

TECHNICAL PROGRAM

INTERNATIONAL CONFERENCE ON GREEN SOLUTIONS IN THE OIL AND GAS INDUSTRY SECTOR

**INTERNATIONAL CONFERENCE ON GREEN SOLUTIONS IN THE OIL AND GAS INDUSTRIAL
SECTOR IN PARTENARIAT WITH SONATRACH/DC-R&D AND THE DIRECTORATE GENERAL FOR
SCIENTIFIC RESEARCH AND TECHNOLOGICAL DEVELOPMENT (DGRSDT)**

14-15 May 2025, CCO Oran, Algeria



First day: May 14 2025 at the Conference Hall

Time	Program
08h00 – 08h30	Guest reception and registrations
08h30 – 09h50	HSE Minute. National Anthem.
08h50 – 09h00	Speech by the Director of the DGRSDT
09H00 – 09H10	Opening speech by the Central R&D Director

Time	Plenary Lecture title
09h10 – 09h40	Plenary Lecture 1. Polyurethane Material for Hydrogen Storage Mohammad Mizanur Rahman King Fahd University of Petroleum and Minerals, Dhahran 31261, Saudi Arabia
09h40 – 10h10	Plenary Lecture 2. Unlocking the Future: Challenges and Chances of High Renewable Energy Integration in Smart Grids Mohammed Wadi Küçükçekmece/ Istanbul, Turkiye
10h10 – 10h30	Coffee Break
10h30 – 12h30	Oral presentations for all the sessions
12h30 – 14h00	Lunch
14h00 – 14h40	Plenary Lecture 3. Safe Li ion batteries for the electrification of the society: from mine to recycling Karim Zeghib Department of Chemical and Materials Engineering, Concordia ,Canada
14h40 – 15h20	Plenary Lecture 4. Isolation and Analysis of Plant Chemical Constituents for Corrosion Inhibition Applications Rami Khalid Suleiman King Fahd Univ Petroleum & Minerals, Interdisciplinary Res Ctr Adv Mat, Dhahran 31261, Saudi Arabia
15h20 – 16h00	Coffee Break and Poster Session 1
16h00 – 17h20	Oral presentations for all the sessions
17h20 – 18h00	Round table on green hydrogen

Second day: May 15 2025 at the Conference Hall

Time	Program
08h00 – 08h30	Registration
08h30 – 09h10	Plenary Lecture 5. Risks associated with the transport of new generation energy carriers: hydrogen and ammonia Guy Pluvinage Lorraine University, Metz, France
09h10 – 09h40	Plenary Lecture 6. Paradigm Shift: How desalination is changing water resources availability and allocation in Algeria Yassine Djebbar University of Souk Ahras. Algeria
09H40 – 10h30	Coffee Break and Poster Session 2
10h30 – 12h10	Oral presentations for all the sessions
12h10 – 13h00	Lunch
13h00 – 14h40	Oral presentations for all the sessions
14h40 – 15h30	Round table on green Inhibitor
15h30 – 15h50	Closing Ceremony and recommandations
15h50 – 16h30	Certificates

ORAL PRESENTATIONS TOPIC 01: Green Inhibitors in Oil and Gas sector

First day: May 14 2025 at the Room 01

Chair. Prof. Gana Med Amine (IAP, Boumerdes), Prof. Guedri Abdelmoumene (Univ. Souk-Ahras), Prof. Merzoug Bachir (Univ. Souk-Ahras)

Time	Program
10h30 – 10h50	INTRODUCTIVE : Catalyzing the decarbonization of the Oil and Gas Sector: Main Routes, Opportunities, and Challenges. ZIGHED Mohammed, Salim Mekki Boualleg M'Hamed Bougara University, Boumerdes, Algeria,
10h50 – 11h10	MessaadiLoñi, Zerrouki Brahim, Benzait Brahim, <u>Traitement des Déchets Solides et Liquides des Bourbiers Industriels de Hassi R'Mel</u> , Sonatrach
11h10 – 11h30	Kebour djamila, Kebour Omar, MEKADEMI Karima, <u>Impact d'une contribution en super absorbant MGF (Miracle Green Formula) sur la performance du poivron (Capsicum annuum L.)</u> , SaadDahleb University, Blida
11h30 – 11h50	MOKHNACHE Kamel, BERDI Yassine, GUEDJO SeyfEddine, KARDJOUJ Yassine , <u>Predicting Novel Corrosion Bio-Inhibitors: QSAR Models and Applications on Amino Acids</u> ,

	Hassiba Benbouali University, Chlef
11h50 – 12h10	TAHRAOUI Abdelmalik, GHIABA Zineb, ZOBEIDI Naoual, TABCHOUHE Ahmed, <u>Synthesis and Application of Schiff Base-Functionalized Polymers for Sustainable Water Treatment in EOR</u> , Kasdi Merbah University, Ouargla
12h10 – 12h30	Abdelhalim AIT IDIR, <u>Solutions technologiques avancées pour le traitement écologique des boues de fond de bacs de stockage de pétrole brut</u> , Central Direction of Research & Development, Sonatrach
16h00 – 16h20	M.A. DJERIDANE, O. BOULEDROUA, <u>Techniques d'Évaluation des Bio-contaminants pour la Réduction des Emissions des Turbines à Gaz</u> , Failure Analysis Laboratory, SH-MNL, Sonatrach
16h20 – 16h40	Hasnaouimostafa, dehmanisiham, <u>Culture de microalgues dans les eaux usées industrielles des régions arides</u> , Ahmed Draieya University, Adrar
16h40 – 17h00	Fatiha LASSOUANE, Abdelhamid MRAOUI, <u>Electrochemical Hydrogen Production from Wastewater: A Sustainable Pathway for the Oil & Gas Industry</u> , Renewable Energy Development Center
17h00 – 17h20	Abdelhakim MAIZIA, Hadjer DIDOUH, Mohammed Hadj Meliani, <u>Enhancing Pipeline Integrity: Applications of Artificial Intelligence with Green Corrosion Inhibitors in the Oil and Gas Industry</u> , Hassiba Benbouali University, Chlef

Second day: May 15 2025 at the Room 01

Chair. Prof. Gana Med Amine (IAP, Boumerdes), Prof. Guedri Abdelmoumene (Univ. Souk-Ahras), Prof. Merzoug Bachir (Univ. Annaba)

