soft Soil under Cyclic Loading Bendaas azeddine <i>Topic 4: Geotechnical Engineering</i>
OR.ON.81	Feknous hadjer <i>h2620605@gmail.com</i>	Prédiction par intelligence artificielle du comportement du sable renforcé par fibres de verre basée sur des résultats expérimentaux Zerrouki amina-Mounira, Boukefoussa Elroul abdelnacer <i>Topic 4: Geotechnical Engineering</i>
OR.ON.88	Khiatine mohamed <i>khiatine.mohamed@univ-medea.dz</i>	Site-Specific CPT–PMT Correlations Developed Using Artificial Intelligence for Alluvial Deposits of Bejaïa Port / <i>Topic 4: Geotechnical Engineering</i>
OR.ON.106	Siyoucef amina	Valorisation des sédiments de barrages dans les Travaux Publics / <i>Topic 4: Geotechnical Engineering</i>

OR.ON.110	CHOUNGACHE Belgacem b.choungache@univ-djelfa.dz	Contribution à la stabilisation des sols argileux par la valorisation de pneus usagés et de sable de dune: Étude expérimentale et numérique. BOUSSOUAR Ali , Bensaada Abdelhalim , ZAITRI Rebih <i>Topic 4: Geotechnical Engineering</i>
OR.ON.141	Fatma Zohra chamma f.chamma22@univ-chlef.dz	Effect of fine brick waste powder on the shear response of chlef sand Mehdi missoum Benziane, Flitti abdelhamid, Della noureddine <i>Topic 4: Geotechnical Engineering</i>
OR.ON.117	Oubaida Aiche obaidamedia53@gmail.com	Advanced Machine Learning Models for Estimating Soil California Bearing Ratio Amal. Medjnoun , Mohamed. Khatine, Ramdane. Bahar <i>Topic 4: Geotechnical Engineering</i>
OR.ON.148	Naga linda nagadoc0952@gmail.com	Mechanical and microstructural response of a geosynthetic exposed to degradation mechanisms in geotechnical applications Chikhaoui mohamed, Cherifi farid ,Hocini yousra, Khelifi mossedek, Bouakraz hamza, Djerbal lynda <i>Topic 4: Geotechnical Engineering</i>
OR.ON.145	BeziH kamel k.beziH@univ-batna2.dz	Hydro-Mechanical Interaction Between Lake Water and Pavement Subgrade: A Numerical Study / <i>Topic 4: Geotechnical Engineering</i>
OR.ON.115	DJENIDI chahinaz chahinaz_djenidi@univ-biskra.dz	A python-Based Tool for Calculating Soil Bearing Capacity / <i>Topic 4: Geotechnical Engineering</i>
OR.ON.155	Bait abdeldjallile bait.abdeldjallile@univ-medea.dz	Numerical study on natural convection of air in an asymmetrically heated vertical channel. Korichi abdelkader <i>Topic 2: Sustainable Development and Energy</i>
OR.ON.86	Tioua tahar tahar.tioua@gmail.com	Simulation numérique de l'effet du boulonnage latéral sur la stabilité d'un tunnel bitube Djehader djamel <i>Topic 6: Infrastructure, Safety, and Specialized Practices</i>
OR.ON.71	Brougui marwa maroimaroi1997m@gmail.com	Non-Destructive Evaluation of Structural Risk and Buckling Resistance in Timber Piles Andor krisztián, Szabó péter <i>Topic 6: Infrastructure, Safety, and Specialized Practices</i>
OR.ON.85	Baghzim hassiba hassiba.baghzim@usthb.edu.dz	Seismic-Induced Deformation and Shear Stress Distribution in a Dike / <i>Topic 4: Geotechnical Engineering</i>



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14:00 – 17:00

ONLINE ORAL ROOM 06

08th APRIL 2026

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SCIENTIFIC MEMBERS:

