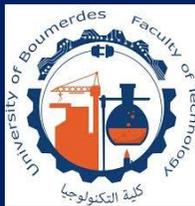




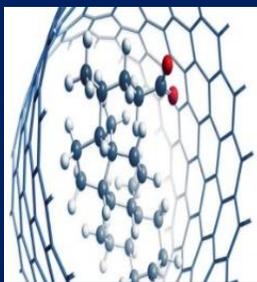
PEOPLE'S DEMOCRATIC REPUBLIC OF ALGERIA
 MINISTRY OF HIGHER EDUCATION AND SCIENTIFIC
 RESEARCH
 University of M'hamed Bougara of Boumerdes
 Faculty of Technology



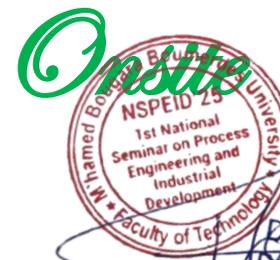
National Seminar on Process Engineering and Industrial
 Development (NSPEID'25)
 Hybrid Onsite-Online



Boumerdes on November 5th and 6th, 2025



Program



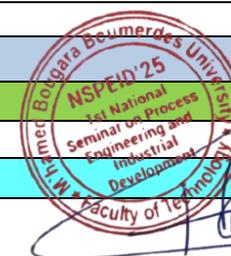
Seminar Chair
 DR. F. BENHIAOUA
 DR. S. TOUZOUIRT



1st National Seminar on Process Engineering and Industrial Development
Boumerdes, November 05-06, 2025



| Wednesday, November 5, 2025 (Morning) | | | |
|--|---|--|-------|
| 8H00 - 9H00 | Welcoming participants and check in | | |
| 9H00-9H30 | Opening Ceremony | | |
| | A word from Dr. TOUZOUIRT Saida the President of the NSPEID'25 Conference. | | |
| | A word from Pr. SAIDI Mohamed the Dean of Faculty of Technology - University of Boumerdes. | | |
| | A word from Pr. ABDELBAKI Nouredine the Rector of the Mhamed Bougara - University of Boumerdes. | | |
| Session chairs Pr. AKSAS Hamouche Pr. FERNANE Farida | | | |
| 09H30-10H15 | Lecture 1 : Dr. BELKASMI Djamel (Artificial Intelligence in Process Engineering: From Smart Optimization to Sustainable Industry) | | |
| 10H15-11H00 | Lecture 2 : Dr. ABERBACHE Nefissa (Quand les sciences pharmaceutiques se rencontrent pour transformer l'innovation en solutions industrielles) | | |
| 11H00-11H45 | Lecture 3 : Pr. BENAAMOUM Amar (L'empreinte carbone dans notre alimentation, contraintes et perspectives) | | |
| 11H45-13H30 | LUNCH | | |
| Wednesday, November 5, 2025 (Afternoon) | | | |
| 13H30-14H45 | Oral Communications (Room 1 & Room 2) | | |
| Room 1 (TOPIC 2: Process Engineering of Materials and Polymers, Biomaterials, Nanomaterials, and Nanotechnology) | | | |
| Session chairs Dr. IGGUI Kahina Dr. ZIDI Naima | | | |
| 13H30-13H40 | Salima HOCINE | Synthèse, caractérisation et étude de gonflement d'un hydrogel HEC-G-POLY(AA-CO-AMPS)/ZNO | UMBB |
| 13H40-13H50 | Naima BOUDIEB | Synthesis and study of electrochemical behavior of PANI/(ZnO,ZrO2, TiO2)composite applied in anti-corrosion epoxy coatings | UMBB |
| 13H50-14H00 | Mssaid Bachir | Enhancing flexible steel-based solar cells: the technical role of tin films | UMBB |
| 14H00-14H10 | Allouane Ouiza | Influence of film thickness on the structural, optical, and photocatalytic properties of BiMnO ₃ thin films | USTHB |
| 14H20-14H45 | Debate | | |
| 14H45-15H00 | Coffee Break | | |
| 15H00-15H30 | Poster Session 1 | | |
| 15H30-16H30 | Oral Communications (Session 2) / On-Site | | |
| Room 2 (TOPIC 5: Recycling and Waste Recovery) | | | |



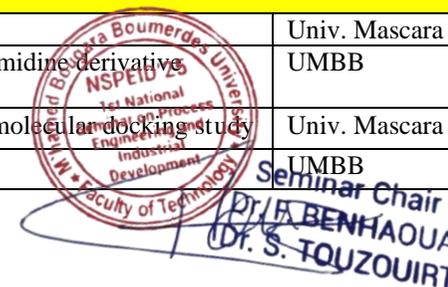
Seminar Chair

Dr. S. TOUZOUIRT

1st National Seminar on Process Engineering and Industrial Development
Boumerdes, November 05-06, 2025



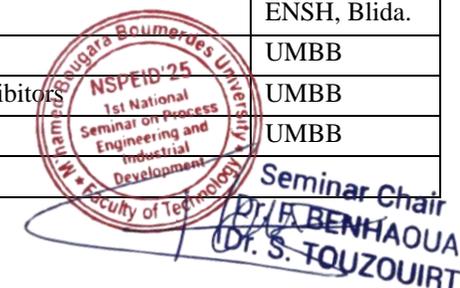
| Session chairs Dr. Azizi Assia Dr. STITI Nacera | | | |
|--|--|---|------------------|
| 13H30-13H40 | BOUCHAMA LEILA | Application des Systèmes d'Information Géographique à la gestion des déchets ménagers : cas de la commune de Bab El Oued, Alger | USTHB |
| 13H40-13H50 | Makhdoumi Hayet | Towards Circular Economy Practices in the Algerian Phosphate Sector: Valorization of Processing Wastes for Rare Earth Elements Recovery | ENSTI Annaba |
| 13H50-14H00 | Mounir Zerroukhat | Implementing selective collection of waste in Algeria: Experimental results from a pilot project | Blida University |
| 14H00-14H10 | Kord Affaf | Valorisation des coproduits de la transformation du poisson-chat africain (Clarias gariepinus) pour la production de biomolécules d'intérêt : Farine, collagène et gélatine | CNRDPA |
| 14H10-14H20 | Ait ahsene Fetta | Environmental Impact of Recycling Plastic Waste | UMBB |
| 14H20-14H45 | Debate | | |
| 14H45-15H00 | Coffee Break | | |
| 15H00-15H30 | Poster Session 1 | | |
| 15H30-16H30 | Oral Communications (Session 2) / On-Site | | |
| Room 1 (TOPIC 6: Simulation and Artificial Intelligence in Industry) | | | |
| Session chair Pr. MAZOUZ Hadj Moulay Ahmed | | | |
| 15H30-15H40 | Soraya Aidene | SMART MODELING TECHNIQUES FOR COMPLEX CHEMICAL MIXTURES | UMBB |
| 15H40-15H50 | Maroua Touzouirt | Modernization and Immigration Solutions for Heat Recovery Steam Generator in Ras Djinet Power Plant Using TIA Portal | UMBB |
| 15H50-16H00 | Hichem NEMOUCHI | Real-time short-term load forecasting using lstm with weather and historical load features | Sonelgaz |
| 16H00-16H10 | Islam Medjoudj | Convolutional autoencoder based health indicator construction for bearing remaining useful life estimation using anfis | USTHB |
| 16H10-16H20 | Warda Fella Belaid | Assessing the predictive performance of machine learning and deep learning models on azo-ether liquid crystal hplc columns | USTHB |
| 16H20-16H30 | Debate | | |
| Room 2 (TOPIC 1: Chemical, Pharmaceutical, and Food Processes) | | | |
| Session chairs Pr. HADJSADOK Abderlkader Dr. BOUKHIAR Aissa | | | |
| 15H30-15H40 | Besseboua Omar | A comparative study of the curative properties of ceratonia siliqua and punica granatum in rats | Univ. Mascara |
| 15H40-15H50 | Chikhi Sabah | Synthesis, characterization and antimicrobial activity of a schiff base ligand derived from ,4-diaminopyrimidine derivative (trimethoprim) and its palladium complex | UMBB |
| 15H50-16H00 | Besseboua Omar | Characterization of the antioxidant activity of Algerian punica granatum (sefri variety) combined with a molecular docking study | Univ. Mascara |
| 16H00-16H10 | BELAID Messaouda | First report of the study of the main factors promoting the crystallization of honey | UMBB |



1st National Seminar on Process Engineering and Industrial Development
Boumerdes, November 05-06, 2025



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|--|--|---|--------------|
| 16H10-16H20 | LARID Roza | Toward a healthier margarine: formulation with olive oil | UMBB |
| 16H10-16H30 | Debate | | |
| Thursday, November 6, 2025 (Morning) | | | |
| Session chairs Pr. BENAKMOUM Amar Pr. AKSAS Hamouche | | | |
| 9H00-9H45 | Lecture 1 : Pr. BENSOUICI Fayçal | | |
| 9H45-10H30 | Lecture 2 : Pr. BENOTMANE Benamar (Le bois : un matériau naturel au service de l'innovation scientifique) | | |
| 10H30-10H45 | Coffee Break | | |
| 10H45-11H15 | Poster Session | | |
| 11H15-12H30 | Oral Communications (Room 1 & Room 2) / On-Site | | |
| Room 1 (TOPIC 3: Renewable Energy and New Technology) | | | |
| Session chairs Pr. LAMRANI Nouara Dr. TOUBANE Mahdia | | | |
| 11H15-11H25 | Soumia Benredouane | High-performance nicop/graphene electrodes for sustainable hydrogen production via alkaline electrolysis | CRTSE |
| 11H25-11H35 | Ismail Benchebiba | Simulation of argon dielectric barrier discharge : the roles of surface reactions | Univ. Chlef |
| 11H35-11H45 | Azizi Salsabila | Qblade Simulation and 3D Printed Prototyping of a Scaled NREL Phase VI Wind Turbine for Laboratory Study | USTHB |
| 11H45-11H55 | Karima Benfadel | Photoelectrochemical conversion of CO ₂ into value-added chemicals: advances and perspectives using a Cu ₂ S@Sn catalyst for improved selectivity | CRTSE |
| 11H55-12H05 | Daimallah Ahmed | Effect of solar radiation on the flow behavior in a solar chimney power plant | UMBB |
| 12H05-12H15 | Farah Kaddouri | Study on a pilot project of a solar plant in south Algeria | |
| 12H15-12H25 | Imane DJOUABI | Influence of calcination on structural and electrokinetic properties of Green Synthesized NiO-ZnO Nanocomposite | ENS Alger |
| 12H25-12H40 | Debate | | |
| Room 2 (TOPIC 4: Environment and Water Treatment) | | | |
| Session chairs Pr. BENSOUICI Faycel Dr. MESSAID Bachir Eddine | | | |
| 11H15-11H25 | Khebizi Hafidha | Artificial recharge effectiveness of the water table by purified wastewater: case study of el oued, Algeria | ENSH, Blida. |
| 11H25-11H35 | Belloul Nabila | Elaboration et caractérisation mécanique dynamique d'un nanocomposite | UMBB |
| 11H35-11H45 | Fahim Hamidouche | Comparative Study on Corrosion Resistance of Chromium and Molybdenum Alloyed Steels Using Green Inhibitors | UMBB |
| 11H45-11H55 | Nacera Benouadah | Biodegradable biomaterial films derived from biomass sources | UMBB |
| 11H55-12H10 | Debate | | |



1st National Seminar on Process Engineering and Industrial Development
Boumerdes, November 05-06, 2025



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|-------------|-------------------------|
| 12H30-14H00 | Lunch |
| 14H00-14H30 | Check Out and Departure |

List of Poster Communication

Wednesday, November 5, 2025 (15H00-15H30)