Time	Program
10h30 – 10h50	INTRODUCTIVE: Hadjer DIDOUH, Mohamed HADJ MELIANI, Omar BOULEDROUA, <u>In-House Plant-Based Corrosion Inhibitor Solutions for the Algerian Oil Industry</u> , Hassiba Benbouali University, Chlef
10h50 – 11h10	Khoudjia HOUHOU, Nouha BENHENDA, <u>Digital Twins and Destructive Innovation: Accelerating Green Solutions in the Oil and Gas Industry</u> , Ecole Nationale Supérieure en Statistique et en Economie Appliquée
11h10 – 11h30	R. Ouargli Saker, A. K. Lachachi, K. N. SEKKAL, <u>Modified microporous and mesoporous by iron nanoparticles for sustainable water treatment</u> , Mohamed Boudiaf University, Oran
11h30 – 11h50	GUENOUN Nassima, BENREGUIEG Mokhtar, BENABBOU Taha Ahmed, <u>Evaluation of the emulsification activity of crude oil by isolated indigenous Bacteria</u> , Dr MOULAY TAHAR University, SAIDA
11h50 – 12h10	SILAKHAL Mohamed Anis, GUESSOUM Khadoudj, <u>Degradation of Organic Pollutants By Photocatalysis using CeMnO₃ Perovskite</u> , Abderrahmane Mira University, Bejaia

13H00 – 13h20	Gaidi Fayçal, Toukal Linda, <u>Green corrosion inhibitors and their applications in the oil and gas industry; theoretical approach,</u> Sonatrach
13H20 – 13h40	SIHEM LAHROUR, Benabderrahmane Abdelbadr , BrahimBouras , <u>Glycerin-Grafted Starch as Corrosion Inhibitor of C-Mn Steel in 1MHCl solution,</u> Aboubekr Belkaid University, Tlemcen
13H40 – 14h00	Nor El Houda Aouedj ,Houaria Benkhedja , Boumediene Haddou, and Halima. <u>Ghouas, Removal of atrazine from aqueous solution using cloud point method,</u> Mohamed Boudiaf University, Oran
14H00 – 14h20	Wissame Chettah,Siham Barama a, Amel Boudjemaa, Akila Barama, <u>Clean production of H2 using photo-electrochemical dissociation of water under visible-light over different Cu-TiO2 heterojunctions.,</u> USTHB, alger
14H20 – 14h40	ChafiaBouaslaa, ImadeddineBelhani, AchourKhaoulad, MokraniKamilia,Mohammed Mahdia, Mohamed HadjMeliani, <u>High-Performance Ni-Fe-Mo Alloys for Efficient Overall Water Splitng in Green Hydrogen Production,</u> Center for Development ofAdvanced Technologies, Algiers

ORAL PRESENTATIONS TOPIC02: Pathways to Decarbonization in the Oil and Gas Industry

First day: May 14 2025 at the Room 02

Chair. Prof. Fodil Hammadi (Univ- Bechar), Prof. Guy Pluvinae, Prof. Aid Abdelkrim (Univ-Mascara), Prof. Khadri Youcef (Univ-Annaba)

Time	Program
10h30 – 10h50	INTRODUCTIVE: Khelifa Abdellah Saad dahlab university , Blida
10h30 – 10h50	ATROUT Abderazak Smail, BENSAYA Abdessalem, El HAMEUR Mohamed Amine, SEHILI Youcef, CERDOUN Mahfoudh, TARABET Lyes , <u>Contribution to the Design of Radial Turbines for Supercritical CO2 Power Cycles,</u> Ecole Militaire Polytechnique, Algiers.
10h50 – 11h10	Chahrazad Rahmani , <u>Comparative Analysis of Machine Learning Models for Predictive Emissions Monitoring in Gas Turbines,</u> Kasdi Merbah University, Ouargla
11h10 – 11h30	Youcef SEHILI , Mahfoudh CERDOUN , Lyes TARABET , <u>Optimizing ammonia combustion in dual-fuel engines: The role of piston bowlshape and pre-combustion chamber integration,</u> Ecole Militaire Polytechnique, Algeirs.
11h30 – 11h50	BeddiAbdelraouf, HichamSerhoud , HebbirNacer , <u>Optimizing the Control System of PV Stations during National Grid</u>

	<u>Losses using Energy Resilience Strategy,</u> EchahidCheikhLarbiTebessi University, Tebessa.
11h50 – 12h10	BENBRIKA Omar, ALILI Bachir , <u>Hydrogen production of from the thermochemical cycle using the exhaust heat of a gas turbine,</u> GSP HassiR'mel/RTO/TRC, SONATRACH.
12h10 – 12h30	ABBAS MANSOUR LEILA, MAROUF HAFIDA , <u>Valorisation des vases de barrages en Algérie : une stratégie d'économie circulaire pour des matériaux de construction durables et énergétiquement efficaces,</u> HouariBoumedién University, Alger.
16h00 – 16h20	Adel Deliou, KhmissiBelkaidb, MeriemDehbi, bdelkaderFidjahd , <u>Etude des performances d'un distillateursolaireSymétrique</u> Mohamed seddik ben yahia University, Jijel.
16h20 – 16h40	LotfiBeghdadi , RedouaneKoulli, AissaniMouloud, Halim Zitouni , <u>Sustainable Manufacturing in the Oil and Gas Sector: Leveraging Friction Stir Welding and Additive Manufacturing for Eco-Friendly Solutions,</u> Research Center in Industrial Technologies.
16h40 – 17h00	KhathirHamdani , <u>Hydrogen Blending in Natural Gas: Algerian Potential and Feasibility Analysis,</u> Sonatrach.
17h00 – 17h20	CHACHOUA AMIRA, LAOUEDJ Zouaoui , <u>Green Management et transition énergétique : Stratégies innovantes basées sur le capital humain pour une performance durable,</u> AboubekrBelkaid University, Tlemcen.

Second day: May 15 2025 at the Room 02

Chair. Prof. Bouasla (CDTA), Prof .YuryMatvienko (Russia), Prof. Rami Khaled Suiema (KSA)

Time	Program
10h30 – 10h50	INTRODUCTIVE IHDENE Zaher, DRIEF Radouane , <u>Matériaux biosourcés et catalyseurs verts : Défis d'avenir en bioraffinage et en chimie durable</u> Central Direction of Research & Development, Sonatrach.
10h50 – 11h10	KAOUALLA Fatima, KERBOUA Mohammed , <u>Carbon Capture and Storage in Algeria,</u> ADA, Chlef.
11h10 – 11h30	SaadaouiFarid, BoumedieneBenabdallahSereir, AbderahmaneSenoussaoui , <u>Analytical Study of Critical Cases of a PEMFC Hybrid System Based on Hydrogen Consumption for a More Electric Aircraft (Causes and Solutions),</u> MostafaStambouli University, Mascara.
11h30 – 11h50	EL AHMAR YAMINA, A.HALLOUCHE,A.DAHANI, A.ZAOUI ,S.KACIMI, Z. HADDOUCHE, M.DJEBARIA, A.BOUKORTT , <u>First-Principle Simulation of Ferromagnetism in Gd-Doped Mg₂X (X=Si, Ge and Sn),</u> DjillaliLiabes University, SidiBel Abbes.
11h50 – 12h10	Habib MESSABIH, Hayet LEBSIR , <u>La contribution verte et les investissements du Complexe GP1Z pour réduire les gaz à effet de serre,</u>

	Mohamed Boudiaf University, Oran.
13H00 – 13h20	KERIKEB MOHAMED , REHAIL AMAR , ZAIDI AHMED , <u>Energy Efficiency Improvement in Process Industries based advanced process control,</u> Sonatrach.
13H20 – 13h40	Kamel OUTOUATI , <u>Etude et analyse de système de production, stockage, et distribution del'hydrogène</u> Sonatrach.
13H40 – 14h00	SALIM BELGHIT , <u>Study of the Performance and Emissions of Dual Fuel Diesel Engine with LPG asSecondary Fuel,</u> ENTP.
14H00 – 14h20	Menad Nait Amar , <u>Explainable artificial intelligence for predicting carbon dioxide solubility in deep eutectic solvents: Toward effective and green solutions for carbon dioxide emission mitigation,</u> Sonatrach
14H20 – 14h40	MOHAMMED BOUKHALFA, ABDELHAMIDKHEIRI, NICOLAS BLET, MICHEL FEIDTD, <u>Performance enhancement of parabolic trough collector using a capillary heat pipe,</u> IbnKhaldoun University, Tiaret.