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Prof. KERNOU Nassim

Dr. SLIMANI Rachid

Link  : <https://meet.google.com/ucb-vchk-dqw>

Code	Author email	Title Co-authors Topic 3: Advanced Construction Materials & Structures
OR.ON.153	Takhi kaouthar k.takhi@cu-elbayadh.dz	Limestone Calcined Clay Cement–Based Self-Compacting Equivalent Mortar: Fresh and Mechanical Performance Bouhamou nase Eddine, Bouziani tayeb, Kiboub mohamed Yacine, Cherifi ryma Hibat Errahman <i>Topic 3: Advanced Construction Materials & Structures</i>
OR.ON.154	Rebai kamel rebai.kamel@univ-bechar.dz	Wastewater Treatment and Use in Construction Oulakak mohammed <i>Topic 3: Advanced Construction Materials & Structures</i>
OR.ON.151	Taguia yahia t.yahia1992@gmail.com	Structural Performance and Flexural Enhancement of Shear Critical Over Reinforced RC T-Beams Strengthened with CFRP / <i>Topic 3: Advanced Construction Materials & Structures</i>
OR.ON.157	Bouabaz amel amel.bouabaz@univ-skikda.dz	AMELIORATION DES PROPRIETES MECANIQUE DU BGP PAR LA POUDRE DE CERAMIQUE / <i>Topic 3: Advanced Construction Materials & Structures</i>
OR.ON.158	Ouadah abbes ouadahabbes850@gmail.com	Dynamic Behavior Analysis of FGM Beams (P-FGM and S-FGM) under Free Vibration / <i>Topic 3: Advanced Construction Materials & Structures</i>
OR.ON.159	Hamda malek malekhamda39@gmail.com	Mechanical Performance of High-Performance Concrete Incorporating Silica Fume and Polypropylene Fibers / <i>Topic 3: Advanced Construction Materials & Structures</i>
OR.ON.99	Guerdouh amal guerdouh.amel@univ-ouargla.dz	Synthesis and Characterization of Bidentate Schiff Base Derived from 1-Amino-2-Chlorobenzene Hacini zineb, Kachi sacia <i>Topic 3: Advanced Construction Materials & Structures</i>
OR.ON.100	Marouane amrane	The influence of 5% SBR latex on the permeability of NaOH in limestone mortar treated with dune sand. Zoubir makhloufi, Mohammed omrane <i>Topic 3: Advanced Construction Materials & Structures</i>

OR.ON.112	BERKANE Fatiha <i>fatiha.berkane@univ-batna2.dz</i>	Simulation thermo-mécanique des poutres en béton armé sous température élevée à l'aide d'Abaqus BOUGLADA Mohammed salah , SALEM Khalil <i>Topic 3: Advanced Construction Materials & Structures</i>
OR.ON.162	Hamza Hasnaoui <i>a.hasnaouihamza26@hotmail.com;</i>	Study of the effect of the ratio and length of alfa fibers on the water penetration depth in fiber-reinforced self-compacting concrete Basma SAMET , Ali SDIRI <i>Topic 3: Advanced Construction Materials & Structures</i>
OR.ON.143	Lakhal abdenn our <i>a.lakhal97@univ-chlef.dz</i>	Fire and Buckling in Portal Frames: A Comparative Weight Optimization of IPE/RHS Sections Bougara abdelkader <i>Topic 3: Advanced Construction Materials & Structures</i>
OR.ON.146	Marouane amrane <i>mer.amrane@lagh-univ.dz</i>	Impact of dune sand on the final density of mortars composed of limestone sand Zoubir makhloufi, Mohammed omrane <i>Topic 3: Advanced Construction Materials & Structures</i>





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2026

08th - 09th APRIL 2026
OUARGLA- ALGERIA



09:00 – 12:00

ONLINE ORAL ROOM 07

09th APRIL 2026

MANAGER: KEDDAR Mohamed Nadir , *Email: keddar.nadir@gmail.com*

SCIENTIFIC MEMBERS:

Dr. Abdessalam MEKHERMECHE

Prof. Zakaria BELABED

Dr. Ali ABBACHE

Dr. Rachid RABEHI

Dr. Abdelkader LAAFER

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Google Meet

Code	Author <i>email</i>	Title Co-authors Topic 2: Sustainable Development and Energy
OR.ON.43	Djeldjli halima <i>djeldjlihalima@univ-adrar.edu.dz</i>	Explainable AI for Early Detection of Energy Inefficiency in Buildings Benatallah djelloul, Benatallah ali <i>Topic 2: Sustainable Development and Energy</i>
OR.ON.50	Boussaid ibrahim <i>boussaid.ibrahim01@gmail.com</i>	Grey Wolf Optimization-Based Sliding Mode Control Active and Reactive Power Regulation in Wind Energy Systems / <i>Topic 2: Sustainable Development and Energy</i>
OR.ON.57	Amri khaoula <i>khaoulaamri69@gmail.com</i>	Impact of using simulation tools in sustainable design process / <i>Topic 2: Sustainable Development and Energy</i>
OR.ON.63	Bakhadda roqiya <i>bakha.roukia@univ-adrar.edu.dz</i>	Integrated thermophyso-chemical characterization of Adrar clay: towards a roadmap for applications in geotechnical, building materials and environmental management Driss Djafari djafari, Boumediene bakhadda, Charifa benabdallah <i>Topic 2: Sustainable Development and Energy</i>
OR.ON.72	Merzougui lina <i>lina.merzougui@univ-usto.dz</i>	Optical Characterization and Fabrication Protocol for Optimized ZnO/P3HT Hybrid Organic-Inorganic Heterostructures Souidi mohamed Abdou <i>Topic 2: Sustainable Development and Energy</i>
OR.ON.24	Lakehal bachir Hussein <i>b.lakehal@cu-elbayadh.dz</i>	Eco-Friendly Self-Compacting Lightweight Mortar Incorporating Recycled Rubber as Sand Replacement. Guehlouz imed <i>Topic 2: Sustainable Development and Energy</i>

OR.ON.38	Abderraouf bouramdane bouramdane1998@gmail.com	Evaluation of Solar Irradiance on Tilted Surfaces Considering the Effects of Wind Speed and Humidity in the Algerian Sahara / Topic 2: Sustainable Development and Energy
OR.ON.40	Ferhi hocine hferhi@usthb.dz	Experimental and Numerical Study of Unreinforced Limestone Masonry wall / Topic 2: Sustainable Development and Energy
OR.ON.10	Salim karim k.salim@univ-tissemsilt.dz	Analytical and Numerical Study of the Single-Diode Photovoltaic Model in MATLAB: Effects of Physical Parameter Variations / Topic 2: Sustainable Development and Energy
OR.ON.94	Ferkous saci Abdelhakim s.ferkous@univ-boumerdes.dz	Sustainable Enhancement of Asphalt Mixtures Using Agricultural Waste: Creep Performance Evaluation Kahlouche ramdane Topic 2: Sustainable Development and Energy
OR.ON.95	Lylia meziane l.meziane@lagh-univ.dz	Sustainable Lightweight Aggregates for Enhanced Thermal and Mechanical Performance of Concrete: A Comparative Assessment Ziregue ahmed, Ghernouti youcef Topic 2: Sustainable Development and Energy
OR.ON.83	Souidi mohamed Abdou mohamedabdou.souidi@univ-saida.dz	Python-Based Computational Analysis for Optimal Thin Film Characterization in Hybrid Solar Cell Materials Merzougui lina Topic 2: Sustainable Development and Energy
OR.ON.113	Bah Dahmane dahmane.bah@univ-boumerdes.dz	Hydrogen Energy Exploration Potential and Geological Controls: Comparative Assessment of Mauritania and Mali Basins Leila Aliouane Topic 2: Sustainable Development and Energy
OR.ON.97	Outmoune nadjat n.outmoune@univ-alger.dz	Symbiose Créative : Vers une méthodologie de co-conception architecturale pilotée par l'IA générative et l'analyse de performance en temps réel / Topic 2: Sustainable Development and Energy
OR.ON.98	Guerboub Ouahiba ouahiba.guerboub@univ-bejaia.dz	Synergie du BIM et de l'Intelligence Artificielle pour la performance énergétique et la durabilité des bâtiments intelligents 4.0 : État de l'art et perspectives / Topic 2: Sustainable Development and Energy
OR.ON.101	Tebbakh Elmoataz elmoataz.tebbakh@univ-batna2.dz	Third-Order Sliding Mode Control for Robust Wind Energy Harvesting in Grid-Connected PMSG-Based WECS under Uncertain Wind Conditions Belkaid rahma Topic 2: Sustainable Development and Energy
OR.ON.114	Chahrazed MEBARKI chahra_meb@outlook.fr	Assessment of Indoor Thermal Comfort and Natural Gas Consumption in a Building with Variable Refrigerant Flow (VRF) System: A Simulation Study Using EnergyPlus and BIM workflow Integration Adel Mohamed Ben Aissa TIDADINI Topic 2: Sustainable Development and Energy
OR.ON.149	Guermat zouhir guermat.zouhir@gmail.com	Optimal positioning of a bio-based phase change material layer in multilayer building walls under different Algerian summer climates Kabar Yassine, Alliche Mohamed Amine, Boukelia Takiy Eddine Topic 2: Sustainable Development and Energy
OR.ON.116	Karim SALIM k.salim@univ-tissemsilt.dz	Analytical and Numerical Study of the Single-Diode Photovoltaic Model in MATLAB: Effects of Physical Parameter Variations Mohamed el fatah NEHAL Topic 2: Sustainable Development and Energy