Session chairs
Dr. RAHAL Foudil
Dr. LARID Rosa

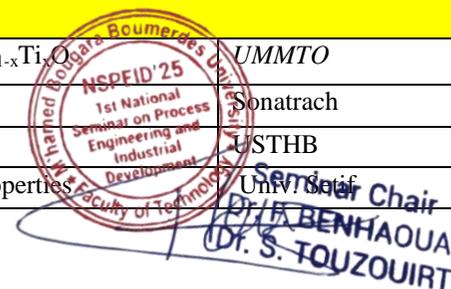
| | | | |
|---------|-----------------------|---|-------------------|
| T1-P-69 | Belaissa yahia | Elaboration and validation of new method for Metformin determination in Rat sample and its application in pharmacokinetic study | UYF Médèa |
| T1-P-52 | Benhaoua Fayrouz | Caracterisation physico-chimique des silices pharmaceutique | UMBB |
| T1-P-20 | Bousetla Ahlem | Phytochemical screening and reducing capacity of tree extracts of plant belong to the rosaceae family | Univ Constantine |
| T1-P-54 | BOUZEMBRAK Nesrine | Bromelain from Pineapple: Extraction, Applications, and By-Product Valorization | USTHB |
| T1-P-13 | Dahbia Amitouche | Adipic acid reinvented: green catalysis and emerging pharmaceutical potential | UMMTO |
| T1-P-10 | Haouli Bouziani Amina | Study of continuous catalyst regeneration reforming of CR 401 catalyst | USTHB |
| T1-P-60 | LARID Roza | Toward a healthier margarine: formulation with olive oil | UMBB |
| T1-P-17 | Lounas Ibtissem | Preparation , characterization and catalytic performance of COO/SIO2 catalysts : effect of the preparation solvant | USTHB |
| T1-P-68 | Meziane Akila | Geometrical and thermal effect on the toroidal vortex of a cell bioreactor | UMBB |
| T1-P-26 | Nabila Zaabat | Phytochemical characterization and antioxidant activity of the ethyl acetate extract of a satureja species. | Univ. Constantine |
| T1-P-30 | Razika Merabti | Conversion of isopropanol over modified copper catalysts | USTHB |
| T1-P-43 | Sahoui Feriel | Enhancing the extraction of rosemary essential oil through low-dose gamma irradiation | USTHB |
| T1-P-38 | Smail OUKIL | Élaboration traditionnelle de farine de riz et developpement d'un biscuit sans gluten pour les personnes atteintes de la maladie cœliaque | UMMTO |
| T1-P-34 | TOUZOUIRT Saida | Optimization of the extraction yield and purification of capsaicin extracted from algerian red chili peppers | UMBB |
| T1-P-57 | Yasser Bouchebcheb | Green synthesis of new (e)-3-methyl-6-((naphthalene-1-ylimino)methyl)benzo[d]thiazol-2(3H)-one schiff base, adme study | Annaba University |
| T3-P-7 | Saim Nabila | Predictive gaussian-polynomial modeling of tj discharges in hv insulators: from physical interpretation to design insights | UMMTO |
| T1-P-70 | SABBAGH ZINEB | Finite-Time Blow-Up and Stabilization of a Dynamical System | UMBB |



1st National Seminar on Process Engineering and Industrial Development
Boumerdes, November 05-06, 2025



| Session chairs Dr. MESSAID Bachir Eddine Dr. MOKRANE Zakia | | | |
|---|------------------------|--|----------------------|
| T2-P-83 | Bachir Eddine MESSAÏD | Uv irradiation effects on pmma-based photovoltaic electrodes | UMBB |
| T2-P-86 | CHEBBAH BOUZID | Recovery of mechanical strength and optical transmittance in sandblasted glass with sol-gel zirconia (ZRO ₂) coatings | UMBB |
| T2-P-65 | Djanette Blizak Meriem | Green strategies for the synthesis of nio and zno nanoparticles: towards sustainable nanotechnology | Université of Skikda |
| T2-P-10 | DORBANNE Ferial | Study and formulation of fuel oil IFO30 from heavy fuels IFO80, 180, 380 and diesel | university of Bouira |
| T2-P-66 | Fares Djematene | The influence of kaolin Content on the Physical and Mechanical Properties of Ceramic Floor Tiles | UMBB. |
| T2-P-79 | Farida Iachachene | Effect of core-to-shell ratio on natural convection of nano-epcm slurry in a square cavity | UMBB |
| T2-P-58 | Hani Hadjoudja | Preparation of magnesium ferrite (MgFe ₂ O ₄) nanoparticles by ultrasonic spray pyrolysis method | Univ. Sétif |
| T2-P-97 | IGGUI Kahina | A characterization study of biomaterials based on PHBV/PLA/Lignin | Univ. Annaba |
| T2-P-99 | LAMRANI Sabrina | Morphological and Electrochemical study of Ni ₉₀ Fe ₁₀ | UMBB |
| T2-P-50 | Meziane Akila | Characterization of swirling flows in an open enclosure of a cell bioreactor | USTHB |
| T2-P-90 | Ounissa Sadoun | Sustained valsatan release from polycaprolactone microspheres | |
| T2-P-52 | Salim Tebbakh | Electrochemical Study on the Synthesis Process of Co-Ni Alloy Nanoparticles | UMBB |
| T2-P-38 | Souha Debili | The impact of the macroscopic - scale polarization on the piezoelectric characteristics of poly (vinylidene fluoride) (pvdf) | |
| T2-P-24 | ALLAOUA Farid | Study of structural , electronic and magnetic properties of Ti substituted rutile-GeO ₂ from first principles. | Université of Bejaia |
| T2-P-21 | Trea Imane | Modelisation numerique de l'écoulement stationnaire d'un fluide non newtonien à travers une conduite sténosee | USTHB |
| T2-P-107 | Lamia Timhadjelt | Development of a bioplastic based on a mixture of plasticized starch and poly(lactic acid). | UMBB |
| T2-P-108 | Djedjiga Haouanoh | Electrokinetic characterization and photocatalytic performance of zno nanoparticles for rhodamine b degradation in acidic medium | UMMTO |
| T2-P-1 | CHIKHAOUI Imane | Étude des propriétés des nanoparticules de CeO ₂ et des composites CeO ₂ -x%LiF : vers une utilisation comme capteurs d'humidité | UMMTO |
| T2-P109 | BERCHI Abderrahmane | Etude des performances photocatalytiques des couches minces de zno/cu 2 o sur la dégradation d'un colorant organique (bleu de méthylène) | Setif University |
| T2-P110 | Benouadah Nacira | Chemical characterization and biomaterial potential of wood bark | UMBB |
| Session chairs Dr. KORD Afaf Dr. BOUDINAR Salem | | | |
| T6-P-26 | Aiche Amina | First-principles study of electronic STRUCTURE, magnetic, AND MECHANICAL properties of Sr _{1-x} Ti _x O ₃ | UMMTO |
| T6-P-21 | Bougofa Mohammed | Risk and reliability analysis using bayesian networks for industrial processes | Sonatrach |
| T6-P-27 | Warda Fella Belaid | Descriptor preprocessing and structural insight into mesogenic phases with tunable alkyl chains | USTHB |
| T5-P-3 | Abdelhamid Karouche | Evolution of concrete admixtures and the impact of phase change materials (pcm) on mechanical properties | Univ. Sétif |



1st National Seminar on Process Engineering and Industrial Development
Boumerdes, November 05-06, 2025



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|---------|----------------------|--|---------------------------|
| T5-P-23 | Belkharouché Drifa | Characterization and valorization of carbonized green tea residues | université de Constantine |
| T5-P-13 | Benhaoua Fayrouz | Development and characterization of wall tiles based on borosilicate waste, chamotte, and sand | UMBB |
| T5-P-14 | Brahimi Faiza | Optimized Integration of Exhaust Gases from Gas Turbines in the Food Industry: Towards a Sustainable Food Industry | UMBB |
| T5-P-20 | LARID Roza | A sustainable cosmetic product with vegetable oils: application in a natural solid shampoo | UMBB |
| T5-P-24 | Nor El-Houda Maameri | The combined influence of recycled aggregate and slag on the fresh performances of self-compacting concrete | université de Blida 1 |
| T4-P-41 | Habiba FERDJOUNI | Synthese et caracterisation du mcm-41 pour l'adsorption du bleu de methylene | Université Blida1 |

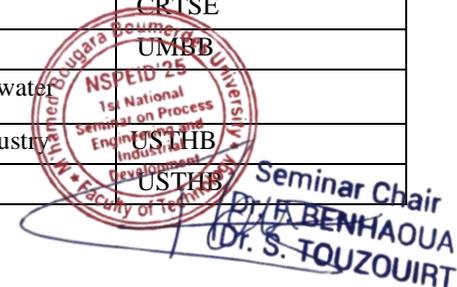
Thursday, November 6, 2025 (10H45-11H15)

Session chairs
Dr. BENFADEL Karima
Dr. KADDOURI Farah

| | | | |
|----------|---------------------|--|-------------------------|
| T2-P-103 | Abdelhamid Karouche | Evolution of concrete admixtures and the impact of phase change materials (pcm) on mechanical properties | FHC UMBB |
| T3-P-26 | Abdelkader Hemaizia | Stabilization and nox emission characteristics of premixed swirling propane-air flames with hydrogen enrichment | USTHB |
| T3-P-23 | Abderrezak Sabour | Energy Analysis of ISCC Plant at Hassi R'Mel | University of Khenchela |
| T3-P-11 | Asma Bourai | Eco-Friendly Materials for Low-Cost Solar Energy Harvesting : RbSnBr ₃ Lead-Free Perovskites | University of Annaba |
| T3-P-21 | Guemmedi Messaouda | Matlab study of factors influencing the operation of a photovoltaic cell | UMBB |
| T3-P-16 | Hanane Cheradi | Optimization of the Melting Performance of NEPCM/Metal Foam Composites in Latent Heat Storage Systems | UMBB |
| T3-P-36 | Ouchefoun Zoulikha | Application of Adaptive PSO for Cost-Emission Optimization in an Intelligent Hybrid Microgrid | UMBB |
| T3-P-29 | Rahmani Mohamed | Modeling the Impact of Electron Transport Layer Properties and Absorber Density of States on Perovskite Solar Cells Efficiency | university of biskra |
| T3-P-25 | Thinhinane TEBA | Hydrothermal synthesis and electrochemical performance of core-shell sulfide electrodes for supercapacitors | USTHB |

Session chairs
Dr. AISSAT Fetta
Dr. MOKRAN Zakia

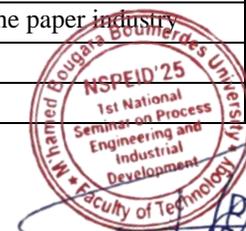
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|---------|---------------------|--|-----------------------|
| T4-P-15 | Abdelouahed BRAHIMI | Evaluation of the Treatment Efficiency of an Extensive Wastewater System: Case Study of the Aerated Lagoon Plant in Reguiba (El Oued region) | University of Ouargla |
| T4-P-67 | ADJOU Ouiza | Elimination of Methylene Blue from Aqueous Solutions Using Mixed Oxide Photocatalysts under Visible Light Irradiation | University of Bejaia |
| T4-P-42 | Afaf Brik | Modified silicon nanoparticles WITH CeO ₂ /NiO as a photocatalyst for the degradation of tetracycline | CRTSE |
| T4-P-51 | Ait ahsene Fetta | Oily Water Treatment in the Oil Industry at the Hassi Messaoud Oilfield (BRN) | UMBB |
| T4-P-36 | Ait Ouaisa yasmine | Evaluating the Effectiveness of Different Advanced Oxidation Processes (AOPs) for Treating Real Refinery Wastewater | USTHB |
| T4-P-39 | Nadia CHEKIR | Performance evaluation of coagulation and flocculation processes in treating industrial effluents from the paper industry | USTHB |
| T4-P-34 | Hamoudi Leyla | Pollutant loads retention by a tubular membrane based on kaolin clay | USTHB |



1st National Seminar on Process Engineering and Industrial Development
 Boumerdes, November 05-06, 2025



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| T4-P-28 | Khemmari fariza | Continuous column adsorption of toxic hexavalent chromium onto raw peach stones: experimental and breakthrough curves analysis | Tipaza University Center |
| T4-P-2 | MEBARKI Bachir | Hydro-geotechnical Analysis and Environmental Impacts of Submerged Weirs | University of Jijel |
| T4-P-39 | Nadia CHEKIR | Performance evaluation of coagulation and flocculation processes in treating industrial effluents from the paper industry | USTHB |
| T4-P-53 | Sonia DJOUMAD | Iron oxide nanoparticles: a sustainable pathway for advanced treatment of industrial effluents | UMBB |
| T4-P-35 | Z. MEGUELLATI | Review on the application of layered double hydroxide materials in photocatalysis | UMBB |



Seminar Chair
 Dr. F. BENHAOUA
 Dr. S. TOUZOUIRT



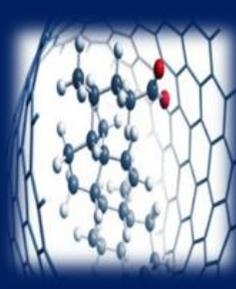
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Program



