



*The 1st International Seminar on Innovation
in Electrochemistry, Materials and Green
Chemistry (ISIEMGC-2025)
November 23-24th, 2025, Skikda, Algeria*



SUNDAY NOVEMBER 23TH, 2025

08h30'- 09h00'(GMT+1):

Registration

09h00'- 09h30'(GMT+1):

Opening of the Meeting

Plenary Conference -1-

Moderators: Dr. BENACHOUR; Dr. MELAIS

10h00'-10h20' (GMT+1)

“Elelectrochemical Impédance and corrosion applications”

Prof. YASSER Ben Amor

Univ. Monastir, Tunisia

Debate

10h30'-11h00' (GMT+1)

Coffee Break ☕

Poster Session -1-

Moderators: Dr.DELIMI;Dr.C.RAMDANE

TOPIC 1 :

Innovation in electrochemistry (Batteries, Cells, Hydrogen production, etc.)

CA .01: Innovative Nanostructured Textile Electrodes for the Electrochemical Degradation of Atrazine

HAMOUS Hanene et al. Univ. Oran

CA .02: Study of the degradation of the corrosion inhibitor zinc dichloride on carbon steel used in cooling tower pipes

SAADI Chahrazed et al. Univ. Skikda

CA .03: Exploring the Multifunctional Properties of 2D MXene Monolayer for Next-Generation Nanotechnologies

YAHY Hakima et al. Univ. Guelma

CA .04: Effect of pH and Fluoride Concentration on the Corrosion Resistance of Electrochemical and Thermally Treated Titanium in Fusayama Meyer Solution

KAKAA Faiza et al. Univ. Jijel

CA .05: Évaluation électrochimique de l'activité antioxydante des extraits naturels : méthodes et applications

GUIASSA Charif et al. Univ. Skikda

CA .06: Photoelectrochemical Hydrogen Evolution over CoMn_2O_4 Spinel Nanoparticles

KIHAL Imen et al. Univ. Jijel

CA .07: Impact of Ag Addition on the Superconducting and Electrochemical Properties of $\text{Bi}_2\text{Te}_{2.12}$ for Energy Storage Applications

MENASSEL Sihem et al. Univ. Msila

TOPIC 2

Eco-friendly materials

CA .01: Le Vermicompost : Un Matériau Durable pour L'agriculture et L'environnement.

LAIB Djamel Eddine et al. Univ. Skikda

CA .02: Used of Environmentally Friendly local Clay Material for the Decontamination of an Aquatic Environment

KHENNAOUI Badis et al. Univ. Mila

CA .03: Development of Eco-Friendly Treatment Methods Using Green-Synthesized Nanoparticles For Water Remediation

ZITOUNI Imene et al. Univ. Annaba

CA .04: Green Electrochemical Approaches for the Removal of Ibuprofen Residues from Wastewater

HAMOUS Hanene et al. Univ. Oran.

CA .05: Synthesis, Characterization, and Response Surface Modeling of a Novel Bio-Adsorbent for Cadmium Ion Removal

MAKHLOUF Mohammed Rabeh et al. Univ. Guelma

CA .06: Optimized Cd Substituted $\text{Ni}_2\text{-Xcdxco}_2\text{znfe}_{2-8}$ Nanoparticles for High Efficiency Catalyst

LAKHAL El-Hadi et al. Univ. Jijel

CA .07: Comparative Study of Sunlight and UV Light-Induced Photocatalytic Degradation of Ketoprofen by ZnFe_2O_4

AZIZI Yasser et al. Univ. Jijel

CA .08: Synthesis of new Metal Free-organic Optoelectronic Semiconductor based on N-donor clusters used As Photocatalyst for the degradation of organic pollutants in water

ADALA Amina et al. Univ. Constantine

CA .09: Utilizing An Eco-Friendly Nanomaterials for Sustainable Water Purification.

RAHAL Hassiba et al. Univ. Skikda

CA .10: Response surface methodology based on the Box-Behnken design for optimizing methylene bleu adsorption using Juglans Regia shells as eco-friendly adsorbent.

MAMINE Hadjer et al. E.N.S.E.T. Skikda

CA .11: Synthesis of Alkaline Earth Metal Compounds with a Dicarboxylate Imidazolium Ligand

BENDJELLAL Nassima et al. Univ. Constantine

CA .12: Integrating Statistical Physics And Dft Analyses To Study The Adsorption Mechanism Of Acetaminophen On Titanium-Coated Biochar

GUILHERME Dotto et al. Univ. Brazil

CA .13: 2-Phenoxypropionic Amides: Synthesis, Characterization and DFT Calculations.

MERABET-KHELASSI Mounia et al. Univ. Annaba

CA .14: Dual-Functional Mg-Doped ZnO Nanoparticles: A Potent Photocatalyst for Basic Fuchsin Degradation.

BOUKERCHE Said et al. Univ. Souk Ahras

CA .15: Synthesis and Characterization of New Azole-Based Metal Complexes

FAR Hadjer et al. Univ. Jijel

TOPIC 3

Green corrosion inhibitors

CA .01: Bio-Sourced Polyphenols from Santolina Africana: Innovative Materials for Electrochemical Corrosion Inhibition

SRIEF Manel et al. Univ. Constantine

CA .02: Green Synergistic Inhibition of Carbon Steel Corrosion In Acidic Media By Cistus Creticus Extract And Potassium Iodide

BELAKHDAR Amina et al. Univ. Bordj bou arreridj

CA .03: Neuroprotective, Calming, and Sedative Effects of Urtica dioica and Matricaria chamomilla in a Reserpine-Induced Rat Model of Depression

ATTAFI Assia et al. Univ. Alger

CA .04: Upcycling fish waste into a green corrosion inhibitor for mild steel in an Acidic Medium

ACILA Meryem et al. Univ. Jijel

CA .05: Efficiency of a schiff base inhibition for XC52 steel in acidic medium

BEHLOUL Hamza et al. Univ. Bordj Bou Arréridj

CA .06: L'étude de L'activité Antibactérienne des Nanoparticules d'argent Synthétisées par Green Synthesis à L'aide de L'extrait Hydroalcoolique de Camellia Sinensis L.