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ONLINE POSTER ROOM 01

08th APRIL 2026

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Dr. Ismail LAYADI

Dr. Amal GUERDOUH

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Google Meet

Code	Author <i>email</i>	Title Co-authors <i>Topic</i>
P.ON. 01	Bahloul nour Elhouda <i>nourelhouda.bahloul@univ-bejaia.dz</i>	A Geotechnical–Machine Learning Framework for Rock Fragmentation Prediction and Blast Design Optimization: A Case Study of the Ain El Kebira limestone quarry / <i>Topic 4: Geotechnical Engineering</i>
P.ON. 02	Tiab chakib <i>tiabchakib@gmail.com</i>	A Novel Approach to Predict Interfacial Stresses in Steel Beams with FRP Reinforcement: Incorporating Shear Lag and Tapered Plate Design. Bouchikhi aboubaker Seddik, Belhocine malika, Kahlouche ramdane, Chatbi mohammed <i>Topic 3: Advanced Construction Materials & Structures</i>
P.ON. 03	Benaddache lysa <i>lysa.benaddache@univ-bba.dz</i>	Alkaline Treatment Optimization of Date Palm Petiole Fibers for Enhanced Mechanical Performance in Biocomposites Belkadi ahmed Abderraouf, Berkouche amirouche, Aggoun salima <i>Topic 3: Advanced Construction Materials & Structures</i>
P.ON. 04	Asseli ayman Elouanas <i>a.asseli@univ-ehlef.dz</i>	Analytical Evaluation of Cohesion Improvement in Geocell-Reinforced Sand Benessalah ismail, Hamrouni adam <i>Topic 4: Geotechnical Engineering</i>

P.ON. 05	Mohammed Houssemeddine Eddine guerine <i>guerine.mohammedhoussemeddine@cuniv-naama.dz</i>	Analytical Study of an Isotropic Thick Plate under Uniform Loading / <i>Topic 3: Advanced Construction Materials & Structures</i>
P.ON. 06	Fahsi bouazza <i>hbfahsi@gmail.com</i>	Approche analytique et numérique du comportement à long terme des poutres en béton armé renforcées par FRP Fahsi asmaa , Bekkaye tahar Hacen Lamine, Benahmed abdelillah <i>Topic 3: Advanced Construction Materials & Structures</i>
P.ON. 07	Chelahi Chikr sara <i>sara.chelahi.chikr@gmail.com</i>	Approche non linéaire de la flexion cylindrique des plaques minces à propriétés variables Fouad bourada, Abdelouahed tounsi <i>Topic 3: Advanced Construction Materials & Structures</i>
P.ON. 08	Asma bouhrour <i>asmbouhrour@gmail.com</i>	Artificial Intelligence in Soil Liquefaction : A Bibliometric Analysis of Research Trends from 2015 to 2025 / <i>Topic 4: Geotechnical Engineering</i>
P.ON. 09	Khiatine mohamed <i>khiatine.mohamed@univ-medea.dz</i>	Characterization of Expansive Clays and strategies for Reducing Swelling in the Medea Region / <i>Topic 4: Geotechnical Engineering</i>
P.ON. 10	Tablit sarra <i>tablitsara@gmail.com</i>	Chemically Modified Arundo donax Fiber-Reinforced PLA/PP Waste Biocomposites for FDM-Based Construction Applications Hachaichi amina <i>Topic 3: Advanced Construction Materials & Structures</i>
P.ON. 11	Kernou nassim <i>nassim.kernou@univ-bejaia.dz</i>	Comparative study of reinforced concrete columns and hollow sections filled with reinforced concrete in the non-linear domain / <i>Topic 3: Advanced Construction Materials & Structures</i>
P.ON. 12	Bakhadda boumediene <i>bak.boumediene@univ-adrar.edu.dz</i>	Comportement en Flexion des Plaques CNTRC : Étude Paramétrique de la Distribution des Nanotubes et de la Géométrie de la Plaque Bachir Bouiadjra mohamed, Roqiya bakhadda <i>Topic 3: Advanced Construction Materials & Structures</i>
P.ON. 13	Khalfa mohamed Lamine <i>mohamed-lamine.khalfa@univ-annaba.dz</i>	Contribution à l'évaluation de la sécurité des barrages en terre par simulation numérique FEM Meksaouine mohamed <i>Topic 5: Water and Environmental Management</i>
P.ON. 15	Benhaoua ahmed Adel <i>ahmedadel.benhaoua@univ-relizane.dz</i>	Des déchets avicoles aux biosorbants naturels : une solution durable pour le traitement des eaux industriels Saker Ouargli rachida, Bourecheche zohra, Cherrak rachida <i>Topic 5: Water and Environmental Management</i>
P.ON. 16	Brahimi ahmed <i>Ahmed.brahimi@usthb.edu.dz</i>	Détections et suivi de la pollution marine dans la baie d'Alger : image satellitaire Landst2 Belaroui abdelhakim, Zerrouki chawki <i>Topic 5: Water and Environmental Management</i>
P.ON. 17	Ouadah abbes <i>ouadahabbes850@gmail.com</i>	Dynamic Behavior Analysis of FGM Beams (P-FGM and S-FGM) under Free Vibration / <i>Topic 3: Advanced Construction Materials & Structures</i>
P.ON. 18	Mohad Seghir lakhdari <i>ms.lakhdari@univ-djelfa.dz</i>	Dynamic Structural Health Monitoring of Bridges Using Piezoelectric Sensors Enhanced by Artificial Intelligence Techniques: State of the Art and Research Perspectives. / <i>Topic 1: AI Integration in Civil Engineering</i>
P.ON. 20	Mebarki fatima Zohra <i>mebarkifatimazohra14@gmail.com</i>	dynamical behavior of porous laminated composite structures Mehala tewfik, Addou farouk Yahia <i>Topic 3: Advanced Construction Materials & Structures</i>