1st National Seminar on Process Engineering and Industrial Development
Boumerdes, November 05-06, 2025



| Wednesday, November 5, 2025 (Morning) | | | | |
|--|---------------|-------------------------------|--|-----------------------------|
| Oral Communications (Room 1 & Room 2) / On-Line | | | | |
| Room 1 (TOPIC 1: Chemical, Pharmaceutical, and Food Processes) | | | | |
| Session chair Dr. MAHMOUDI Souhila | | | | |
| 9H00-9H10 | T1-O-24 | Abdelmalek Meribai | Lactobacillus Plantarum Species: An Overview With Emphasis In Bacteriocinogenic, Probiotic, Biochemical And Healthy Properties | Univ. Bordj Bou Arreridj |
| 9H10-9H20 | T1-O-39 | Amel Kherouf | Quantitative assessment and antioxidant characterization of methanolic and aqueous extracts from a plant of the Ephedraceae family | Univ. Annaba |
| 9H20-9H30 | T1-O-43 | Asmaa Noureddine | The Antioxidant Activity Of Olive Leaves Using Spectrophotometric And Differential Pulse Voltammetry Methods | Univ. Laghouat |
| 9H30-9H40 | T1-O-20 | Attou Soumia | Evaluation Of Anti-Arthritic Activity Of Ointment Based On Flavonoids And Tannins Of Aristolochia Longa Plant | Univ. Mascara |
| 9H40-9H50 | T1-O-18 | Benmakhlouf Zebida | Evaluation Of The Antimicrobial Activity Of Bunium Mauritanicum L. Extracts | Univ. Mila |
| 9H50-10H00 | T1-O-2 | KERSANI Imène | Industrial applications and functional roles of microbial polysaccharides in foods | H. Sc. Bio. Oran |
| 10H00-10H10 | T1-O-49 | KHELIL Meryem | Essential oils: physicochemical study and prospects for use in plant protection | Univ. Biskra |
| 10H10-10H20 | Debate | | | |
| 10H20-10H30 | T1-O-4 | Boukellal Boubaker | Study Of Interaction Inclusion Complex System Between B-Cyclodextrin And Pyrazolidine: Physicochemical Characterization And Activity Antibacterial | Univ. Bejaia, |
| 10H30-10H40 | T1-O-35 | Boukerche Habiba | Effect Of Solvents And Extraction Methods On Total Anthocyanins And Antioxidant Capacity Of Hibiscus Sabdariffa.L | E N S Alger |
| 10H40-10H50 | T1-O-23 | Casasni Lydia | Antibacterial Potential Of Aqueous And Hydroethanolic Extracts From Different Parts Of Solanum Lycopersicum L. | Univ. K. Miliana |
| 10H50-11H00 | T1-O-32 | Fahima Abdellatif | Polyphenolic Composition And Antioxidant Effect Of Spirulina Extracts | E N S Alger |
| 11H00-11H10 | T1-O-47 | Hadja Fatima Tbahriti | Learning Food Representations Via Nmf/Pca + Neural Networks (Hybrid Approach) For Neurodegenerative Disease Progression Prediction | H.Sc.Bio. Oran |
| 11H10-11H20 | T1-O-27 | Narimane Marwa Boukezzoula | Synthesis, Single Crystal Structure, Characterization And Properties Of Iron Polymers With Salen Ligand. | Univ. Constantine |
| 11H20-11H30 | T1-O-30 | Nawel SAIDJI | Effet Du Ph Sur La Copigmentation Des Anthocyanes Des Extraits D'hibiscus Sabdariffa L.Avec Des Acides Organiques | ENS Alger- |
| 11H30-11H40 | T4-O-45 | Aicha Metali | Assessment Of Hexavalent Chromium Present In Solvent Paint Sludge From The Paint Industry | UMBB |
| 11H40-11H50 | T4-O-47 | Aicha Metali | Evaluation Of Cadmium Pollution Levels In Paint Industry Sludge | UMBB |
| 11H50-12H20 | Debate | | | |
| Room 2 (TOPIC 1: Chemical, Pharmaceutical, and Food Processes) | | | | |



Seminar Chair
DR. BENHIAOUA
DR. S. TOUZOUIRT

1st National Seminar on Process Engineering and Industrial Development
Boumerdes, November 05-06, 2025



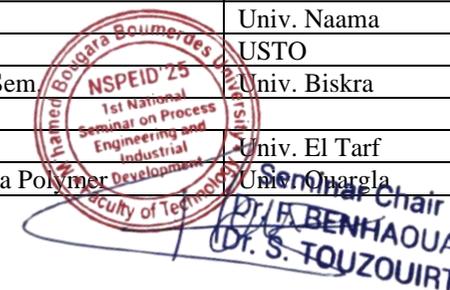
| Session chair Dr. BOUKHEROUB Nadia | | | | |
|---|---------------|----------------------|--|----------------------------|
| 9H00-9H10 | T1-O-26 | YOUNES Leyla | Characterization And Verification Of Thermostatic And Climatic Chambers | Univ. Setif |
| 9H10-9H20 | T1-O-50 | Touil Nourhane | Process Intensification And Green Synthesis Of A Novel A-Aminophosphonate Scaffold With Potential Antitubulin Activity For Pharmaceutical Applications | Univ. Annaba |
| 9H20-9H30 | T1-O-33 | Samia Guezane Lakoud | A-Aminophosphonate/ Phosphate A-Aminophosphonate: Synthesis, Dft Calculations And Molecular Docking As Anti-Inflammatory Agents | Univ. Annaba |
| 9H30-9H40 | T1-O-9 | Amal Ayad | High-Pressure Phase Equilibrium For Carbon Dioxide Solubility With Biofuels | Univ. Tlemcen |
| 9H40-9H50 | T1-O-19 | Amel Kherouf | Quantitative Assessment And Antioxidant Characterization Of Methanolic And Aqueous Extracts From A Plant Of The Ephedraceae Family | Univ. Annaba |
| 9H50-10H00 | T1-O-28 | FEKNOUS Nesrine | Contribution A L'étude Des Propriétés Bactériennes Des Aliments Fonctionnels | Univ. El-Tarf |
| 10H00-10H10 | T1-O-22 | Belkhadem Fatima | Synthèse, Activité Anti-Radicalaire De Nouveaux Hydrazides Issus Des Acides Nitro-Aromatiques Halogénés | Univ. Ain Temouchent |
| 10H10-10H20 | Debate | | | |
| 10H20-10H30 | T1-O-16 | Amina Habbeche | Xylanase Production From Thermophilic Actinomycete Using The RSM Approach And Its Application In The Beverage Industry | Univ. Annaba |
| 10H30-10H40 | T1-O-42 | Aya Alem | Ciprofloxacin Cooper (Ii) Complex: Antimicrobial Evaluation, Molecular Docking And Adme Prediction Studies | Univ. Annaba |
| 10H40-10H50 | T1-O-13 | Bouaoun Mayada | Phytochemical Screening And Biological Activities Of Algerian Medicinal Extracts: Antioxidant, Antidiabetic, And Antibacterial Potential | Univ. Constantine |
| 10H50-11H00 | T1-O-52 | Smadi Abla | Phytochemical Investigation And Antioxidant Activity Of <i>Helianthemum Rubellum</i> | Univ. Batna |
| 11H00-11H10 | T1-O-21 | Souhila Bensmail | Préparation D'un Fromage Type EDAM A Base Du Lait De Chèvre Avec Des Extraits Protéolytiques D'origine Fongique | Univ. Bouira |
| 11H10-11H20 | T1-O-7 | Raounek Rouag | Synthesis, Spectroscopic Studies, And Crystal Structure Of 2-(5-Bromo-2-Hydroxyphenyl)Benzimidazol-3-Ium Acetate Acetic Acid Solvate | Univ. Constantine |
| 11H20-11H30 | T1-O-6 | Zaidi Ibtissem | Optimization Of Lipid Extraction Processes In Three Fish Species: Inter-Species Comparison And Analytical Approaches Of Biochemical Compounds | N H Sch Of Marine Sciences |
| 11H30-11H40 | T1-O-34 | Ouardia Lounis | Process Engineering Approach to the Biotechnological Valorization of Pomegranate Juice through Lactic Fermentation | University of Mostaganem |
| 11H40-11H50 | T1-O-5 | Saidji Nawel | Extraction des anthocyanes d'hibiscus sabdariffa et étude de leur stabilité physico-chimique | ENS kouba |
| 11H50-12H00 | T1-O-8 | Gaid El-Habib | Green chemistry and its role in industrial development (Pesticides) | Université El-Oued |
| 12H00-12H30 | Debate | | | |
| Oral Communications (Room 3 & Room 4) / On-Line | | | | |
| Room 3 (TOPIC 2: Process Engineering of Materials and Polymers, Biomaterials, Nanomaterials, and Nanotechnology) | | | | |
| Session chairs Dr. KADDOUR Houria Dr. BERCHI Abderrahmen | | | | |
| 9H00-9H10 | T2-O-26 | Akkal Thilali | La Gravure Au Fluorure D'ammonium : Une Approche Innovante Pour Une Hierarchisation Optimale Des Sites | Univ. Béjaïa |
| 9H10-9H20 | T2-O-25 | Ayachi Med Laid | Evaluation Of Antioxidant And Antibacterial Properties Of Asteraceae Extracts Collected In The Oued Souf Development | Univ. Ouargla |



1st National Seminar on Process Engineering and Industrial Development
Boumerdes, November 05-06, 2025



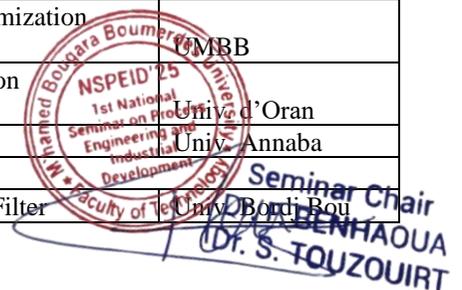
| | | Region | | |
|---|---------------|-------------------------|--|---------------------|
| 9H20-9H30 | T2-O-7 | Boumediene Maamar | Preparation And Characterization Of An Agricultural Waste (Orange Peels) As A Biosorbent Material For Water Treatment | Univ. Tlemcen |
| 9H30-9H40 | T2-O-32 | Djahida Sidane | The Chemical And Thermal Modification Of Calcium Phosphate Bioceramic Powders | Univ. Béjaïa |
| 9H40-9H50 | T2-O-3 | Djerafa Moussa | A Highly Sensitive Voltametric Detection Of Kongo Red Using Cofe2o4/Glassy Carbon Modified Electrode | Univ. Jijel |
| 9H50-10H00 | T2-O-46 | Zineb Laali | Olive Waste To Biomaterials: A Bio-Based Approach For Health And Sustainability | N P Sch Constantine |
| 10H00-10H10 | T2-O-41 | Riad Babba | Optimized Non-Uniform Cfrp Confinement For Enhanced Strength And Ductility Of Concrete Cylinders | Univ. Tamanghasset, |
| 10H10-10H20 | T2-O-17 | Baghdad Chaimaa | Biobased formulation with biosurfactants for cleaning and biodegrading petroleum-derived residues | Univ. Saida |
| 10H20-10H40 | Debate | | | |
| 10H40-10H50 | T2-O-37 | Fahima Bouarar | Etude Comparative D'un Biomateriau A Base D'amidon De Pomme De Terre Et Celui De Ses Eplechures | Univ. Laghouat |
| 10H50-11H00 | T2-O-21 | Hamza Bouakraz | A DFT Study Of Physical Properties Of Graphene Material | Univ. Bejaia |
| 11H00-11H10 | T2-O-23 | Hara Hamza | Correlation Between Crystalline Structure And Alumina Thermal Behavior Obtained By Sol-Gel | Univ. Bejaia |
| 11H10-11H20 | T2-O-33 | Hayette Djedai | Numerical Evaluation Of Nanofluid Flow And Thermal Behavior In Counter-Flow Coaxial Heat Exchangers | CRM Constanti |
| 11H20-11H30 | T2-O-40 | Imene Rahmoune | Active Vortex Generator-Induced Heat Transfer Enhancement Of Magnetic Nanofluids In Minichannels Under A Permanent External Magnetic Field | Univ. Batna |
| 11H30-11H40 | T2-O-47 | Abalache Amel | Thermal and mechanical properties of phbv/spanish broom fibre biocomposites after chemical treatment of sbf | Univ. Bejaia |
| 11H50-12H00 | T2-O-10 | Aouacheria Fatima Zohra | Structural Characterisation Of Zn1-Xmgxo Thin Films Prepared By Sol-Gel Dip Coating Technique | Univ. Constantine |
| 12H00-12H10 | T2-O-43 | kouka bouslah | impact of aggressive hydrocarbons on hdpe gas pipelines | ENSTI Annaba |
| 12H10-12H20 | T2-O-48 | ahlam belabed | hydrothermal synthesis, structural and optical characterization of copper oxide-doped mcm-41 mesoporous nanomaterial | university of Chlef |
| 12H20-12H50 | Debate | | | |
| Room 4 (TOPIC 2: Process Engineering of Materials and Polymers, Biomaterials, Nanomaterials, and Nanotechnology) | | | | |
| Session chair | | | | |
| Dr. CHELLALI Samira | | | | |
| 9H00-9H10 | T2-O-14 | Lahouel Khemissi | Thin Films Of Zno And Nio Synthesized By The Sol-Gel Technique And Dip Coating Process For Photocatalytic Use | Univ.Khenchela |
| 9H10-9H20 | T2-O-4 | Meghchouche Houssam | First Principles Insight On The Structural, Mechanical, Magnetic, Electronic And Optical Properties Of Kmgns Heusler Alloy | LNCTS |
| 9H20-9H30 | T2-O-11 | Meziane Ouahiba | Solubility Changes Of Mixture Components During Melt Mixing: Effect Of Catalyst | Univ. Tamanghasset |
| 9H30-9H40 | T2-O-19 | Mourad Mimouni | Reducing Of The Preparation Time And Improving The Critical Temperature Of The Bi-2212 Superconducting Phase Using The Photopolymerization Reaction. | Univ. El Oued |
| 9H40-9H50 | T2-O-22 | Nadji Loubna | Numerical Study Of Parameters Enhancing Composite Patch Debonding In Structural Repairs | Univ. Naama |
| 9H50-10H00 | T2-O-6 | Baziz Meriem | Biocomposite Ipn Beads Based On Alginate/Polyacrylamide And Sepiolite Clay | USTO |
| 10H00-10H10 | T2-O-30 | Amina Masmoudi | Assessment Of Tensile Behavior And Damage Evolution In Gfrp Composites Using Dic And Sem | Univ. Biskra |
| 10H10-10H20 | Debate | | | |
| 10H20-10H30 | T2-O-16 | Naoual Houaidji | Elaboration And Characterization Of Nichrone Powders Prepared By Mechanical Alloying. | Univ. El Tarf |
| 10H30-10H40 | T2-O-9 | Saci Ahmed | Enhancing Rutting Resistance And Void Structure Of Asphalt Mixtures Through Lucobit 1210a Polymer | Univ. Saida |