ORAL PRESENTATIONS TOPIC 03: Innovative Biofuel Technologies in the energy Sector

First day: May 14 2025 at the Room 03

Chair. Prof. Mohamed Boudia (Univ-Skikda), Prof. AbdelkaderHocine (Univ-Chlef), Prof. Youcef Hamlaoui (Univ-SoukAhras)

Time	Program
10h30 – 10h50	Repurposing natural gas pipelines for hydrogen transportation: state of the art and gaps between modelling results and experimental tests outcomes Hafsi Zahreddine. CNR-ITAE, ITALY
10h50 – 11h10	Imadeddine Belhani , ChafiaBouasla, Mohamed HadjMeliani, Mohamed Mahdib , <u>Ni-Mn-X [X=Co, Fe] Electrocatalysts for Green Hydrogen and Oxygen Evolution: Enhancing Performance and Stability,</u> HassibaBenbouali University, Chlef
11h10 – 11h30	Mourad Bendaoui, Menad NAIT AMAR , <u>Deep Learning-BasedModeling of CO2 Solubility in IonicLiquids: A NovelApproach for CO2 Capture.</u> Sonatrach

11h30 – 11h50	Djeffallsraa, Tabarourt Malek, KhtirSidi Mohammed Abdelatif, Yahi Lina, MegherbiRadjaa, MessaidBachirEddine, AllaHocine , <u>Eco-Friendly ZnO/SiO₂Nanocomposite-Based Nanofluids for Enhanced Oil Recovery</u> , M'Hamed BOUGARA University, Boumerdes
11h50 – 12h10	BELIMANE Zakarya , YOUCEFI Mohamed Ryad , BENBRIK Abderrahmane , HADJADJ Ahmed , <u>A numericalapproach for assessingCarbon Storage in depletedsubsurfacereservoirs</u> , M'Hamed BOUGARA University, Boumerdes
12h10 – 12h30	Nawel OUTILI , Halima KERRAS, Hania CHENNI , <u>FromResearch to Industry: Patent Trends in Composite and Polymer-BasedHydrogen Storage</u> , Salah Boubnider University, Constantine
16h00 – 16h20	Rehailamar , BourasImane , <u>Optimizing Thermal Desalination Processes: Challenges, Performance Assessment, and Sustainable Solutions for the Oil and Gas Industry</u> , Technical Direction, Petrochemicals Division PEC, RPC Activity, SONATRACH
16h20 – 16h40	SoufianeGuella, Ali Mustapha Benkouider, Mohammed El Amin Said, Mohamed. El Amine Guet, BaiticheChahinez, MadaniAddaBoucheikh,Economic comparison of different flared gas recovery methods. Case study:GL2/Z plant Arzew- Algeria DjillaliLiabes University, SidiBel Abbas
16h40 – 17h00	SoufianeGuella, Mohammed El Amin Said, Ali Mustapha Benkouider, Mohamed. El Amine Guet, BaiticheChahinez, MadaniAddaBoucheikh, <u>Hydrogen production from flared gases at GL2/Z LNG plants Arzew-Algeria</u> , DjillaliLiabes University, SidiBel Abbas
17h00 – 17h20	KERBOUA Mohammed , KAOULALA Fatima. <u>Algerian Green Hydrogen Production Opportunities and challenges in light of a sustainable energy system</u> , Sonatrach

Second day: May 15 2025 at the Room 03

Chair. Prof. Mohamed Boudia (Univ-Skikda), Prof. Abdelkader Hocine (Univ-Chlef), Prof. Youcef Hamlaoui (Univ-SoukAhras)

Time	Program
10h30 – 10h50	Redouane Bouarour , <u>Accurate prediction of CO₂ uptake in metalorganicframeworks using gene expression programming</u> , Mohamed Boudiaf University, Oran.
10h50 – 11h10	Hakim DJEMA , <u>Modeling Carbon Dioxide Absorption in Nanofluids Using CatBoost and Grey Wolf Optimization: Enhancing Sustainable Solutions for CO₂ Emission Reduction</u> , Sonatrach
11h10 – 11h30	Abdenourmenaa, AMOKRANE Samira , <u>Effect of hydrogen injection quantity into natural gas pipeline on the gas mixture properties and flow performance</u> , M'Hamed BOUGARA University, Boumerdes
11h30 – 11h50	Khaled Ourabah, FouadAniba,Biopolymères: <u>Une alternative verte pour les applications en recuperation assistée des hydrocarbures (EOR)</u> , Sonatrach

11h50 – 12h10	HocineTerrab, <u>Decarbonizing Algeria: Strategies, Challenges, and Policy Pathways Toward a Low-Carbon Economy</u> , EcoleAlgériennesuperieure des affaires & GE VERNOVA company, Algeria
13H00 – 13h20	BOULAKTOUT Nouredine , <u>Releasedgasrecoveryduringgas pipeline repairwork by recompression</u> , Sonatrach
13H20 – 13h40	Amokrane Samira, Mena Abdenour , <u>Recentdevelopments in Carbone Capture and Utilization process technologies</u> , Sonatrach
13H40 – 14h00	AHMEDI Wissam N.E.H , LENCHI Nesrine,c, SELLAL Abdelhakimd, <u>Indigenous Bacteria for Sustainable Water Treatment and Enhanced Oil Recovery: Biodegradation and Biosurfactant Production</u> , Ferhat Abbas University, Setif
14H00 – 14h20	Lyes ABBASSEN , HADDANA Samih , AmrouMouhamedHocemeddine, <u>Electrification and the challenges of integrating renewable energy into oil and gas production</u> , Sonatrach
14H20 – 14h40	MAIZIA Abdelhakim, Abdelhamid GHOUAOULA, HOCINE Abdelkader, LOUZA Abdelkader, HABBAR Ghania, BEAZI Abderrezak , <u>Estimation of Failure Pressure in Corroded Pipelines for Hydrogen Applications Using Regression Techniques</u> , HassibaBenbouali University, Chlef