P.ON. 22	Dehane sarah sarra.dhn@gmail.com	Effect of thermally Treated Eggshell powder on Cement Mortar Properties / <i>Topic 3: Advanced Construction Materials & Structures</i>
P.ON. 23	Smakdji nafila nafila.smakdji@univ-jjel.dz	Energy and exergy investigation of industrial coal debris effect on solar still / <i>Topic 2: Sustainable Development and Energy</i>
P.ON. 199	Bekkar fadila fadilabekkar0@gmail.com	Preparation and characterization of sodium alginate/modified clay composite beads for water treatment Saad fatima, Meghaber rachid, Bettaher faiza <i>Topic 5: Water and Environmental Management</i>
P.ON. 200	REZIG Djebaili redj2020@gmail.com	The effect of steam curing on the mechanical and physical properties of concrete KHELLOU Abderrezzak ,CHENNOUF Sabrina , SADIKI IBTIHAL <i>Topic 3: Advanced Construction Materials & Structures</i>





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08th APRIL 2026


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Dr. FEZZIOUI NAIMA

Dr. Abdelkader LAAFER

Link  : <https://meet.google.com/hia-ouoc-zux>

Code	Author <i>email</i>	Title Co-authors <i>Topic</i>
P.ON. 24	Ziane yousra <i>yziane@usthb.dz</i>	Engineering performance and process optimization of cementitious matrices incorporating petroleum drill cuttings Abeoub zineb, Bensebia ouahida, Abdelli kamal, Boumehdi Toumi leila <i>Topic 5: Water and Environmental Management</i>
P.ON. 25	Ouir fatma Zohra <i>ouir.fatmazohra@univ-ouargla.dz</i>	Enhancing Agricultural Water Management Using Satellite Remote Sensing Data Zegait rachid, Ammari abdelhadi <i>Topic 5: Water and Environmental Management</i>
P.ON. 26	Berkak hichem <i>h.berkak@lagh-univ.dz</i>	Etat de l'art sur les méthodes de prédiction basées sur les techniques de l'IA pour les bétons géopolymères et autoplaçants Makhloufi zoubir, Abbache ali, Rachid rabehi, Chenafi mostafa Habib <i>Topic 1: AI Integration in Civil Engineering</i>
P.ON. 28	Layadi ismail <i>ismail.layadi@univ-tebessa.dz</i>	Evaluating the Seismic Performance of a Cement Plant: A Case Study on Functional Vulnerability / <i>Topic 6: Infrastructure, Safety, and Specialized Practices</i>
P.ON. 29	Bensaber ahmed <i>ahmed.bensabergcv@gmail.com</i>	Évaluation des facteurs d'influence sur les CND : Vers un modèle de correction tenant compte de l'état de contrainte. / <i>Topic 2: Sustainable Development and Energy</i>
P.ON. 30	Chergui mohammed <i>chergui.mohammed@univ-bechar.dz</i>	Évaluation et gestion durable de la qualité des eaux souterraines dans les zones arides du sud-ouest algérien Bendida ali, Mekkaoui abderrahmane <i>Topic 5: Water and Environmental Management</i>
P.ON. 31	Lousdad aymen Aziz <i>lousdad.aymenaziz@cuniv-naama.dz</i>	Experimental and Comparative Study of Microstructural Evolution and Mechanical Behavior of Joints Produced by FSW, Underwater FSW and Friction Stir Spot Welding FSSW. Khatir tawfiq, Menni younes <i>Topic 3: Advanced Construction Materials & Structures</i>
P.ON. 32	Layadi ismail <i>ismail.layadi@univ-tebessa.dz</i>	Failure Mechanisms of Masonry Infilled RC Frames: An Experimental Study Using Digital Image Correlation / <i>Topic 3: Advanced Construction Materials & Structures</i>