1st National Seminar on Process Engineering and Industrial Development
Boumerdes, November 05-06, 2025



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| | | | Modification And Dune Sand Incorporation | |
| 10H40-10H50 | T2-O-12 | Sayoud Nawel | Mechanical Properties Of Material Bi (Pb)2223 | Univ. Skikda |
| 10H50-11H00 | T2-O-39 | Souad Ayadi | Microstructural Changes In Ductile Iron Induced By Chromium, Nickel And Molybdenum Additions | Univ. Annaba |
| 11H00-11H10 | T2-O-27 | Touafek Ouassila | In Vitro DPPH Scavenging Activity Of Green-Synthesized Nickel Oxide Nanoparticles | Univ. Blida |
| 11H10-11H40 | | | Debate | |
| Oral Communications (Room 5) / On-Line | | | | |
| Room 5 (TOPIC 5: Recycling and Waste Recovery) | | | | |
| Session chair | | | | |
| Dr. KEBBOUCHE Zahia | | | | |
| 9H00-9H10 | T5-O-4 | Zeroual Afaf | Using Date Palm Fiber Waste To Reduce Shrinkage And Cracking In Expansive Clay | Univ. Biskra |
| 9H10-9H20 | T5-O-5 | Aidat Omaima | Optimisation Statistique Avancée De L'extraction De Gélatine A Partir De Sous-Produits Avicoles : Une Approche Durable De Valorisation Des Déchets | Univ. Mostaganem |
| 9H20-9H30 | T5-O-11 | Rahma Mayouf | Waste To Value Approach: Recycling Date Seeds Through Roasting For High-Value Oil Production | Univ. Bejaia |
| 9H30-9H40 | T5-O-12 | Farid Lachibi | Process Engineering Strategies For Waste Valorization: Glass Waste As A Resource For Green Ceramics | UMBB |
| 9H40-9H50 | T5-O-14 | Rebita Fatima Zahra | Valorization Of Shrimp By-Products: Sustainable Extraction And Bioactive Properties Of Astaxanthin | Univ. Mostaganem |
| 9H50-10H00 | T5-O-16 | Ait Yahia Abdellah Walid | Recovery Of Metals And Plastics From Weee Waste By Electrostatic Separation | Univ. Sidi-Bel-Abbes |
| 10H00-10H10 | T5-O-17 | Amata Rim | Valorization Of Phosphate Sludge: Toward Sustainable Recovery Of Mining By-Products | Univ. Tebessa |
| 10H10-10H20 | T5-O-18 | Asmaa Boubakeur | Sustainable Performance Of Self -Compacting Concrete Using Recycled Aggregates And Slag | Univ. Blida |
| 10H20-10H40 | | | Debate | |
| Thursday, November 6, 2025 (Morning) | | | | |
| Oral Communications (Room 1 & Room 2) / On-Line | | | | |
| Room 1 (TOPIC 3: Renewable Energy and New Technology) | | | | |
| Session chair | | | | |
| Dr. BOUKHEROUB Nadia | | | | |
| 9H00-9H10 | T3-O-13 | Abdallaoui Doua | Study By Numerical Simulation Of Effect Of Instability Induced Defect In Perovskite Solar | Univ. Biskra |
| 9H10-9H20 | T3-O-12 | Abdelhak Kechida | Intelligent Control And Optimization Of Bidirectional Power Converters In Isolated Hybrid Renewable Energy System | Univ. Djelfa |
| 9H20-9H30 | T3-O-30 | Ardjouna Chebabhi | Hydrogen As A Key Technology For Clean Energy And Long-Term Storage | Univ. Biskra |
| 9H30-9H40 | T3-O-26 | Baala Seddik | Anfis-Baesed Intelligent Control Of A Photovoltaic System For Efficient Mppt | Univ. Adrar |
| 9H40-9H50 | T3-O-17 | Kouider Elouahed Salima | High-Yield Biodiesel Synthesis From Waste Vegetable Oil Via Cao/Zn/Mo Catalysts And Rsm Optimization | UMBB |
| 9H50-10H00 | T3-O-5 | DRIS Keltoum | Innovative Lead-Free Perovskite Solar Cell Structure With Two Absorber Layers For Next-Generation Renewable Energy Applications | Univ. d'Oran |
| 10H00-10H10 | T3-O-7 | Abderaouf Namoune | Optimizing Photovoltaic Systems: Integrating Artificial Intelligence And Thermal Analysis | Univ. Annaba |
| 10H10-10H20 | | | Debate | |
| 10H20-10H30 | T3-O-20 | Mehiris Moussa | Finite Control Set-Mpc Of Pv-Fed Split-Source Inverter Connected With The Grid Through An Lcl Filter | Univ. Bordj Bou |

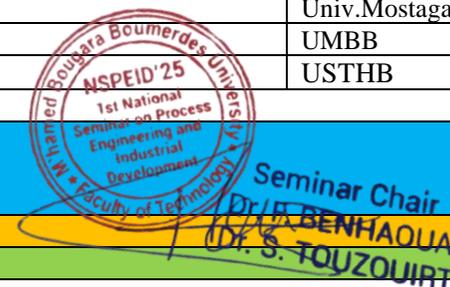


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Dr. S. BENHAOUA

1st National Seminar on Process Engineering and Industrial Development
Boumerdes, November 05-06, 2025



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|--|---------------|------------------------------|--|-----------------------------|
| | | Abderrahim | | Arreridj |
| 10H30-10H40 | T3-O-21 | Mehiris Moussa Abderrahim | Fpga-Based Real Time Implementation Of Lyapunov-Based Model Predictive Control For Lcl Filtered Grid-Tied Inverter | Univ. Bordj Bou Arreridj |
| 10H40-10H50 | T3-O-18 | Meriem Boudiaf | Tio2-Modified Bentonite As A Cost-Effective Support For Nickel-Based Catalysts In Dry Reforming Of Methane | USTHB |
| 10H50-11H00 | T3-O-36 | Nassir DEGHFEL | Adaptive Integral Backstepping Mppt For Boost-Converter Photovoltaic Systems | Univ.Setif |
| 11H00-11H10 | T3-O-40 | Omar Khelfa | Technical And Economic Comparison Of Photovoltaic Pumping And Low-Voltage Grid-Powered Pumping In Semi-Arid Areas | Univ. Djelfa |
| 11H10-11H40 | Debate | | | |
| Room 2 (TOPIC 3: Renewable Energy and New Technology) | | | | |
| Session chair | | | | |
| Dr. BELHOUCIF Rokia | | | | |
| 9H00-9H10 | T3-O-48 | Dinaalkama | ENERGY HARVESTING IN SWIPT-ENABLED UAV COMMUNICATIONS | Univ. Bejaia |
| 9H10-9H20 | T3-O-39 | Mohammed Kendzi | Improved Control Performance Of A Doubly Fed Induction Generator In Wind Turbine System By Comparison Between The Synergetic And Backstepping Methods Control | Univ. Naama, |
| 9H20-9H30 | T3-O-29 | Bouchra Kaima Mechraoui | Data-Driven Regression Models For Ionic Conductivity And Arrhenius Behavior | Univ.Laghouat |
| 9H30-9H40 | T3-O-9 | Rima Cherroun | Impact Of Inserting A Buffer Layer Between The β -Ga ₂ O ₃ :Si Drift Region And The 4h-Sic Substrate In A Solar-Blind Schottky Barrier Ultraviolet Photodetector | Univ. Biskra |
| 9H40-9H50 | T3-P-5 | Elias Abdenour | Gasification Based Power Generation Of Combined Efgt-Orc System From Olive Pomace In Tizi Ouzou Region : Thermodynamic And Economic Anlysis | Univ. Blida |
| 9H50-10H00 | T3-O-32 | Youcef Attou | Forced Convection Improvement In Rotary Cement Kilns: Numerical Study Of Zigzag Wall Effects On Heat Transfer Characteristics | Univ.Mostaganem |
| 10H00-10H10 | T3-O-15 | Youcef Redjeb | Exploring R1234yf-Al ₂ O ₃ Nanorefrigerants As A Low-Gwp Alternative To R134a In Vcrs | Univ. El Oued |
| 10H10-10H20 | Debate | | | |
| 10H20-10H30 | T3-O-4 | Ahmed Bennaoui | Enhanced Nonlinear System Control Using Wcmfo-Tuned Fuzzy Logic | Univ. Laghouat |
| 10H30-10H40 | T3-O-6 | Amina BENMANSOUR | Numerical Study Of Cs ₂ TiBr ₆ -Based Solar Cell | Univ. Tlemcen |
| 10H40-10H50 | T3-O-28 | Selma Belkacem | A Synrg-Based Wind Power System: Advanced Control With Model-Free And Ant Colony Optimization Approaches | Univ. Chlef |
| 11H50-11H00 | T3-O-3 | Abdelli Islam Safia | Assessment Of Lost Energy Recovery From Methane Emissions Due To Organic Waste Biodegradation In Oran's Municipal Landfills (West Algeria) | Univ.Mostaganem |
| 11H00-11H10 | T3-O-45 | Daimallah ahmed | Effect of solar radiation on the flow behavior in a solar chimney power plant | UMBB |
| 11H10-11H20 | T3-O-47 | Barr amel | Hydrogen generation on p-type cucro2 photocatalyst | USTHB |
| 11H20-11H50 | Debate | | | |
| Thursday , November 6, 2025 (Morning) | | | | |
| Oral Communications (Room 3) / On-Line | | | | |
| Room 3 (TOPIC 4: Environment and Water Treatment) | | | | |



1st National Seminar on Process Engineering and Industrial Development
Boumerdes, November 05-06, 2025