ORAL PRESENTATIONS TOPIC 04: Sustainable Biomass Sourcing and Supply Chains

First day: May 14 2025 at the Room 04

Chair. Prof. Mohamed Deghmoum (Sonatrach), Prof. Hassen Mahmoudi (ES), Prof. Yassine Djebbar (Univ-Souk Ahras)

Time	Program
10h30 – 10h50	Effectiveness study on vegetable oil-based biodiesel blends usage as a clean alternative to traditional fuels Zied Driss National School of Engineers of Sfax (ENIS), Tunisia
10h50 – 11h10	CHERITI Yasmine , CHEBAB ZohraNourhane , ARAB Kamal, <u>Leveraging Blockchain and Artificial Intelligence in Oil and Gas Trade: A Benchmarking Approach for Sustainable Trade Optimization</u> , ECOLE SUPERIEURE DE COMMERCE, Alger
11h10 – 11h30	AbdellahMekedeme, Samir Benammar, <u>Numerical Studies on Optimizing Drilling Mud and Bit Combinations for Enhanced Performance in Algerian Oil and Gas Operations</u> , HassibaBenbouali University,Chlef

11h30 – 11h50	KAOULALA Fatima, KERBOUA Mohammed, <u>Carbon Capture and Storage in Algeria</u> , ADA, Chlef
11h50 – 12h10	DairiSabri , MechentelElhadi , Bouamrane Ali, DjebbarYassine , Abida Habib, <u>Predicting Groundwater Suitability for Irrigation with Temporal Fusion Transformer: A Case Study in Southern Algeria</u> , Mohamed CherifMessaadia University , Souk Ahras
12h10 – 12h30	MDEDEKHEL Lamine, ZahirKhoufache, <u>Enhancing Ni-Cd Battery Performance: Mitigating the Memory Effect in Turbine Engine Lube Oil Emergency Systems</u> , Mohamed KHIDER University, Biskra
16h00 – 16h20	Mohamed DEGHMOUM , Kamel BERKACHE, <u>Impact of Carboxymethyl cellulose concentration on the rheological behavior of Bentonite suspensions used in WBM: shear-thinning, yield Stress, and viscoelastic properties</u> , Central Direction of Research & Development, Sonatrach
16h20 – 16h40	Abbes Gouri, <u>Unveiling Refractive Index Trends in Ionic Liquids Through Machine Learning</u> Sonatrach
16h40 – 17h00	AmmarChakhrit , AbdelmoumeneGuedri, <u>Mitigating Containment Failures in LPG Storage: A Structured Analytical Approach</u> , Mohamed Cherif Messaadia University , Souk Ahras
17h00 – 17h20	Fethi Bennour, <u>On the Progressive Conversion of the Natural Gas Pipeline Transportation Network to the Transportation of Green Hydrogen Produced by Sonatrach</u> , Sonatrach

Second day: May 15 2025 at the Room 04

Chair. Prof. Mohamed Deghmoum (Sonatrach), Prof. Hassen Mahmoudi (ES), Prof. Yassine Djebbar (Univ-Souk Ahras)

Time	Program
10h30 – 10h50	INTRODUCTIVE : <u>API 5L X70 steel</u> , GANA Mohamed Lamine ,KEBBOUCHE Salima, Sonatrach
10h50 – 11h10	zakariasihadjmohand, <u>Predicting Nitrous Oxide Solubility in Ionic Liquids Using Advanced ArtificialIntelligence Models</u> , Direction centralerecherché &developpement, Sonatrach
11h10 – 11h30	Khelil foudil, BENAOU FATIMA M.H. Sefiani, <u>Thermal Fins and Their Efficiency under Different Convection Conditions</u> , Mostafa Stambouli University, Mascara
11h30 – 11h50	R. BOUMEDMED , H. RAYAH, F. ABED , I. BENSLIMANE, S.A. GAFFOUR, <u>RISK BASED INSPECTION (RBI) OF HYDROGEN EMBRITTLMENT</u> , Algerian Petroleum Institute (IAP) Sonatrach
11h50 – 12h10	Kebour Omar, Mokdad Hayat, KebourDjamila, <u>Treatment of Water Contaminated by Petroleum Products: Approaches</u>

	<u>and Technologies</u> SaadDahleb University, Blida
13H00 – 13h20	Amina Chahtou, ZenakSiham, <u>Smart PV-Hydrogen Microgrids for Coastal Resilience: Techno-Economic and Environmental Performance in Algerian Communities,</u> Centre de Développement des Energies Renouvelables
13H20 – 13h40	F. ABED, H. RAYAH, L. AMAROUCHE, <u>New approach for the treatment of industrial wastewater,</u> Sonatrach
13H40 – 14h00	BOUKHAMLA Fatima zohra, ZEMANI Farah, LADJEDEL Omar, SEREIR Tewfik, <u>The influence of magnetic field and nanoparticle volume fraction on natural convection in a square cavity filled with Al₂O₃ – Water nanofluid containing a heated horizontal cylinder,</u> Mohamed Boudiaf University, Oran
14H00 – 14h20	Amina ZERADNI, Somia DJELLOUL BENCHERIF, Abdellah BAHMANI, N.BETTAHAR, <u>Removal of Inorganic Pollutants From Wastewater,</u> Mohamed Boudiaf University, Oran
14H20 – 14h40	Zaouifatih, Khlefaoui Ahmed, Boucif Fatima, HabibiAsmaa , ChoumaneFatima zohra, <u>Fuchsin a Cationic Dye and its Removal from Aqueous solution by the cores of dates</u> Dr MOULAY TAHAR University, SAIDA

ORAL PRESENTATIONS TOPIC 05: Sustainable Water Treatment for Enhanced Oil Recovery

First day: May 14 2025 at the Room 05

Chair. Prof. Mohammed Hadj Meliani (Univ. Chlef), Prof. Khelifa Abdellah (Univ. Blida), Prof. Merzoug Bachir (Univ-Annaba)

Time	Program
10h30 – 10h50	INTRODUCTIVE: <u>Researcher & engery expert.</u> Mohamed Ghazli, Germany
10h50 – 11h10	A. Daas , H. Khelifi , O. Allaoui, <u>Effect of Microstructure on Fatigue Resistance of API X70 Steel,</u> Ziane Achour University, Djelfa 20 août 1955 University, Skikda
11h10 – 11h30	Lamia BENHABYLES, Meryem SABER, <u>Bioconversion of lignocellulosic biomass for large-scale biogas generation,</u> Renewable Energy Development Center
11h30 – 11h50	Toufik TAHRI , Mohamed DEKKICHE, <u>A technical and economical comparison between hybrid solar/biomass and hybrid solar/ diesel systems for the electrification of an isolated area in the Chlef region,</u>