P.ON. 33	Hirane hicham hicham.hirane@usthb.edu.dz	Free vibration behavior of porous functionally graded sandwich plates with power-law and sigmoid material gradation via a simple higher-order shear deformation theory Benounas soufiane <i>Topic 3: Advanced Construction Materials & Structures</i>
P.ON. 34	Guettioui merouane m.guettioui@univ-chlef.dz	Gradient Boosted Decision Trees for Accurate Strength Prediction of Cement Kellouche yassmina, Bougara abdelkader <i>Topic 1: AI Integration in Civil Engineering</i>
P.ON. 35	Senadi imene i.senadi@ensh.dz	Harnessing Hydrological Modeling and Spatial Data for Surface Runoff Assessment in semi-arid regions Zeroual ayoub, Meddi hind <i>Topic 5: Water and Environmental Management</i>
P.ON. 36	Atef benlamnour benlamnour.atef@univ-ouargla.dz	Historical GIS-Based IDW Mapping of the Phreatic Aquifer in Oued Souf Sahraoui bachir, Benhamida slimane, Zeddouri aziez, Bouziane nawel, Miloudi abdelmonem, Saggai sofiane <i>Topic 5: Water and Environmental Management</i>
P.ON. 37	Lebbaz mohamed Riad lebbaz.mohamedriad@univ-ouargla.dz	Identification of the Contributive Sub-Watershed for Urban Flood Risk: Case of Ouargla, Algeria. Mechri laid <i>Topic 5: Water and Environmental Management</i>
P.ON. 38	Belhocine malika malika.belhocine@ummto.dz	Influence of the percentage of longitudinal reinforcement and the compressive strength of concrete on the global ductility of reinforced concrete columns. Hellal ourida, Messas amar, Chatbi mohammed, Bouafia youcef, Rahmouni ouassim <i>Topic 3: Advanced Construction Materials & Structures</i>
P.ON. 39	Boukemache khaoula boukemachekhaoula@gmail.com	Integration of Climatic Variables for Accurate Evaporation Prediction Using SVM: Application to Cheffia Dam Marouf nadir <i>Topic 5: Water and Environmental Management</i>
P.ON. 40	Chami said s.chami@enstp.edu.dz	Machine Learning–Based Selection of Pushover Damage Indices for Post-Seismic Assessment of Reinforced Concrete Buildings Chikh benazouz, Mebarki ahmed <i>Topic 1: AI Integration in Civil Engineering</i>
P.ON. 41	Maafa said s.maafa@univ-boumerdes.dz	Mathematical Relationship between Compressive Strength and Porosity of Porous Ceramics Maafa said <i>Topic 3: Advanced Construction Materials & Structures</i>
P.ON. 43	Chahta abderrahim a.chahta@lagh-univ.dz	Mechanical characterisation of cementitious mortar incorporating binary sand (limestone and dune) under sulfuric acid (H ₂ SO ₄) attack Chahta abderrahim <i>Topic 3: Advanced Construction Materials & Structures</i>
P.ON. 45	Rahmani kheira kheira.rahmani@etu.univ-mosta.dz	Metaheuristic Optimization of Floor Diaphragm Configuration to Enhance Building Seismic Performance Bahar sadek, Djilali nassira, Amamra laid, Zitouni fouzia <i>Topic 1: AI Integration in Civil Engineering</i>
P.ON. 46	Mouas zahira zahiramouas@univ-blida.dz	Moisture Influence on Free Vibration Behavior of CNT-reinforced Laminated composite plates Tiberkak rachid, Ezzraimi madjid, Lazar mohamed Essedik <i>Topic 3: Advanced Construction Materials & Structures</i>
P.ON. 197	Sandali messaoud sandalimessaoud@gmail.com	Energy-Efficient Clay Brick Production Using Solar Thermal Techniques Boubekri abdelghani, Mennouche djamel <i>Topic 2: Sustainable Development and Energy</i>
P.ON. 198	Benamrani mhammed BENAMRANI.M'hamed@univ-bechar.dz	Etude de suivi et d'optimisation de fonctionnement d'une station d'épuration par filtre plante en milieu aride : cas de la region d'adrar / <i>Topic 5: Water and Environmental Management</i>