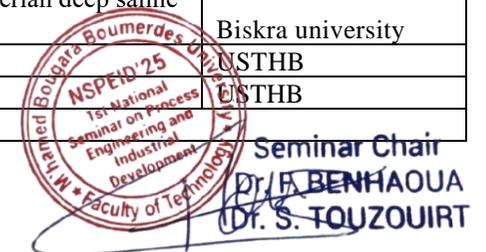
| Session chair Dr. KORD Afaf | | | | |
|--------------------------------|---------------|-------------------------|--|--------------------------------|
| 9H00-9H10 | T4-O-41 | Selma ATTIA | NixCu1-xFe2O4 spinel solid solutions as efficient electrocatalysts for glucose sensing | ENSTA |
| 9H10-9H20 | T4-O-9 | Toubane Mahdia | Enhanced photocatalytic activity of Co doped BiMnO3 nanoparticules under sunlight | UMBB |
| 9H20-9H30 | T4-O-44 | Amata Rim | Environmental Impact And Treatment Strategies For Phosphate Sludge From Beneficiation Processes | Univ. Tebessa |
| 9H30-9H40 | T4-O-26 | Asmaa Habibi | Study Of Ni(II) And Mn(II) Adsorption On A Carob-Based Composite | Univ. Saida |
| 9H40-9H50 | T4-O-22 | Aya Bouaziz | Environmentally Benign Synthesis Of Zno Nanoparticles For Photocatalytic Degradation Of Reactive Red 18 | Univ. Constantine |
| 9H50-10H00 | T4-O-27 | Bendjazia Rania | Phytochemical Composition And Bioefficacy Of Ruta Species Oils And Their Mixture Against A Mosquito Vector | Univ. Tebessa |
| 10H00-10H10 | T4-O-28 | Hassina Bendjaballah | Exploring The Production Of Thermotolerant Extracellular Amylases By Thermophilic Bacteria Isolated From A Hot Spring In Algeria | Univ. Constantine |
| 10H10-10H20 | T4-O-49 | Benkeroura Souâd | Caractérisation de la pollution et du degré d'eutrophisation des eaux du barrage Cheurfa II, Nord Ouest algérien | Univ. Mascara |
| 10H20-10H30 | T4-O-40 | messaoudi zakarya ayoub | natural and modified algerian clays for the removal of cationic dye from water under sunlight irradiation | Université de Bejaia |
| 10H30-10H50 | Debate | | | |
| 10H50-11H00 | T4-O-14 | rynad terki | towards eco-friendly scale inhibition: efficiency of a plant extract against caco ₃ precipitation | Université de Bejaia |
| 11H00-11H10 | T4-O-39 | hamida Messaouda | effet des conditions de traitement sur la degradation de polluants organiques refractaires par le systeme uv/chlore d'oxydation avancee | Technology of Oran |
| 11H10-11H20 | T4-O-29 | Dahmani Mohamed Said | Development of a bio-adsorbents and a biopolymers from waste materials for the treatment of toxic industrial effluents | UMMTO |
| 11H20-11H30 | T4-O-16 | Bencedira Selma | Sustainable Synthesis of Fe ₃ O ₄ Nanoparticles from Recycled Iron Waste for Efficient Wastewater Treatment | University of Annaba |
| 11H30-11H40 | T4-O-13 | habbeche amira | Biosurveillance de la pollution des eaux du golfe d'annaba a l'aide de la plante posidonia oceanica et de ses epiphytes comme bioindicateurs de perturbation | université 20 Aout 1955 skikda |
| 11H40-11H50 | T4-O-8 | khebizi hafidha | artificial recharge effectiveness of the water table by purified wastewater: case study of el oued, algeria | ENSH |
| 11H50-12H10 | Debate | | | |
| 14H30-14H40 | T4-O-5 | Hamous Hanene | Electrochemical Nanostructured Electrodes For Sustainable Water Treatment: Application To Atrazine Removal | Univ. Oran |
| 14H40-14H50 | T4-O-37 | LAGRAA Chaima | pH and Surface Charge Effects on the Interaction of Functional Materials with Organic Pollutants | |
| 14H50-15H00 | T4-O-32 | Chouaib Siouda | Innovative Bioprocesses For Environmental Sustainability: The Case Of Azolla Pinnata | Univ. Blida |
| 15H00-15H10 | T4-O-46 | Fairouz Aberkane | Treatment Of Lead-Contaminated Water Using Poly(2-Hydroxy 4-Methacryloyloxybenzophenone) | Univ. Batna |
| 15H10-15H20 | T4-O-6 | Hamous Hanene | Sustainable Electrochemical Strategies For The Degradation Of Ibuprofen: A Green Approach To Limiting The Environmental Impact Of Pharmaceutical Residues | Univ. Oran |
| 15H20-15H30 | T4-O-10 | Hicham Seraa | Effet Du Rapport D'imprégnation Et De La Température D'activation Sur Préparation Du Charbon Actif Par Activation Chimique Avec H ₃ PO ₄ | Univ. Djelfa |
| 15H30-15H40 | T4-O-24 | Houria Chahraoui | Assessment Of Non-Stationary Hydrological Extremes: Changes In Flood And Drought Regimes In The Mazafran Watershed, Northern Algeria | Univ. Chlef |
| 15H40-15H50 | T4-O-21 | Mechati Sabrina | Optimizing Mass-To-Volume Ratio And Contact Time In Congo Red Adsorption Using Green-Synthesized MgO Nanoparticles | Univ. Constantine |
| 15H50-16H00 | T4-O-18 | Chouaib Siouda | Green Technology For Water Quality Improvement | Univ. Blida |
| 16H00-16H10 | T4-O-38 | larous soumaya | recovery of ethanol from aqueous solutions using salting effect: application of dissolved sodium chloride salt | Univ. Blida |

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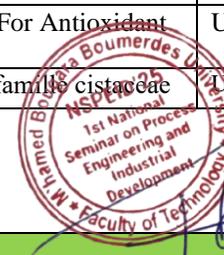
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|---|---------------|-----------------------|--|---------------------------|
| 16H10-16H20 | T4-O-35 | nadjet boulkroune | enhancing liquid-liquid extraction of propionic acid with cacl ₂ | Constantine 3 University |
| 16H20-16H30 | T4-O-12 | naima belouadah | evaluation of the effective dose in different thermal stations | USTHB |
| 16H30-16H40 | T4-O-20 | marwa bendaia | valorization agricultural waste into functional materials for adsorption of organic dyes | El Tarf University |
| 16H40-16H50 | T4-O-36 | HEGUI Houcine | Assessment of environmental changes on the quality of cultivated soil in irrigated perimeter(Case study: the Abadla plain, SW Algeria) | University of Bechar |
| 16H50-17H10 | Debate | | | |
| Oral Communications (Room 6) / On-Line | | | | |
| Room 6 (TOPIC 6: Simulation and Artificial Intelligence in Industry) | | | | |
| Session chair | | | | |
| Dr. MAGHLAOU Leila | | | | |
| 15H00-15H10 | T6-O-1 | Wahiba Fandi | Design Optimization Of Multi-Aisle As/Rs Equipped With A Multi-Shuttle S/R Machine Via Genetic Algorithm | ESSA Tlemcen |
| 15H10-15H20 | T6-O-3 | Sid Ahmed Dahmane | Innovative Approaches To Inverse Kinematics Resolution: Combining Optimization And Learning | Univ. Sidi Bel Abbas |
| 15H20-15H30 | T6-O-4 | Sid Ahmed Dahmane | Comparison Of Optimization Methods For Solving Inverse Kinematics Of The 5250 Labvolt 5-Dof Robot: Anfis, Genetic Algorithm, And Ant Colony Optimization | Univ. Sidi Bel Abbas |
| 15H30-15H40 | T6-O-6 | Oulfa Harrat | Numerical Simulation Of Cold-Formed Steel Built-Up Columns Under Compression | Univ. Annaba |
| 15H40-15H50 | T6-O-7 | Khadidja Naceur | Effect Of Buffer Layer Thickness (Cds) On Cu ₂ o-Based Heterojunction Solar Cell | Univ. Biskra |
| 15H50-16H00 | T6-O-9 | Imén Kouloughli | Reinforcement Learning Based Approaches For Optimizing Warehousing Performance | ESSA Tlemcen |
| 16H00-16H10 | T6-O-10 | Faouzi Hamza | Investigating Sheet Metal Material Behavior During Deep Drawing Through Numerical Simulation And Artificial Neural Network Modeling | Univ. Tébessa |
| 16H10-16H20 | T6-O-28 | Imane aila | towards a theoretical framework for dynamic cyber-physical risk assessment in industry using artificial intelligence | USTHB |
| 16H20-16H40 | Debate | | | |
| 16H40-16H50 | T6-O-11 | Imén Kouloughli | Design And Implementation Of An Erp System For Production Management At Cartonnerie El Amine | ESSA Tlemcen |
| 16H50-16H40 | T6-O-15 | Hasrouri Nor Elhouda | Leveraging Generative Ai For Enhanced Safety And Training In Industrial Environments | Univ.Khenchela |
| 16H40-16H50 | T6-O-16 | Hasrouri Nor Elhouda | Intelligent Object Detection And Proximity Alert Systems For Enhancing Safety In Industrial Environments | Univ.Khenchela |
| 16H50-17H00 | T6-O-17 | Hasrouri Nor Elhouda | Smart Monitoring System Using Mediapipe Pose Estimation For Worker Safety In Industrial Environments | Univ.Khenchela |
| 17H00-17H10 | T6-O-19 | Hayet Abdellatif | Machine Learning Approaches For Predicting The Toxicity Of Ionic Liquids. | Univ. Medea |
| 17H10-17H20 | T6-O-22 | Sarra Batoul Benamira | Dft Simulation Of H ₂ S Adsorption On Pure And Doped B ₃₆ Nanocluster | Univ. Constantine |
| 17H20-17H30 | T6-O-31 | abdallaoui doua | study by numerical simulation the effect of zinc-doped tio ₂ layer in perovskite solar cell | Biskra university |
| 17H40-17H50 | T6-O-08 | abdelaiz maaref | performance analysis of ppm-th-uwv systems in industrial channel | Sidi Bel Abbas University |
| 17H50-18H00 | T6-O-26 | wafa chaouche | carbon management through ccs: simulation-driven assessment of geological co ₂ storage in algerian deep saline aquifer | Biskra university |
| 18H00-18H10 | T6-O-27 | kamel belkacem | multi-objective maintenance planning for multi-state systems | USTHB |
| 18H10-18H20 | T6-O-29 | kamel belkacem | multi objective redundancy allocation problem for multi-state power system | USTHB |
| 18H20-18H40 | Debate | | | |



1st National Seminar on Process Engineering and Industrial Development
Boumerdes, November 05-06, 2025



| Saturday, November 8, 2025 (Morning) | | | | |
|--|---------------|------------------------|--|-----------------------------|
| Poster Communications / On-Line | | | | |
| Room 1 (TOPIC 1: Chemical, Pharmaceutical, and Food Processes) | | | | |
| Session chair Dr. LARID Roza https://meet.google.com/yux-fznb-zed | | | | |
| 9H00-9H05 | T1-P-41 | Aicha Khemkham | antimicrobial activity of aqueous extract of morus alba and morus nigra | University of Djelfa |
| 9H05-9H10 | T1-P-22 | ait belkacem Amira | Synthesis of a New Mannich-Type β -Amino Ketone: Antioxidant Evaluation and Docking Simulation | université de Constantine 1 |
| 9H10-9H15 | T1-P-58 | Amel Fenniche | Comprehensive Phytochemical Characterization and In Vitro Antioxidant Evaluation of Methanolic Extracts from Echium sp. (Boraginaceae) Using the ABTS Radical Scavenging Assay | University of M'sila |
| 9H15-9H20 | T1-P-5 | BADAoui Fatima Zohra | Formulation and characterization of mouth paint | University of Constantine 3 |
| 9H20-9H25 | T-P-66 | Boukraa Naima | Evaluation of the chemical composition and antibacterial activity of essential oil laurus nobilis l, against isolated bacteria from dental clinic. | University of Ouargla |
| 9H25-9H30 | T1-P-37 | Daoudi Sofiane | Synthesis and antimicrobial activity of symmetrical diquaternary ammonium salt bearing bis 1,3,4-oxadiazole heterocyclic rings | University of Saïda |
| 9H30-9H35 | T1-P-53 | Djekidel Alia | In Silico Evaluation of Artemisia herba-alba Phenolic Compounds as Natural Tyrosinase Inhibitors | University of Laghouat. |
| 9H35-9H40 | T1-P-36 | Fatma Attoura | Lactobacilli producing antimicrobial substances inhibiting pathogens: case of organic acids | University of Mostaganem |
| 9H40-10H00 | Debate | | | |
| 10H00-10H05 | T1-P-27 | Guermache Lamis | Evaluation of the anti-inflammatory activity in vivo and in vitro of fenugreek extracts | Khemis Miliana University |
| 10H05-10H10 | T1-P-23 | Houcine Choubane | Enhancing Ammonium Nitrate Quality via Targeted Adjustments in Industrial Fertilizer Production | Université d'Oran |
| 10H10-10H15 | T1-P-24 | Katia Belazougui | Phytochemical Study and Evaluation of Biological Activities of Hedera Helix leaves Growing Wild in Algeria | USTHB |
| 10H15-10H20 | T1-P-18 | Khadidja Kradra Brahma | Molecular Structure Characterization Of Asphaltenes Using Xrd | Université de Chlef |
| 10H20-10H25 | T1-P-62 | Mouna Elkolli | Synthesis, Biological Evaluation Of Novel Organophosphorous Compounds As Cholinesterase Inhibitors | University of Sétif |
| 10H25-10H30 | T1-P-56 | Narimane Lammari | Development And Assessment Of A Herbal Sunscreen Incorporating Lemon Balm Extract For Antioxidant And Photoprotective Properties | University of constantine |
| 10H30-10H35 | T1-P-63 | Siham TERFASSI | Valorisation des ressources naturelles, activité antioxydante d'une espèce endémique de la famille cistaceae | Université de Constantine |
| 10H35-10H55 | Debate | | | |
| Room 2 (TOPIC 1: Chemical, Pharmaceutical, and Food Processes) | | | | |



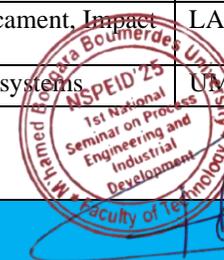
Seminar Chair
Dr. F. BENHAOUA
Dr. S. TOUZOURT