	HassibaBenbouali University, Chlef
11h50 – 12h10	Abderrahmen BENBOUALI , Taieb BESSAAD, Fayçal CHABNI, <u><i>From Sensing to Decision-Making: Integrating IoT and Machine Learning for smart Biomass Storage Management</i></u> , HassibaBenbouali University, Chlef
12h10 – 12h30	Mohamed DEKKICHE , Toufik TAHRI, <u><i>Beyond diesel: Evaluating biomass as a sustainable alternative for stand-alone energy systems-technical performance, economic viability, and environmental impact</i></u> , Hassiba Benbouali University, Chlef
16h00 – 16h20	Sara Ramdoun, Arezki Boukhalfa, <u><i>Simulation Numérique du Comportement De Fissure dans Les Pipelines types Acier inoxydable</i></u> SaadDahleb University, Blida
16h20 – 16h40	Mohamed Mostefaoui, <u><i>FLUID MODELING OF METHANE DISSOCIATION IN DIELECTRIC BARRIER DISCHARGE</i></u> HassibaBenbouali University, Chlef
16h40 – 17h00	TADMOURT Wahiba, BENHOUHOU MessaoudaSoumia. <u><i>Optimisation des ParamètresClés du Prétraitement pour uneValorisationEfficace de la Biomasse en Ethanol</i></u> , EcoleNormaleSupérieure, Béchar
17h00 – 17h20	Rekbi fares Mohammed Laid, <u><i>contribution to wastewater treatment with plants</i></u> , Research center in Industrial Technologies, Alger

Second day: May 15 2025 at the Room 05

Chair. Prof. Mohammed Hadj Meliani (Univ. Chlef), Prof. Khelifa Abdellah (Univ. Blida), Prof. Merzoug Bachir (Univ-Annaba)

Time	Program
10h30 – 10h50	INTRODUCTIVE : Algeria at the Heart of the SOUTH CORRIDOR: A Strategic Partnership for Europe's Energy Future Hocine Abdelkader. Hassiba Benbouali University, Chlef
10h50 – 11h10	Mohamed-amine EL HAMEUR , Mouaad BELGUEDRI, MahfoudhCERDOUN,LyesTARABET, Giovanni FERRARA <u><i>Numerical Feasibility Study of an Electrically Driven Automotive Turbocharger</i></u> , EcoleMilitairePolytechnique, Algiers
11h10 – 11h30	SeddaouiNesserine, khoussahadja, kaddamehala, Bendaoud Nadia, <u><i>Impact des géométries de texture sur les</i></u>

	<u><i>paliers hydrodynamiques : Une analyse numérique.</i></u> Mohamed Boudiaf University, Oran
11h30 – 11h50	A.Lairedj, A.Abdelmalek, A.Zeghamri, <u><i>Development of indigenous composite materials for use in CNG and LPG pipelines.</i></u> Tahri Mohamed University, Bechar
11h50 – 12h10	Kamla Youcef, Foukrach Mohammed , CHACHI Mohamed , HadjMeliani Mohammed, <u><i>Numerical Study of Heat Transfer Enhancement in a Tubular Heat Exchanger.</i></u> Hassiba Benbouali University, Chlef
13H00 – 13h20	HABBAR Ghania, Abdelkader HOCINE, Abdelhakim MAIZIA, Levent AYDIN, Abderrezak BEZAZI, and Omar BOULEDROUA., <u><i>Failure Investigation of an Eco-Sandwich Composite Pipe for Oil and Gas Industry Applications Under Dynamic Mechanical Loading.</i></u> Hassiba Benbouali University, Chlef
13H20 – 13h40	Bouaksa Fethia , Makhfi Haithem, Belouadi Yacine S.A, Makhfi Souâd, <u><i>Caractérisation Expérimentale des Joints de Soudure en Acier C10 via le contrôle CND.</i></u> Mohamed Boudiaf University, Oran
13H40 – 14h00	I. Belouddane, A. Khorsi, M. Hamel, F. Guerrab, <u><i>Enhancing Film Cooling Efficiency in Gas Turbines.</i></u> Mohamed Boudiaf University, Oran
14H00 – 14h20	KEBBOUCHE GANA SALIMA, GANA MOHAMED LAMINE, <u><i>Treatment of biocorrosion with biotechnology and green chemistry processes.</i></u> M'Hamed BOUGARA University, Boumerdes
14H20 – 14h40	BENBRIKA Omar, ALILI Bachir, <u><i>Hydrogen production of from the thermochemical cycle using the exhaust heat of a gas turbine.</i></u> GSP Hassi R'mel/RTO/TRC, SONATRACH

Poster Sessions First Day 15/05/2025

CHAIRS : Khaled zizouni (univ- bechar) , Aid abdelkrim (univ- mascara), azzedine Belalia (univ- chlef), gana Mohamed amine (IAP- Boumrdes), iheden lazher (DCRD- Boumrdes) , ZIGHED Mohammed (univ- Boumrdes), Youcef Khadri (univ-Annaba), Youcef Hamlaoui (Univ-Souk Ahras)

ID	Authors	Title	Institution
ICGS003	Elmahdi Baali, Hamza Laksaci	La magie de sable catalyseur pour l'énergie et la protection de l'environnement	Ahmed Draieya University, Adrar
ICGS006	Belbachir Ghalem, Bouafia Farida	Thermo-Mechanical Behavior of Silver-Alumina Bimaterial: Influence of Structural Defects	Djillali Liabes University, Sidi Bel Abbes
ICGS008	Fatima Zahra KHEDIM, Mohammed HADJ MELIANI, Mouna AMARA	Effectiveness of plant extract in preventing corrosion in oil and gas pipelines	Hassiba Benbouali University, Chlef
ICGS010	Mounira Bourebia, Soumaya Meddah, Sihem Achouri, K. Bouhamla, Amel Olabbas, Ahlem Taleb, Walid Ghennai, Salah Remili, Lakhdar Laouar	Surface Characterization of Low-Alloy Chromium-Molybdenum Steel After Superficial Plastic Deformation by mean of the fractal Dimension	Research Center in Industrial Technologies
ICGS011	Fethi ABED , Houari RAYAH, Lemia AMAROUCHE	Synthesis and Evaluation of Novel Heterocyclic Compounds Derived from 1,3,4 -Oxadiazole as antibacterial and anticorrosion inhibitors for carbon steel X-60	Sonatrach
ICGS019	Kheira BENAÏSSA, Sarra ASSAOUI, Mohammed BENATALLAH	Comparative Analysis of Biogas Production from Anaerobic CoDigestion of Banana Peels, Potato Peels, Dromedary Dung, and Sewage Sludge Water under Mesophilic and Thermophilic Conditions in Tamanrasset city (Southern Algeria)	Amine ellokkal el hadj moussa University, Tamanrasset
ICGS022	Mohamed MOSTEFAOUI, Toufik Tahri	THE ROLE OF POWER SUPPLY WAVEFORM IN DETERMINING THE PROPERTIES OF RF CAPACITIVELY COUPLED H ₂ /He PLASMAS	Hassiba Benbouali University, Chlef
ICGS036	Hanifi Melouka, Boukhatem Zineb Faiza	Using cellulosic bacteria to produce biogas from anaerobic digestion of municipal waste	Ahmed Ben Bella Oran1 University.