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08th APRIL 2026

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Dr. Ali Haider CHAHED

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Code	Author email	Title Co-authors Topic
P.ON. 48	Bekkar hanan <i>hanan.bekkar@univ-tebessa.dz</i>	On the Performance of BBMSEWs under Self-Weight: Effect of Overlapping Reinforcement Djabri mohamed, Gasri ahlem <i>Topic 4: Geotechnical Engineering</i>
P.ON. 49	Oulad Brahim sabrina <i>sabrinaouladbrahim@gmail.com</i>	Photocatalytic Degradation of a Cationic Dye Using ZnO Nanoparticles: Process Optimization by RSM Benouci khedidja, Said mohammed Elamin, Hamel marwa Lamise, Benouis bochra, Hadil Kheira <i>Topic 5: Water and Environmental Management</i>
P.ON. 50	Abdellah kadri <i>kadridet@gmail.com</i>	Power System Stability Enhancement Using Artificial Intelligence MPC Controller for STATCOM Abdelkarim belbali, Ali ouahab, Abdellah laidi <i>Topic 2: Sustainable Development and Energy</i>
P.ON. 51	Hamdaoui khaled <i>k.hamdaoui92@univ-chlef.dz</i>	Predicting Soil Swelling Potential with Incomplete Data Using Machine Learning Sari Ahmed billal, Guellil mohamed Elhebib , Ghrici mohamed <i>Topic 1: AI Integration in Civil Engineering</i>
P.ON. 52	Attaf aicha <i>saoudassinat@gmail.com</i>	Produced Water Reuse and Environmental Performance in Oil Reservoir Injection Systems: Numerical Modeling Applied to the Hassi Messaoud Field Zegait rachid <i>Topic 5: Water and Environmental Management</i>
P.ON. 53	Bougara hanane <i>bougara.hanane@univ-bechar.dz</i>	Rainfall Spatial Distribution and Physiographic Analysis of a Watershed Using GIS Tools Mebarki saliha <i>Topic 5: Water and Environmental Management</i>
P.ON. 54	Merniz mohamed <i>m.merniz@lagh-univ.dz</i>	Réduction de la consommation énergétique des bâtiments en climat aride grâce à un béton de sable léger : étude thermo-mécanique et simulation énergétique

Laoubi hamza Laoubi, Meddah abdelaziz, Bederina madani

Topic 2: Sustainable Development and Energy

P.ON. 55 Lemsara foudhil

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Seismic fragility of concrete pier based on monte-carlo simulation and three parameter lognormal distribution comparison

Yahiaoui djarir, Saadi mohamed, Bouzid tayeb

Topic 4: Geotechnical Engineering

P.ON. 56 Ali bousouar

bousouarali83@gmail.com

Simulation et validation d'un amortisseur à mase accordé pour _structure sous chargement sismique _ /

Topic 3: Advanced Construction Materials & Structures

P.ON. 57 Boukhamla moussa

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Smart Scale Management in the Energy Sector: Mini-Review of BaSO_ Precipitation Drivers and Machine Learning Opportunities

Arbaoui med Ali, Touahri abdeljaber, Mahboub mohamed Abdelbasset, Djouahi abedeldjalil

Topic 2: Sustainable Development and Energy

P.ON. 58 Zairi seyyid-Ahmed

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Study of the Behavior of Chlef Sandy Soil Treated with a Cement–Silica Fume Combination