1st National Seminar on Process Engineering and Industrial Development
Boumerdes, November 05-06, 2025



| Chairmen session Dr. ABERBACHE Nefissa https://meet.google.com/cuw-kazg-ckr | | | | |
|--|---------------|----------------------|--|--------------------------------------|
| 9H00-9H05 | T1-P-50 | Touil Nourhane | Bridging Synthesis and Application: An Integrated Process-Oriented Study of Novel Azo-Phosphonates as Potential Antibacterial Agents | Annaba-University |
| 9H05-9H10 | T1-P-3 | KADDOUR Taous | Green Extraction, Bioactivity, And Toxicity Assessment For Food Safety Applications Of Natural Preservatives From Olive Leaves | Université de Bejaia |
| 9H10-9H15 | T1-P-51 | Ouardia REBAS | Liquid-Liquid Extraction Of Molybdenum(VI) From Aqueous Solution Using 1-Hydroxyhexadecylene-1,1-Diphosphonic Acid | Polytechnic National School, Algiers |
| 9H15-9H20 | T1-P-28 | Fatima Zahra Benatia | Hemolytic Activities and α -Amylase Inhibitory of Arisarum vulgare Extracts: Insights into Safety profile and antidiabetic potential | University of Tlemcen |
| 9H20-9H25 | T1-P-15 | Bensouiki Sarra | Evaluation of the anti-inflammatory activity of an inclusion complex PIROXICAM –HYDROXYPROPYL-B -CYCLODEXTRINE | ENP Constantine |
| 9H25-9H30 | T1-P-29 | YOUNES Leyla | Calibration of non-automatic weighing instruments | Setif 1 University |
| 9H30-9H35 | T1-P-16 | Chaib Ibtissem | Bioproduction of lipase from candida sp. Using agro-industrial wastes: a sustainable approach for industrial applications | University of Constantine |
| 9H35-9H40 | T1-P-25 | Dakhmouche Nassima | Encapsulation of a hydrophobic drug in protein nanoparticles | Constantine 3 University |
| 9H40-10H00 | Debate | | | |
| 10H00-10H05 | T1-P-19 | Malika TASSOULT | Optimization of ultrasonic-assisted extraction of bioactive compounds and bioactivities of secondary date fruit cultivars: implications for process engineering and industrial development | HNSB Constantine |
| 10H05-10H10 | T2-P-71 | MERZOUAGUI Rania | Encapsulation of AahII Toxin in Chitosan Nanoparticles: Physicochemical Characterization and Reduction of Toxicity in a Lung Cancer Model | USTHB |
| 10H10-10H15 | T1-P-67 | Aicha Benbouriche | Efficacité des caroténoïdes du sous-produit de piment dans l'amélioration de la thermo-résistance des huiles alimentaires | Université de Bejaia |
| 10H15-10H20 | T1-P-65 | Djihane Zine | Evaluation of the anti-alzheimer's activity of novel quinazoline derivatives as multifunctional bioactive agents | Université de Constantine |
| 10H20-10H25 | T1-P-47 | Benlemmane Samira | Nutritional Profiling and Sensory Evaluation of Couscous Types Produced in Blida | University Blida 1 |
| 10H25-10H30 | T1-P-01 | CHIBANE Nazim | Optimized Eco-Extraction Of Phenolic Compounds From Pistacia Lentiscus | Université de Bejaia |
| 10H30-10H35 | T1-P-55 | Guenifi Nour Elhouda | Mise au point d'un bioprocédé vert pour la préparation d'un amidoprotéine, comme pro-médicament, Impact de l'introduction des desséchants | LASMA |
| 10H35-10H40 | | Meddah Sabrina | Fuzzy-based vibration control for strongly coupled axial torsional dynamics in rotary drilling systems | UMBB |
| 10H40-11H00 | Debate | | | |

Saturday, November 8, 2025 (Morning)

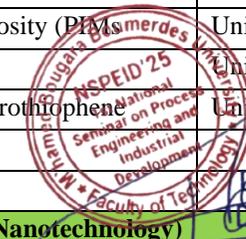


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1st National Seminar on Process Engineering and Industrial Development
Boumerdes, November 05-06, 2025



| Poster Communications / On-Line | | | | |
|--|---------------|-----------------|--|--------------------------------|
| Room 3 (TOPIC 2: Process Engineering of Materials and Polymers, Biomaterials, Nanomaterials, and Nanotechnology) | | | | |
| Session chair Dr. BELLOUL Nabila https://meet.google.com/qwj-nkzn-snn | | | | |
| 9H00-9H05 | T2-P-75 | Aicha HAZMOUNE | Eco-Friendly Synthesis of ZnO Nanoparticles Using Medicinal Plant Extract for Efficient Wastewater Treatment | university of Constantine |
| 9H05-9H10 | T2-P-22 | Amel Bakhouché | Enhanced Sensitivity in Cu-Based Surface Plasmon Resonance Sensors via Hybrid Integration of Halide Perovskite FASnI ₃ and 2D Materials | ENPC, Algeria. |
| 9H10-9H15 | T2-P-33 | Anouar Yahia | Crystallization, optical and electrical properties change on the annealing indium oxide thin films prepared via sol gel spin coating process | Université de Biskra |
| 9H15-9H20 | T2-P-44 | Asma Fares | Sustainable synthesis of bioactive wollastonite | University- Tebessa |
| 9H20-9H25 | T2-P-6 | BABA Fayza | Etude des propriétés physico-chimiques d'une argile Algérienne de la région de Tamanghasset | University of Tamanghasset |
| 9H25-9H30 | T2-P-3 | BELMOKHI Nada | Photocatalytic Performance of Co-Doped ZnAl ₂ O ₄ : A Comparative Study of Chromium and Cobalt Variants | University of Constantine |
| 9H30-9H35 | T2-P-43 | BENNESSER Selma | Advancement of Bio-Derived Polyurethane Foams for Sustainable Thermal Insulation | Université de Sétif |
| 9H35-9H40 | T2-P-36 | BESSAAD Asma | Eco-Friendly Route to SnO ₂ Nanoparticles: Structural and Morphological Investigations | Algiers1 university |
| 9H40-10H00 | Debate | | | |
| 10H00-10H05 | T2-P-32 | BOUDJADJA Yazid | Étude des propriétés structurales et morphologiques d'une cathode de pile à oxyde solide | University of Jijel |
| 10H05-10H10 | T2-P-5 | CHIBANE Nazim | Process Optimization and Biopolymer-Based Encapsulation of Pistacia lentiscus Berries Essential Oil | University of Bejaia |
| 10H10-10H15 | T2-P-93 | Faiza Bouhebila | Electrochemical Sensor Based On Polymers And Nanomaterials For Medical Monitoring | University of Jijel |
| 10H15-10H20 | T2-P-48 | Imene Zitouni | Process Engineering of Enhanced Adsorbents: NaCl-Activated Bentonite for Sustainable Water Treatment | BadjiMokhtar-Annaba University |
| 10H20-10H25 | T2-P-60 | Issam Djabri | DFT Study of Silicene Nanoribbons for Next-Generation AI Devices | University of Annaba |
| 10H25-10H30 | T2-P-27 | Khaled Zeggagh | Synthesis and characterisation of semiconductor materials based on polypyrrole and zno nanoparticles in the presence of various dopants | USTHB |
| 10H30-10H35 | T2-P-92 | Koudri djamila | The Chemistry of Durability: Exploring Bassia Indica Fibers for Eco-Friendly Composites | University of M'sila |
| 10H35-10H 40 | T2-P-39 | Maroua Henni | The effect of training function on predicting the permeability of polymer intrinsic microporosity (PIM) | Université de Médéa |
| 10H40-10H45 | T2-P-63 | Meziani Meriem | Influence of the NaOH/Na ₂ SiO ₃ ratio on the strength of geopolymer mortars. | University of Bejaia |
| 10H45-10H50 | T2-P-19 | Belkafouf Ikram | Efficacité de la récupération lumineuse par de nouveaux matériaux organiques à base de nitroanthracène | Université Relizane |
| 10H50-11H10 | Debate | | | |
| Poster Communications / On-Line | | | | |
| Room 4 (TOPIC 2: Process Engineering of Materials and Polymers, Biomaterials, Nanomaterials, and Nanotechnology) | | | | |



Seminar Chair
Dr. H. BENHAOUA
Dr. S. TOUZOUIRT

1st National Seminar on Process Engineering and Industrial Development
Boumerdes, November 05-06, 2025



| Session chair Dr. STITI Nacera https://meet.google.com/npd-pcan-hke | | | | |
|--|---------------|-------------------------|--|------------------------------|
| 9H00-9H05 | T2-P-64 | Zakaria Adjou | Experimental approach of the effectiveness of residual oil recovery through the injection of silicate and clay nanoparticles into reconstituted porous media based on asphaltene coated sand | University of Ouargla |
| 9H05-9H10 | T2-P-78 | Fayçal Aouadja | Design and Application of a 2.45 GHz Microwave Heating System for High-Temperature Synthesis and Sintering of Ceramic Materials | CRTI |
| 9H10-9H15 | T2-P-4 | MIHOUBI Besma | Preparation and Characterization of Pure and Mg ²⁺ (10 mol%) Doped CaTiO ₃ Powders by Sol-Gel Method: Optical and Photocatalytic Insights | University of Constantine 1 |
| 9H15-9H20 | T2-P-26 | Mohamed El Fatah Nehal | Effect of Thermal Annealing on Zinc Oxide Thin Films Deposited by Spray Pyrolysis for Photovoltaic and Optoelectronic Applications | Tissemilt university |
| 9H20-9H25 | T2-P-56 | Mohammed Aymen Zorgani | Ultrasonic preparation of new nanocomposites : structural, morphological and thermal properties | Université Oran1 |
| 9H25-9H30 | T2-P-41 | Naili Taki Eddine | Influence of prosthesis geometry on the frequency response of the middle ear: insights from finite element analysis | Sidi Bel Abbès University |
| 9H30-9H35 | T2-P-72 | Nawel Redjem | Energy Decomposition Analysis of EthyleneDiamine DiSuccinique (EDDS) | University of Constantine 1 |
| 9H35-9H40 | T2-P-49 | RABEHI Saliha | Functional nanomaterials for nanotechnology applications | UMMTO |
| 9H40-10H00 | Debate | | | |
| 10H00-10H05 | T3-P-48 | Benghalem Nour el houda | The Influence of Curing Parameters on The Alkali Activated Mortar | university of msila |
| 10H05-10H10 | T2-P-74 | Saadi Souheila | Modélisation DFT et TDDFT de la structure et du comportement optique d'un complexe de Nickel | Universitaire de Constantine |
| 10H10-10H15 | T2-P-80 | Yamina AKEB | First-principles analysis of ir ₃ sc in cubic and hexagonal phases: stability, mechanical, electronic and thermodynamique properties | University of Annaba |
| 10H15-10H20 | T2-P-34 | Nour Khelef | Concentrations of hydrogen during the hot-filament chemical vapor deposition process | University of Ouargla |
| 10H20-10H25 | T2-P-69 | Feyrouz NAFA | Role of alcohol in the anodizing process of aluminum alloy 5083: formation of porous anodic alumina | Universitaire de Bejaia |
| 10H25-10H30 | T2-P-70 | AITABDESSELAM Dyhia | CUO nanoparticles : biosyntheses, characterization and antibacterial activity | BEJAIA UNIVERSITY |
| 10H30-10H35 | T3-P-12 | Mansouri Noura | Energy recovery from sugar waste: bioethanol production | Université de constantine |
| 10H35-10H 55 | Debate | | | |
| Room 5 (TOPIC 2: Process Engineering of Materials and Polymers, Biomaterials, Nanomaterials, and Nanotechnology) | | | | |
| Session chair Dr. ZIDI Naima https://meet.google.com/ioe-mrst-mzp | | | | |
| 9H00-9H05 | T2-P-2 | Rabaa Benessedik | A caracterisation study of three rocks samples from Khanguet Sidi Nadji Biskra | University of Ouargla |
| 9H05-9H10 | T2-P-31 | Saida HAOULI | Synthesis and Characterization of Doped ZnO Nanopowders via Precipitation for Electronic Applications | University of Annaba |



Seminar Chair
Dr. F. BENHAOUA
Dr. S. TOUZOUIRT

1st National Seminar on Process Engineering and Industrial Development
Boumerdes, November 05-06, 2025