ICGS041	Mohammed FOUKRACH , Youcef KAMLA , Manal GRIBI , Hassina DAMECHE	Modélisation thermodynamique d'un cycle de réfrigération	Hassiba Benbouali University, Chlef
ICGS042	Mohammed FOUKRACH, Youcef KAMLA, Riadh GUELLAOUI	Analyse thermodynamique et optimisation du cycle de Linde à double détente pour la liquéfaction de l'azote sous MATLAB	Hassiba Benbouali University, Chlef
ICGS045	F. TALHAOU; I.YSSAA, F.HAMIDI.	Activité catalytique de la zéolithe BEA dopée au cuivre dans l'oxydation du phénol en présence du peroxyde d'hydrogène	Mohamed Boudiaf University, Oran
ICGS048	bouchra benabdallah,HADDOU BOUMEDIENE, OUSSADI KARIMA	Cloud Point Extraction of Heavy Metals for Sustainable Industrial Water Treatment in the Oil and Gas Sector	Mohamed Boudiaf University, Oran
ICGS057	Makhfi Souâd, Aboshighiba Hicham, Hadj Meliani Mohammed	Caractérisation et Évaluation Préliminaire de l'Effet Inhibiteur de Corrosion de Deux Plantes Médicinales Algériennes sur les Aciers API 5L-X52 et API 5L-X60 des Pipelines	Ibn Khaldoun University, Tiaret
ICGS062	A M BELOUNIS , Z SI HADJ- MOHAND, A TOUIL, L ABBASSEN, S HADDANA	Optimization of Water Treatment Technologies for Low Salinity Water Flooding and Enhanced Oil Recovery	Central Direction of Research & Development, Sonatrach
ICGS068	Mohamed. A. MEDEBBER,Belkacem OULD SAID, Nouredine Reteil	Numerical Study of Combined Convective heat transfer and surface radiation through a coaxial conical cavity	Mostafa Stambouli University, Mascara
ICGS072	bouyahiaoui issam, Zahaf billel, Saoud Abdesselam	Synthesis of Methyl Tert-Butyl Ether (MTBE) from Methanol and Isobutene	M'Hamed BOUGARA University, Boumerdes
ICGS073	MEHADJI Abdelillah Kamel Eddine, MECHERIA Khaled, BOUDALIA Fouzi	Le transport Maritime et la Décarbonation	Hyproc Shipping Company
ICGS074	Chahrazed Benamara	Machine Learning for Predicting H2S Solubility in Ionic Liquids: A Step Toward Greener Gas Treatment	Sonatrach
ICGS076	Amina BOUDOUAYA , Meriem BELHACHEMI, Nawal KADDOURI	Biochar Derived from Algerian Lahmira Date Pits: A Sustainable Fertilizer for Arid Land Sandy Soils	Tahri Mohamed university, Bechar

ICGS080	Khedidja Bouhamla, Salhi Remili, Sihem Achouri, Soumaya Meddah, Mounira Bourabia	Use Properties Characterization of Two Crushing Hammer Alloys A Comparative Investigation	Research centre in Industrial Technologies, Alger
ICGS082	YSSAAD IKRAM, HAMIDI FATIHA	Synthesis and silver modification of mordenite zeolite: Application to the adsorption of congo red, a petrochemical derivative, for the treatment of industrial effluents	Mohamed Boudiaf University, Oran
ICGS089	Abdelmalek Abdelmalek, Abdelaziz Lairedj, Farouk Bouchakour, khadir mostefa	The effect of temperature on the vibration of a gas turbine is in the hot zones	Tahri Mohamed University, Bechar
ICGS091	Meddah Soumaya, Sihem Achouri a, Mounira Bourebia a, Amel Oulabbas a, Ahlem Taleb a, Walid Ghennai a, Abdeljalil Haddad a, Salah Remili a, Samia Cettouh a, Kamila Djemili a.	Corrosion Resistance of Quenched and Tempered Chromoly Steel	Research Center in Industrial Technologies
ICGS092	Rebie chahrazed, Benali omar , Sehmi Abdelghani	Influence of substitution of diethylamino group by nitro in isoxazol derivatives on corrosion inhibition of carbon steel in 1 M HCl	Dr MOULAY TAHAR University, SAIDA
ICGS095	DJELLOUL BENCHERIF Somia, ZERADNI AMINA, REZAK NACERA, BAHMANI ABDELLAH	Asphaltene adsorption to improve oil recovery with anionic clays	Mohamed Boudiaf University, Oran
ICGS099	MENNAD Mebrouk	Coordinated Energy Management System for Hybrid Wind-PV Fed Water Pumping System Driven by Induction Motor without Batteries	Djillali Liabes University, Sidi Bel Abbes
ICGS100	REHAIL AMAR, Salah KLADI	Towards Green Methanol: Assessing Feasibility and Advantages of CO ₂ Recovery from Steam Methane Reforming Emissions in Petrochemical Plants	Technical Direction, Petrochemicals Division PEC, RPC Activity, SONATRACH
ICGS103	khelifi halima,Ahmed Daas, Sami Zidelmel, Omar Allaoui	Effect of the Boriding Process on the Fatigue Behavior of X70 Steel.	Amar Telidji University, Laghouat
ICGS110	mostefai mohammed	Quantum effect study the adsorption of a pollutant on the octahedral surface of kaolinite clay	Tissemsilt University, Tissemsilt

ICGS111	Nabil. Hamam, Mohammed.Issam. Ferrahi, Mohammed, Belbachir, Rachid. Meghabar	SYNTHESIS OF POLY (STYRENE-CO-1,3,5-TRIOXANE) BY ECOLOGIC CATALYST MONTMORILLONITE MAGHNITE- Na+ CATALYS	Mohamed Boudiaf University, Oran
ICGS120	SATLA Zouaoui, BENDINE Kouider, KHERRAB Mohamed	Piezoelectric based passive vibration control of composite turbine blade using shunt circuit	Ahmed Ben Yahia Elwancharissi University, Tissemsilt
ICGS121	BOUDAA Habib , NATECHE Tahar, AYAD Ibrahim , HADJ MELIANI Mohammed	Optimisation numérique d'une turbine Wells pour une extraction améliorée de l'énergie des vagues	Mohamed Boudiaf University, Oran
ICGS124	Nedjar Yahia Mohamed Amine, Mostefaoui Mohamed, Benyoucef Djilali	Investigating Hydrogen Generation in Dielectric Barrier Discharge with Ar/NH3 Mixture using a 1D Fluid Model	Hassiba Benbouali University, Chlef
ICGS125	Mehada Zine Elabidine , Benaicha khaoula	Potentiel de la phytoremédiation dans l'industrie Oil & Gas	SARPI SPA
	Djamila BENARBIA, MOULGADA Abdelmadjid, ZAGANE Mohamed El Salah,MAKHFI Souad	Development of a new critical model for predicting the production's energy in photovoltaic solar panels,	Hassiba Benbouali University, Chlef.
ICGS126	Mohammed SADOU, Ahlam BELABED , Mohamed HADJMELIANI	Investigation of the Inhibitory Efficiency Datura Stramonium API 5L X52 Steel	Hassiba Benbouali University, Chlef
ICGS127	Karahacane Hanaa, Khadraoui Abdelkader, Hachama Kamel	Valorisation of non-toxic product as corrosion inhibitor for pipeline API 5L X70 steel	Hassiba Benbouali University, Chlef
ICGS129	BENDERRAG Abdelkader, Abdelkader BENDERRAG, Mortada DAAOU, Boumediene HADDOU.	Eco-Friendly Stabilization of Algerian Bitumen Emulsions: Influence of pH and Cationic Surfactants on Interface Properties	Mohamed Boudiaf University, Oran
ICGS133	Azeddine BELALIA , Ghizlene Rahma RENNOU, Chaabane ARROUSSI, Youcef Kamla, Mouna Amara, Abdelkader Chenoun, Mohamed HADJ MELIANI, Rami KHALID	Integrity Analysis of Corroded Steel Gas Pipes	Hassiba Benbouali University, Chlef