Missoum Benziane mehdi, Mekkakia Maaza merouane, Arab ahmed

Topic 4: Geotechnical Engineering

P.ON. 59 Belhimer insaf

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Synthèse et caractérisation d'un électrolyte solide « La_{9.33}Si₆O₂₆ » pour piles à combustible

Amira abderrezek

Topic 2: Sustainable Development and Energy

P.ON. 61 Nezechaib dounia Zad

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Valorisation d'un matériau naturel pour l'élimination des colorants textiles

Dahmani khedidja , Boucherdoud ahmed

Topic 5: Water and Environmental Management

P.ON. 62 Bedadi laid

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Valorisation durable des sables d'oueds dans la formulation du béton : caractérisation et performances physico-mécaniques

Logbi abdelaziz, Kaab mohamed Zohier, Djedid tarek, Mani mohamed

Topic 3: Advanced Construction Materials & Structures

P.ON. 63 Merrakchi mohamed Sadak

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Valorization of Wood Sawdust in the Development of a Sustainable Lightweight Sand Concrete

Benammar benkhadda

Topic 3: Advanced Construction Materials & Structures

P.ON. 64 Limane abdelmounaim

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Weight of Evidence Approach for Soil Erosion Susceptibility: Insights from Bouhamdane Watershed, Northeastern Algeria

Bouamrane ali, Benmamar saâdia

Topic 5: Water and Environmental Management

P.ON. 65 Zabel khalda

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Wellbore Stability Analysis Using Well Log Data for Mud Weight Optimization

/

Topic 4: Geotechnical Engineering

P.ON. 67 BERKANE Fatiha

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Étude numérique du comportement d'une poutre en béton exposée à un incendie normalisé selon la courbe ISO 834

BOUGLADA Mohammed salah , Laib Tariq

Topic 3: Advanced Construction Materials & Structures

P.ON. 68 Benayoun Fadila

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Mechanical Behavior and Safety Assessment of Reinforced Soil Retaining Systems

Rehab Bekkouche Souhila

Topic 4: Geotechnical Engineering

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Gestion durable des ressources d'eau en Intelligence artificielle

BELABBAS Amina , Tabet Amina , Chaima Salmi

P.ON. 195 **Guendouzi awatif**

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Lightweight Deep Learning Model for Real-time Crack Detection on Embedded Inspection Systems

Guendouzi fatima, Ramou nai, Chetih nabil, Boutiche yamina, Khorchef mohammed, Sahnoun mohamed

Topic 1: AI Integration in Civil Engineering

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An experimental study of the properties of bitumen modified with coffee waste powders

Nabil Kebail ,Abdessalam Mekhermech

Topic 3: Advanced Construction Materials & Structures

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Improving the efficiency of PTC solar concentrators through absorber tube dimensions and shapes

Intissar Achouri ,Mohammed Mostepha Belhadj , Mouhamed Elbar SoudaniSoumia Zegdou

Topic 2: Sustainable Development and Energy

P.ON. 192 **Bouarroudj Mohamed**

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The Integration of AI in Water Alternating Gas Injection Technique

DJEBBAS Faycal

Topic 5: Water and Environmental Management



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08th APRIL 2026

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P.ON. 76	Hana BERGHOUTI <i>hanaberghouti0550@gmail.com</i>	Effets hygrothermique et de la porosité sur la réponse dynamique des nano-poutres à gradient fonctionnel Fouad BOURAADA , Amina BENKHEDDA, Abdelouahed TOUNSI <i>Topic 3: Advanced Construction Materials & Structures</i>
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P.ON. 82	Hachemane Djelloul hadjhachemi182@gmail.com	Films: synthesis, physico-chemical properties and uses for the environment Djelloul kadari ,ali sadek <i>Topic 5: Water and Environmental Management</i>
P.ON. 83	Benabid Ibtissam benabid.g@yahoo.com	Chalcogenide Thin Films for Solar Energy: Growth and Properties via Spray Pyrolysis Technique. / <i>Topic 2: Sustainable Development and Energy</i>
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P.ON. 110	Mohammed Bouamri <i>bouamrimohammed25@gmail.com</i>	environmental impacts of seawater desalination by reverse osmosis / <i>Topic 5: Water and Environmental Management</i>
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Assessment of Groundwater Quality using Water Quality Indices in the Wadi Righ Area, Algeria

ener ehnaz

Topic 5: Water and Environmental Management

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Innovative Approaches for Water and Environmental Management Based on Waste-Derived Biosorbents

Bekkar fadila, Bounaceur boumediene

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