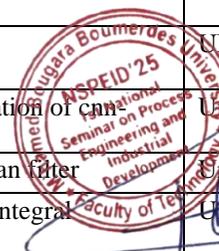
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|---|---------------|----------------------------|---|-------------------------|
| 9H10-9H15 | T2-P-42 | Imene Kadi Allah | Adsorptive Removal of Trypan Blue Using Polyaniline/SnO ₂ Hybrid Nanomaterials: Synthesis, Characterization, and Mechanism Analysis | ESSBO |
| 9H15-9H20 | T2-P-30 | Bouchelarem Naima | First-principles study of CO adsorption on SnO ₂ (110) surface with oxygen vacancy | University of Blida 1 |
| 9H20-9H25 | T2-P-14 | FERHAT Maroua | Production of biocomposite material of date palm | University of Biskra |
| 9H25-9H30 | T2-P-59 | Hayat Hammouche | Keratin Wool-Based Sustainable Materials for Gas Sensing Applications | UMMTO |
| 9H30-9H35 | T2-P-94 | Ait kaci Abdelouahab | Élaboration et caractérisation microstructurale d'un biocomposite à matrice PLA renforcé par des noyaux de dattes | UMMTO |
| 9H35-9H40 | T2-P-82 | Mohammed Laraba | Application of Flotation Process for Improving Kaolin Quality by Removing Iron and Manganese Oxides | University of Tebessa |
| 9H40-10H00 | Debate | | | |
| 10H00-10H05 | T2-P-28 | Nadia Kharchi | Bio-Reinforced Thermoplastics: Thermal and Mechanical Performance with Treated vegetable Fibers | University of Sétif |
| 10H05-10H10 | T2-P-23 | Laouchedi Dalila | Study of the mechanical behavior of a composite based on inject 812 epoxy resin and montmorillonite k10 | University of Bouira |
| 10H10-10H15 | T2-P-68 | Latif Aya | Inhibition of photocatalytic degradation in ga- and bi-co-doped zno nanopowders: implications for sunscreen applications | Université de Biskra |
| 10H15-10H20 | T2-P-17 | Meriem Touil | Valorization of Tendla Sand Resources: A Combined Acid-Leaching and Thermal Treatment Method for Industrial-Grade Silica Production | University of Ouargla |
| 10H20-10H25 | T2-P-55 | Meziane Rahima | Micro-defect detection in transparent ceramics via transmission interferometry | University of Setif1 |
| 10H25-10H30 | T2-P-40 | Abderraouf Seddik | Synergistic effect of Luffa natural fibers and alumina filler on microstructural, thermal and mechanical properties improvement of polypropylene composites | University of Setif 1 |
| 10H30-10H35 | T2-P-11 | BACHIRBEY Mohamed Nabil | Microscratching of wear-resistant alloys Ni-Cr-B-Si-C-W | USTHB |
| 10H35-10H55 | Debate | | | |
| Saturday, November 8, 2025 (Morning) | | | | |
| Poster Communications / On-Line | | | | |
| Room 6 (TOPIC 5: Recycling and Waste Recovery) | | | | |
| Session chair | | | | |
| Dr. KEBOUCHE Zahia | | | | |
| https://meet.google.com/aqu-pyxf-pre | | | | |
| 9H00-9H05 | T5-P-2 | Lamia Benabbes | Techniques de désulfuration des résidus miniers sulfurés provenant de la flottation de la blende : mine de chaabet el hamra | Université de Annaba |
| 9H05-9H10 | T5-P-6 | Abdellatif HAKMI | Eco-Valorization of Industrial Sludge through a Stabilization/Solidification (S/S) Approach for Sustainable Waste Recovery | University of Oran |
| 9H10-9H15 | T5-P-10 | Ait hamadouche Yasmine | Valorization of organic waste: transforming kitchen residues into sustainable materials | ESSBO |
| 9H15-9H20 | T5-P-11 | Hassina Bendjaballah | Valorization of the powdered bread waste as a base medium for amylase production | Université Constantine1 |
| 9H20-9H25 | T5-P-12 | Quartsi Nouha | Treatment of plastic waste by an indigenous soil microbiome | Annaba University |



1st National Seminar on Process Engineering and Industrial Development
Boumerdes, November 05-06, 2025



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|---|---------------|---------------------------|---|--|
| 9H25-9H30 | T5-P-17 | Said Maafa | Recycling and valorization of aluminum waste in ceramic materials development | UMBB |
| 9H30-9H35 | T5-P-19 | Bourema Moufida | Valorization of waste marble powder as a replacement for cement in cellular concrete production | University of Laghouat |
| 9H35-9H40 | T5-P-22 | HEDIA Nacera | FTIR based chemical characterization of fava bean residues for sustainable valorization | university of Chlef |
| 9H40-9H45 | T5-P-25 | Safia Kerbel | Olive pomace : Biochemical caractérisation and valorisation stratégies | UMBB |
| 9H45-9H50 | T5-P-26 | KHODJA Badra | Bioactifs issus de déchets organiques à potentiel antimicrobien | ESSBO |
| 9H50-9H55 | T5-P-5 | MAHMOUDI Fatima | Ecological Degradation of Poultry Feathers: Role of Soil-Isolated Keratinolytic Fungi | Technology of Oran |
| 9H55-10H50 | T5-P-21 | Sarra Bouraoui | Adsorption du cuivre Cu(II) sur un biopolymère extrait d'un déchet végétal : application à la conception d'un biocapteur miniaturisé. | Université de Jijel |
| 9H50-10H15 | Debate | | | |
| Saturday, November 8, 2025 (Morning) | | | | |
| Poster Communications / On-Line | | | | |
| Room 7 (TOPIC 6: Simulation and Artificial Intelligence in Industry) | | | | |
| Moderators | | | | |
| Pr. MAZOUZ Hadj Moulay hmed | | | | |
| https://meet.google.com/nme-oscc-sjb | | | | |
| 9H00-9H05 | T6-P-4 | Amina Nedjouda Benali | Simulation of an autonomous robotic arm for industrial sorting using fuzzy logic | University of Sidi Bel Abbas |
| 9H05-9H10 | T6-P-5 | Abdelbasset BENGUELLOULA | Simulating Non-Equilibrium Boride Formation in Laser-Processed Fe-B Alloys: A Phase-Field Approach | University of Laghouat |
| 9H10-9H15 | T6-P-6 | Amira Ait belkacem | DFT Calculations and Molecular Docking Analysis of Anti and Syn Isomers of simple Mannich-Type Compounds | université de constantine1 |
| 9H15-9H20 | T6-P-7 | KOUACHI Mohamed | Numerical investigation of pin taper angle effects on heat generation and plastic stains in fsw process | University of Bordj Bou Arreridj. |
| 9H20-9H25 | T6-P-8 | Issam Djabri | Smart Materials for Smart Machines: Exploring Silicene Nanoribbons with DFT study for future AI devices | University of Annaba |
| 9H25-9H30 | T6-P-10 | Guechi Nassima | Electronic structure and optical response of cspbcl ₃ : a dft-based insight into lead halide perovskites | université de Guelma |
| 9H30-9H35 | T6-P-11 | Hamdane Housseem | Fault-tolerant second-order sliding mode control for robust speed regulation of a squirrel-cage asynchronous machine under disturbances | University, Annaba |
| 9H35-9H40 | T6-P-12 | ELBEGUE Aref Abderrahmane | AI-Driven Simulation in Industrial Development: Insights from Geoscience Data | UMBB / FHC |
| 9H40-9H45 | T6-P-13 | Boudiaf Rabah | Deep learning-enhanced sliding mode control for fault-tolerant wind turbine systems: integration of CNN based diagnosis and adaptive robust control | University of Annaba |
| 9H45-9H50 | T6-P-14 | Hadji Chaabane | Observer-based sensorless strategy for multiphase induction motor drives via extended kalman filter | Seminar Chair Dr. S. BENHAOUA Université Constantine |
| 9H50-9H55 | T6-P-18 | Ferdjaoui Mostapha | analytical investigation of combined potentials for selected diatomic molecules via the path integral formalism | Dr. S. TOUZOURT |



1st National Seminar on Process Engineering and Industrial Development
Boumerdes, November 05-06, 2025



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|---|---------------|-----------------------|--|------------------------------|
| 9H55-10H00 | T6-P-24 | Yasmine Bouldiab | half-heusler nanoparticles for spintronics applications | University, Mostaganem |
| 10H00-10H20 | Debate | | | |
| Room 8 (TOPIC 6: Simulation and Artificial Intelligence in Industry) | | | | |
| Moderators Dr. MAGHLAOU Leila https://meet.google.com/crp-byom-tzf | | | | |
| 9H00-9H05 | T6-P-1 | LARBAOUI Kheira | Electronic Structure and Magnetic Properties of CuFeS ₂ : An ab initio DFT/GGA+U calibration study | University of Sidi Bel Abbes |
| 9H05-9H10 | T6-P-15 | Ouardia REBAS | Feasibility study for the replacement of a RA1K E-8 condenser with EA-52 air coolers | ENP |
| 9H10-9H15 | T6-P-16 | Amar RAHMOUNI | Water jet impingement heat transfer at low nozzle-plate spacings and higher Reynolds number | USTHB |
| 9H15-9H20 | T6-P-18 | Ferdjaoui Mostapha | Analytical investigation of combined potentials for selected diatomic molecules via the path integral formalism | Université de Constantine, |
| 9H20-9H25 | T6-P-19 | Farida Hakkar | Dft study and admet prediction of a hydrazine-benzamide derivative drug candidate | University of Khenchela |
| 9H25-9H30 | T6-P-20 | Ilhem Aicha AZZOUZ | Cfd analysis of paddle impeller stirred tanks: influence of blade height on mixing performance | University of Chlef |
| 9H30-9H35 | T6-P-22 | Benghorieb Soulef | Nanosilver -plasmon -resonance -based glucose sensing | CRSP |
| 9H35-9H40 | T6-P-23 | Rennou Ghizlene Rahma | Analytical and fem investigation of pressure effects on stresses in damaged pipelines | University of Chlef |
| 9H40-9H45 | T6-P-24 | Yasmine Bouldiab | Half-heusler nanoparticles for spintronics applications | university of Oran |
| 9H45-9H50 | T6-P-15 | Ouardia REBAS | Feasibility study for the replacement of a RA1K E-8 condenser with EA-52 air coolers | ENP |
| 9H50-10H10 | Debate | | | |
| Saturday, November 8, 2025 (Morning) | | | | |
| Poster Communications / On-Line | | | | |
| Room 9 (TOPIC 3: Renewable Energy and New Technology) | | | | |
| Session chair Dr. Nadia Boukherroub https://meet.google.com/gas-qgma-hri | | | | |
| 9H00-9H05 | T3-P-37 | Amiar Ali | Étude de l'effet des facteurs climatiques sur le rendement des cellules solaires photovoltaïques dans l'environnement désertique du sud de l'Algérie (région d'Ouargla). | University of El Oued |
| 9H05-9H10 | T3-P-34 | Bouderbala Feriel | Effect of optimized vortex generators on darrieus turbine blade performance | University of Oran |
| 9H10-9H15 | T3-P-46 | DIB Kheireddine | Optimization and performance analysis of an inverted perovskite solar cell using scaps-1d | University of Constantine |
| 9H15-9H20 | T3-P-9 | Hadjer Chabana | Comparative Performance Analysis of Nature-Inspired MPPT Algorithms for Standalone PV Systems | ENSTI Annaba |
| 9H20-9H25 | T3-P-47 | DIB Kheireddine | Performance Evaluation of a Hybrid Dual-Axis Solar Tracker Controlled by Arduino Coupled to an Improved MPPT Model | UNIVERSITY OF CONSTANTINE |
| 9H25-9H30 | T3-P-40 | Hadji Chaabane | Adaptive backstepping control of doubly fed induction generator (dfig) in wind energy based on Lyapunov | Univ M'sila |

1st National Seminar on Process Engineering and Industrial Development
Boumerdes, November 05-06, 2025