ICGS134	KHELLAFI Ikram, DJELLOUL BENCHERIF Ibtissem, BENDAOUD Nadia ,Boukhris Lahouari , Hemmami Zineb	Evaluation of the influence of a textured surface on the rheological properties of a non-Newtonian fluid in a hydrodynamic plain bearing	Mohamed Boudiaf University, Oran
ICGS136	Mohamed Aymen Kethiri, Sadam Houcine Sellam, Yousra Bouter, Charafeddine Beldjani	Hydrogen Potential in North Africa: Algeria Overview	Politecnico of Milan, Piazza Leonardo da Vinci
ICGS029	ARIF Yacine , TAOUTI Mohamed Benabdallah, HADJADJ Ahmed	,Sustainable Water Treatment in EOR Polymer Flooding: Aerobic Biological Systems for HPAM Degradation and Salinity Mitigation,	Amar Telidji University, Laghouat
ICGS173	ROUDANE Mohamed , AMOURA Manel , BENCHELFI Rania,	Design and implementation of a new hydrocarbon network at NAFTAL's fuel depot,	Saad Dahleb University, Blida
ICGS186	SIHAM BOUDJADJOUA	Avifauna of the Beni Haroun Dam (MILA): Ecological Sentinel in the Face of Water Treatment Challenges	Saad Dahleb University, Blida
ICGS189	Allaoui Abdelhalim, Guedri Abdelmoumene, Chakhrir Ammar	Reliability of Pipelines for Natural Gas/Hydrogen Mixed Transport: Role of Corrosion Inhibitors and In-Line Inspection in a Fracture Mechanics Approach	University Abbes Laghrour, Khenchela

Poster Sessions Second Day 15/05/2025

CHAIR : Bachir Merzoug (univ- Annaba), Abelkader Hocine (univ-Chlef), guedri Abdelmoumene (univ- Souk Ahras) , Metai Boualem (MDN- alger), Souad Mekhfi (Univ- Tiarte), Yassine djebbar (univ- Souk Ahras)

ICGS138	Ghizlene Rahma RENNOU , Azeddine BELALIA , Abdelilah BOURAGBA , Mohammed HADJ MELIANI , Rami KHALID SULEIMAN	Plant-Based Extracts as Eco-Friendly Corrosion Inhibitors	Hassiba Benbouali University, Chlef
ICGS139	Antar khadidja	FinTech and the Green Energy Transition: What Contribution?	Ecole Supérieure de Commerce
ICGS140	Hafsa HAMDAOUI, Moulay Abderrahmane MALOUKI, Habiba DRICI	Biofuel production from vegetables sources in Algeria: review article	Amenokal Hadj Moussa Ag Akhamouk University, Tamanrasset
ICGS141	Hafsa HAMDAOUI , Moulay Abderrahmane MALOUKI	Outoul Clay and Solar Light: An Environmentally Sustainable Approach for the Remediation of Organic Pollutants in Water	Amenokal Hadj Moussa Ag Akhamouk University, Tamanrasset
ICGS143	Mouna AMARA , Fatima zahra KHEDIM, Gania HANINI, Yekhelf LAIDANI , Mohammed HADJ MELIANI	The effect of pollutant particles on pipe erosion	Hassiba Benbouali University, Chlef
ICGS145	Mehada Zine Elabidine , Benaicha khaoula	Potentiel de la phytoremédiation dans l'industrie Oil & Gas	SARPI SPA, Rhourd Ennous, Ilizi

ICGS146	Moulay Abderrahmane MALOUKI, Abdelghani BENDIB	Investigation of Biological and Anticorrosion activity of the medicinal plant Calotropis procera from Ahaggar region	Amenokal Hadj Moussa Ag Akhamouk University, Tamanrasset
ICGS148	LAIDANI Ykhlef , HENINI GHania, AMARA Mouna, HADJ MILIANI Mohamed	Removal of Lead from Aqueous Solutions by Biosorption onto calcined Nut shells: Kinetics, Equilibrium and thermodynamic	Hassiba Benbouali University, Chlef
ICGS149	HENINI GHania , LAIDANI Ykhlef, AMARA Mouna, HADJ MILIANI Mohamed	Activated carbon prepared from softwood lignocellulosic biomass - opuntia ficus indica cords for treatment of effluents loaded with metallic pollutant Ni(II)	Hassiba Benbouali University, Chlef
ICGS151	Omar BERKANE, Fares Mohammed Laid REKBI, Hocine SIFAOU	Deep Eutectic Solvents for Sustainable Extraction of Nitrogen and Aromatic Compounds from Fuels: Experimental and NRTL Modeling Study	Abderrahmane Mira University , Bejaia
ICGS153	Lamsadfa Sidamar, Mamouri Said, Mohammed Hadj Meliani, BELAKHDAR Khalil	Blast-Resistant Composite Design: FEM & Genetic Algorithm Optimization of Glass/Carbon Laminates Under Contact Explosions	Amenokal Hadj Moussa Ag Akhamouk University, Tamanrasset
ICGS154	Messilem Kamel eddine ,BENCHATTI Ahmed, BENCHATTI Toufik	Optimisation et Modélisation de la Consommation Énergétique dans un Secteur du Bâtiment en Algérie : Enjeux et Perspectives	Amar Telidji University, Laghouat
ICGS155	Mouhoub khadidja, Hachemi Madjid	Développement d'une Méthode de Mesure de la Rétention Gazeuse dans les Écoulements Diphasiques par Capteurs de Conductance	M'Hamed BOUGARA University, Boumerdes
ICGS156	Chayma Hammana, Jaime F. PZRZNA-ORTIZ, Amel MEDDAD-HAMZA, Tarek HAMEL, Ángel Enrique SALVO-TIERRA, Harouna N'DIAYE DJENEBA.	Conservation and Sustainable Management of Wetlands in Northeastern Algeria: Political and Financial Considerations for Biodiversity Protection	Badji Mokhtar University, Annaba
ICGS157	Kaouter LABED, Guella Fadia Nouara, Boukelkoul Sofiane	Data Preparation and Key Parameter Identification for Natural Gas Liquefaction Optimization	Ecole Normale Supérieure d'Oran
ICGS158	Mohamed Rida BENGOURINA, Linda HASSAINE	Design and Optimization of an Algerian Hybrid Controller for PV-Gas Power Plants in Southern Algerian Cities	Centre de Développement des Energies Renouvelables CDER

ICGS159	Maher LAKKAICHI	Design of small-scale Fischer-Tropsch reactor to transform biomass into synthetic liquid fuels	Salah Boubnider University, Constantine
ICGS163	BOUDAA Habib , NATECHE Tahar, AYAD Ibrahim , HADJ MELIANI Mohammed	Numerical Study of Airflow Dynamics Around an Aerodynamic Profile Equipped with Rotating Cylinders	Mohamed Boudiaf University, Oran
ICGS164	Djelloul ben cherif ibtissem	The analysis of heat transfer of Newtonian and non-Newtonian fluids in laminar flow between two parallel plates.	Mohamed Boudiaf University, Oran
ICGS165	Hadj-Djelloul Nasreddine, Djermane Mohammed , Hammadi Fodil	Comportement dynamique non linéaire des réservoirs métalliques industriel sous excitation sismique	Tahri Mohamed University, Bechar
ICGS168	Mihoubi Bahaeddine , Baojiang Sun, and Litao Chen	Effect of Hyaluronic Acid as Environmental-Friendly Additives on Methane Hydrate Formation	China University of Petroleum
ICGS169	Youssef MEDDAHI , Houari AOUEB , Mohammed Amine ZAAFRANE	Fuzzy Computed Torque Control Technology of a Quadrotor	Hassiba Benbouali University, Chlef
ICGS170	BOUTERAA Sara	The Role of Renewable Energies in the City of Tomorrow	CESI MONTPELLIER
ICGS171	GUEBLI ZAKARIA, Rafik Benrabaa, Houria Djedjai, Laâldja Meddour-Boukhobza	Natural diatomite-supported multiphase TiO ₂ : A novel material for hydrogen storage and production	Mohamed Cherif Messaadia University , Souk Ahras
ICGS172	Nora Benmir, DOGHMANE Mohamed Zinelabidine, AKROUM HAMZA	Analyze lateral displacement of the bottom hole assembly (BHA) in the presence of axial load variation along the drill string	
ICGS177	MESSILEM Kamel Eddine , BENCHATTI Ahmed, BENCHATTI Toufik, REGUE Maria Hanane	State of the art on advanced methods of artificial intelligence to improve energy efficiency in Algeria	Amar Telidji University, Laghouat
ICGS178	Kaci Samira , Talbi Lamia , Benfadel Karima, Anas Boussaa Sabiha, Ouadah Yahia, Boukezzata Assia, Selles Smain, Mouffok Houari	Optimization of PbS/C/PVDF-based Electrodes for Efficient Electrochemical Reduction of CO ₂ to Formic Acid	Research Center on Semiconductors Technology for Energetic

	, Mansour Dalila		
ICGS179	Zenak Siham , Amina Chahtou	Lifecycle Assessment and Circular Economy Strategies for End-of-Life PV Panels and Green Hydrogen Systems in Algeria	Mohamed Boudiaf University, Oran
ICGS180	Zenak Siham , Amina Chahtou	Long-Term Degradation of PV Modules in Desert Climates: A Case Study from the Algerian Sahara	Mohamed Boudiaf University, Oran
ICGS181	Chachi Mohamed , Foukrach Mohammed , Ziane Berroudja Mohammed Elamine , Kamla Youcef , Hadj Meliani Mohammed	Étude numérique de l'effet de la géométrie et du régime d'écoulement sur les performances hydrodynamiques et la puissance consommée d'une turbine radiale dans un agitateur mécanique	Mohamed Boudiaf University, Oran
ICGS182	Moulgada Abdelmadjid, Zagane Mohammed El Sallah, Benarbia Djamilia, Makhfi Souad	Study and implementation of a cathodic protection system for pipelines powered by an energy source	Ibn Khaldoun University, Tiaret
ICGS183	ZAHAF Faiza , MAROUF Reda	Valorization of Biomass Waste for Activated Carbon Production Applied to Industrial Effluent Remediation	Mustapha Stambouli University, Mascara
ICGS185	GHEMRI HACENE SARRA , MEGHERBI RADJA , ADDOU HADJER , KAMECH MOSTAFA	Extraction of a Biopolymer, Preparation, Characterization and Application of Hybrid CH/ZrO ₂ and CH-PVA/ZrO ₂ Biofilms	Mohamed Boudiaf University, Oran
ICGS034	SABBAGH ZINEB,	Boundary Control and Uniform Stabilization of Viscoelastic Beam,	M'Hamed BOUGARA University, Boumerdes
ICGS037	BOUDIAF Mohamed	Strategies for Ensuring Sustainable and Ethical Biomass Sourcing in the Green Oil and Gas Industry	20 août 1955 University , Skikda
ICGS187	Zahia HOUIENE, Zoubida MARSIA, Nassima RAMDANE, Souhil MADI	Etude de l'inhibition à la corrosion de l'acier A283 Gr C par les feuilles de la Mentha Spicata L	Badji Mokhtar University, Annaba
ICGS188	Rym BOULANOUAR, Ali BENZEGAOU	Introducing Clinching to Support Environmental Goals in Oil and Gas Equipment Fabrication	Tahri Mohamed University, Bechar

Participants without presentation

1	Rafika Abderrahim	Sontrach
2	Choulia Latifa HALLOUI	University of Mostaganem
3	Elmahdi BAALI	University Ahmed Draieya, Adrar
4	Amel BENYETTOU	USTHB
5	Ilyas OMAROUYOUB	Groupement Sontrach-ENI
6	Khadra ZERFA	University Ahmed Ben Bella Oran
7	KHENFRI	Campus Biotech, Genève, Suisse
8	Mohamed DEKKICHE	University Hassiba Benbouali Chlef
9	Salsabil REZALI	Hassiba ben bouali university
10	Sara BOUTERAA	CESI
11	Seif Eddine BOULKSIBAT	University 20 aout 1955
12	Yassine BOUABDALLAH	University ORAN
13	Mohamed KHERRAB	Hassiba BenBouali University
14	Lakhdar SADOU	Chlef
15	Safa BOUMERZOUF	University Boumerdes
16	Anis KENDOOUSSI	University Oran
17	Lakhal Fouad	Sonalgaz
18	Lounes Lounici	Sonalgaz
19	Faafaa Ikram Faiza	SOMIZ SPA