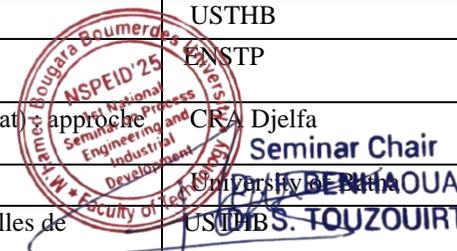
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| | | | theory stability | |
| 9H30-9H35 | T3-P-27 | Lakhder Ayhar | Enhanced Active and Reactive Power Control in Grid-Following Inverters Using Open-Loop Synchronization and PR Regulator for Renewable Energy Integration | University of Tiaret |
| 9H35-9H40 | T3-P-31 | Medjber Ahmed | Reservoir water level control using renewable energy for the supply of a small village | University of Medea |
| 9H40-10H00 | Debate | | | |
| 10H00-10H05 | T3-P-104 | Toubane Mahdia | Enhanced Antibacterial Activity in Sol-Gel Derived Ag/ZrO ₂ -ZnO Nanoceramics | UMBB |
| 10H05-10H10 | T3-O-35 | Mehdi Samira | Comparative Studied Between CH ₃ NH ₃ PbI ₃ and CH ₃ NH ₃ SnI ₃ Based Perovskite Solar Cells | University of Blida1 |
| 10H10-10H15 | T3-P-10 | Mohamed Hamza BENABDELKRIM | Design of Multi-Walled Carbon Nanotube–Acid Fuchsin Photocatalysts for High-Performance Solar-Driven Regeneration of NADH Cofactor | Université de Skikda |
| 10H15-10H20 | T3-P-41 | Mohamed Redha Skender | Artificial bee colony-optimized control for performance improvement of a multicell inverter in a fuel cell system | Medea University |
| 10H20-10H25 | T3-P-20 | Nachida BENSEMMANE | Preparation and characterization of coal ₂ o ₄ as an efficient photocatalyst for hydrogen generation through the water-splitting process | Université BLIDA1 |
| 10H25-10H30 | T3-P-6 | Nadhir ABDELAZIZ | Thermal Performance Evaluation of Concentric, Eccentric, and Sinusoidal Tubes in PCM-Integrated PTCs | Laghouat University |
| 10H30-10H35 | T3-P-32 | Nedjma KASDI | ZnSe Thin Films Synthesized via Electrochemical Deposition: Electrochemical Characterization by CV, CA, and EIS Techniques | Setif 1 University |
| 10H35-10H40 | T3-P-28 | Sadia LAIDI | Thermal insulation and energy demand in mediterranean climate zones | USTHB |
| 10H40-10H45 | T4-P-31 | ZAIRI Souad | Assessment of dissolved oxygen variation in aeration tanks and its effect on activated sludge process efficiency | Tahar of Saida |
| 10H45-10H50 | T3-P-42 | Safa BEGGOUR | Optimisation des paramètres de production de biodiesel par le plan d'expérience Box-Behnken | Université de Annaba |
| 10H50-11H10 | Debate | | | |
| Room 10 (TOPIC 3: Renewable Energy and New Technology) (TOPIC 4: Environment and Water Treatment) | | | | |
| Session chair Dr. BELHOUCIF Rekia https://meet.google.com/ckb-frxv-kgx | | | | |
| 9H00-9H05 | T3-P-30 | Soumia Merah | Enhanced maximum power point tracking in pv systems using pso and dandelion optimization | ENSTI Annaba |
| 9H05-9H10 | T3-P-33 | Walid Azzaoui | Influence of Sn Doping on the Properties of CdO Thin Films for Transparent Conductive Applications | University of Sidi Bel Abbes |
| 9H10-9H15 | T3-P-43 | Yaakoub Saadallah | Nanostructured thin-film composites: from dye-sensitized to perovskite solar cells for advanced renewable energy applications | Setif University |
| 9H15-9H20 | T3-P-13 | ZEHOUANI Zahra Assala | Integrated Material Solutions for Reducing Heat Transfer and Energy Demand in Building Envelopes | University of Ain Tadjemout |
| 9H20-9H25 | T3-P-17 | Cherifa Belabbaci | Critical Role of Thermophotovoltaic Cells in Advancing Renewable Energy Solutions | Université de Tlemcen |
| 9H25-9H30 | T3-P-39 | Hadjer MESSAOUDI | Analysis of the Impact of Climatic Factors on Solar Energy Production in Ouargla Using Python | University of laghouat |



1st National Seminar on Process Engineering and Industrial Development
Boumerdes, November 05-06, 2025



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| 9H30-9H35 | T3-P-50 | Liza Lamini | Improving total sugars recovery from lignocellulosic biomass through innovative pretreatment method | USTHB |
| 9H35-9H40 | T3-P-22 | ANNAB Nassima | Numerical analysis of the high efficiency of InGaN-based photovoltaic cells. | University, Tlemcen |
| 9H40-10H00 | Debate | | | |
| 10H00-10H05 | T3-P- | Bourourou Fares | Pv plant power quality improvement using flc applied on drilling system | UMBB |
| 10H05-10H10 | T3-P- | Salah Eddine SEGHIRI | Tuning morphology in organic solar cells through controlled solvent evaporation | Université d'Oron |
| 10H10-10H15 | T4-P-69 | Samia Saaidia | Electroleaching-Based Removal of Cadmium from Natural Phosphates for Sustainable Water and Environmental Protection | Université el tarf |
| 10H15-10H20 | T4-P-43 | Sarra Mahdi | Tansfert des metaux lourd vers la feve en trios types de sols agricole irrigues par les eaux usee | UMBB |
| 10H20-10H25 | T4-P-46 | SEBTI Souad | Photocatalytic Performance of 2% Mn- and 2% Fe-Doped ZnO Nanoparticles: A Comparative Study. | Constantine University |
| 10H25-10H30 | T4-P-25 | Siali Mohammed El Amine | Synergistic elimination of azo dye: critical contributions of both adsorption and photocatalysis using polyaniline/co-burified bentonite clay | Université de Mascara, |
| 10H30-10H35 | T4-P-57 | Yasmine Benmansour | Magnetized fruit-based biosorbent for dysprosium ions recovery from aqueous solutions | University-Tlemcen |
| 10H35-10H40 | T4-P-37 | Zahra Fedlaoui | Hdtma-modified new algerian illitic/kaolinitic clay for effective removal of difenoconazole pesticide from aqueous media | University of Laghouat |
| 10H40-11H10 | Debate | | | |
| Saturday, November 8, 2025 (Morning) | | | | |
| Poster Communications / On-Line | | | | |
| Room 11 (TOPIC 4: Environment and Water Treatment) | | | | |
| Session chair | | | | |
| Dr. CHABIRA Fares | | | | |
| https://meet.google.com/dau-fmhp-sgv | | | | |
| 9H00-9H05 | T4-P-4 | AMMARI. Abdessattar | Treatment of groundwater in the northern sahara (el oued – algeria) | université de Kasdi Merbah-Ouargla |
| 9H05-9H10 | T4-P-16 | Belaid Taous | Methylene Blue removal from aqueous solution using modified coconut Shell adsorbents | University of Bejaia |
| 9H10-9H15 | T4-P-3 | BELKHIR Meriem | Study And Characterization Of Activated Sludge From An Urban Wastewater Treatment Plant | USTHB |
| 9H15-9H20 | T4-P-6 | BENDADA Kheireddine | Use of oxidants to enhance electroremediation of simulated contaminated soil from Diesel | ENSTP |
| 9H20-9H25 | T4-P-50 | BOUNAB Souhila | Contribution à la caracterisation des parametres physico-chimiques des eaux d'oued m'zi (laghouat) approche analytique et recommandations pour une gestion durable. | CRA Djelfa |
| 9H25-9H30 | T4-P-58 | Brella Djouhaina | Groundwater quality for irrigation in the kebir amont sub-basin of the kebir rhumel basin, algeria | UNIVERSITY OF BOUMERDES |
| 9H30-9H35 | T4-P-13 | DAIMALAH MERIEM | Influence du pH de la solution sur l'adsorption du céfixime par le CuCr2O4-Polystyrène et des billes de polystyrène. | USTHB |
| 9H35-9H40 | T4-P-24 | DERRAG Zaineb | Contribution à l'etude du traitement des eaux usees par la station d'epuration de bouzadger d'ain temouchent | Université Ain |



1st National Seminar on Process Engineering and Industrial Development
Boumerdes, November 05-06, 2025

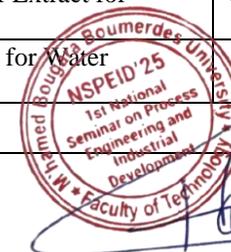


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| 9H40-9H45 | T4-P-73 | Fodil Hanane | Sol-gel synthesis and photocatalytic activities of mixed oxides | University of Biskra |
| 9H45-9H50 | T4-P-61 | Heddi Djawhar | efficacy of local clays in removing basic dyes from textile industry wastewater | Tlemcen University |
| 9H50-10H10 | Debate | | | |
| 10H10-10H15 | T4-P-32 | Haciane Yamina | Effective Photodegradation Of Tramadol From Aqueous Solution Using Citric Acid Functionalized Magnetite Nanoparticles. | USTHB |
| 10H15-10H20 | T4-P-76 | Hamida Bekakria | Assessment of the level of pollution of metallic elements in sediments | University eltarf |
| 10H20-10H25 | T4-P-54 | Lydia TAOURI | Optimization of a micro-sensor for the simultaneous detection of ciprofloxacin and paracetamol in environmental water | Université de Bejaia |
| 10H25-10H30 | T4-P-47 | MADENE Elaid | Etude de la pollution de la nappe alluviale dans les zones semi-arides : cas de la plaine de haut cheliff. | université de Tipaza |
| 10H30-10H35 | T4-P-52 | Mebarka Hakem | Assessment of the environmental impact of brines discharged from desalination plants: case of chatt el hillal desalination plant (ain temouchent city). | University of SAIDA |
| 10H35-10H40 | T4-P-12 | MEZBOUR Samira | La conservation des eaux a partir du leur traitement | Université de Annaba |
| 10H40-10H45 | T4-P-18 | Mohammed Yassine HAMIMED | Application of a novel schiff base ligand for the removal of toxic metals from contaminated water sources | University of Tlemcen |
| 10H45-10H50 | T4-P-20 | Mounira Elhachemi | Synthesis and physicochemical characterization of new calcined layered double hydroxide MgZnCoAl-CO ₃ ; Classical modeling and statistical physics of nitrate adsorption | Université de Blida |
| 10H50-10H55 | T4-P-5 | SEFROU Zeyneb | Extraction of lead from aqueous nitrate media using the emulsion liquid membrane (elm) technique | University of Tlemcen |
| 10H55-11H00 | T4-P-64 | Ouafa BELAIDI | Optimization of the photo-fenton process for crystal violet degradation | Université el tarf |
| 11H00-11H20 | Debate | | | |
| Room 12 (TOPIC 4: Environment and Water Treatment) | | | | |
| Session chair | | | | |
| Dr. ALOUANE Ouisa | | | | |
| https://meet.google.com/esh-tipm-ssz | | | | |
| 9H00-9H05 | T4-P-62 | BENDJAMA Hafida | The impact of organic additives on the photoactivated persulfate degradation of chlorazol black in seawater | Souk Ahras university |
| 9H05-9H10 | T4-P-38 | Bouthaina Achouri | Étude de l'adsorption d'un colorant anionique sur bentonite naturelle modifiée par sds | Université Sétif 1 |
| 9H10-9H15 | T4-P-70 | Benlemmane Widad | Water treatment and methylene blue adsorption onto activated carbon : kinetic and isotherm | University Blida 1 |
| 9H15-9H20 | T4-P-22 | BOUANANI Meriem | Application Of Box–Behnken Design For The Optimization Of Cationic Dye Removal By Adsorption | Sidi Bel Abbes University |
| 9H20-9H25 | T4-P-9 | Bahemmi Sara | A Box-Behnken Design for Optimizing Congo Red Dye Adsorption on CTAB-Activated Illite-Kaolinite Clay: Mechanistic, Equilibrium, and Kinetic Analysis | University of Ouargla |
| 9H25-9H30 | T4-P-77 | HERBACHE Hayat | Elaboration et caractérisation de la bentonite modifiée par chlorure d'aluminium : étude de la rétention du bis-phenol A | Seminar Chair Dr. F. BENHAOUA Dr. S. TOUZOURT |
| 9H30-9H35 | T4-P-72 | IMAMALI Youssouf | Exploring Artificial Intelligence Simulations for Optimizing Wastewater Treatment at Ain El Houtz Plant (Tlemcen) | University of Djelfa |
| 9H35-9H40 | T4-P-33 | Kahina Chelabi | Advanced Photocatalysis for Water Treatment: A Sustainable Strategy for the Degradation of Congo Red | UMBB |

1st National Seminar on Process Engineering and Industrial Development
Boumerdes, November 05-06, 2025



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| | | | and Industrial Effluents | |
| 9H40-9H45 | T4-P-45 | Kouache Amel | Efficiency of green scale inhibitors on calcium carbonate precipitation from hard water: Effect of temperature and concentration | CRTI |
| 9H45-10H00 | Debate | | | |
| 10H00-10H05 | T4-P-44 | Saadi Ahlem Sarra | Development of a Magnetic Adsorbent for Efficient Recovery and Reusability in Wastewater Treatment. | University of Skikda |
| 10H05-10H10 | T4-P-66 | Toumi Khadra Hanane | Comparison of fenton and solar photo-fenton processes for the degradation of p-nitrophenol | Constantine 3 University |
| 10H10-10H15 | T4-P-60 | Zenidi Nesrine | Sustainable Water Treatment through Forest Waste-Derived Adsorbent. | university of biskra |
| 10H15-10H20 | T4-P-78 | Saadi Ahlem Sarra | Study and Characterization of a Plant-Based Biosorbent for Water Treatment | University of Skikda |
| 10H20-10H25 | T4-P-71 | Merzougui Hamza | Bio-functionalization of a sensor for the detection of pesticides | Université de Annaba |
| 10H25-10H30 | T4-O-42 | ABDI Soumia | Analyse comparative de la qualité physico-chimique et bactériologique des eaux de sources et les eaux de citernes durant leurs stockages et distributions | université de Guelma |
| 10H30-10H35 | | Fares Chabira | Eco-Friendly Hydrothermal Synthesis of Zinc Oxide Nanoparticles Using Eucalyptus Leaf Extract for Photocatalytic Applications | UMBB |
| 10H35-10H40 | T4-P-23 | Rachid Lamari | Adsorption and Diffusion Behavior of Cadmium Ions in Zeolitic Imidazolate Frameworks for Water Purification | UMBB |
| 10H40-11H05 | Debate | | | |



Seminar Chair

Dr. F. BENHAOUA
Dr. S. TOUZOUIRT