DOB Hana et al. Univ. Skikda

CA .07: Study of the Effect of a plant extract as a Brightener for nickel deposits

BELBAH Hayet et al. Univ. Guelma

TOPIC 4

Artificial intelligence and mathematics applied to materials

CA .01: Low-temperature formation and structural characterization of forsterite ceramics

AMIOUR Imene et al. Univ. Jijel

CA .02: Leveraging Predictive Analytics in Educational Platforms: A Case Study with the ZTAP Application

ZITOUNI Tidjani Ahmed et al. Univ. Constantine

CA .03: A Coupled CFD-PCM Melting Model for Optimizing Thermal Energy Storage
CHIDOUAH Wafa et al. Univ. Skikda

CA .04: Unveiling Spirulina Derived, a Green Alga, as a High-Performance Eco-Friendly Corrosion Inhibitor for Carbon Steel: Integrated Experimental and Computational Studies
GHOUAFRIA Imane et al. Univ. Skikda

CA .05: Theoretical Study of Mhd Non-Newtonian Third Grad Nanofluid
AZRI Karima et al. Univ. Skikda

CA .06: (R)-Phenyl Ethyl Esters Versus Amide Analogues: Quantum Chemical Calculations
RAZI Samra et al. Univ. Annaba

Plenary Conference -2-
Moderators: Dr. HAMMOUDA; Prof. HALLADJA

11h00'-11h20' (GMT+1)

“Energy, Global warming and Environment”

Prof. Larbi ZEROUAL

Univ. Setif, Algeria

Debate

Oral Session -1-Presential-
Moderators: ... Pr . AZZAZA; Dr. FERKOUS.....

TOPIC 1 :
Innovation in electrochemistry (Batteries, Cells, Hydrogen production, etc.)

11h30'-11h40' **CO .01:** Toward an advanced method for evaluating cathodic protection: the contribution of Electrochemical Impedance Spectroscopy
ABDENBI abdelali et al. Univ. Oran

11h40'- 11h50' **CO .02:** The Effect of Selenium Concentration Upon Physical Properties and Performances of ZnSexTe1-x Ternary Alloy
MALKI Radia et al. Univ. Oran .

TOPIC 2
Eco-friendly materials

11h30'-11h40' **CO .01:** Fabrication and Characterization of Low-Cost Tubular Ceramic Membranes From Local Clays for Water Treatment Applications.
LAGHRIB Roquiya et al. E.N.S.E.T. Skikda.

11h40'- 11h50' CO .02: The Effect of Selenium Concentration Upon Physical Properties and Performances of Zn₅₀Se₅₀-X Ternary Alloy.

BOUSSOUF Nora et al. Univ. Mila

11h50'-12h00' CO .03: Influence of Multilayering and Co-Doping on The Optoelectronic Behavior of ZnO Thin Films for Enhanced Photovoltaic Performance.

SETTARA Khaoula et al. Univ. Skikda

12h00'-12h10' CO .04: Vers une endocrinologie éco-responsable : réduire l'impact des perturbateurs endocriniens par la chimie verte.

SAKOUHI Mounia et al. CHU de Sidi-Bel-Abbés

12h10'- 12h20' CO .05: Modélisation de L'encapsulation De Zometa Dans La B-Cyclodextrine : Vers Une Amélioration de La Biodisponibilité Orale par Conception de Matériaux Hôtes Biocompatibles.**BOUNEB Bouneb** et al. Univ. Guelma

12h20'- 12h40' CO .06: The Role of Inorganic Oxidising Agents (Persulfate) in the Treatment of Wastewater Containing an Azo Dye.**BOUGOUZI Bouneb** et al. Univ. SKIKDA

TOPIC 3

Green corrosion inhibitors

11h30'-11h40' "CO .01: Plant-Based Green Corrosion Inhibitors and Biocides: Sustainable Solutions for Carbon Steel Protection in Oil and Gas Industry

DIDOUH Hadjer et al. Univ. Oran

11h40'- 11h50' CO .02: Experimental study of the effectiveness of a corrosion inhibitor based on an expired drug on steel in an acidic medium: Case of a pipeline (C18) produced by the El-Hadjar – Annaba steel complex

NEDJAH Nawel et al. Univ. Alger

11h50'-12h00' CO .03: The Inhibitive Effect of Black Olive Kernel Extract on the Corrosion Behavior of Tinplate In Simulated Olive Brine Solution

BENSABRA Hakim et al. Univ. Jijel

12h20'- 12h50'

Debate

13h00'-14h00' (GMT+1)

Lunch Break ☐

Plenary Conference -3-

Moderators: Pr. KABIR Dr. MAHMOUDI

14h00'-14h20' (GMT+1)

“How to enhance the adsorbent features for wastewater treatment?”

Prof. GUILHERME Luiz

Univ. FEDERAL- Brazil

Debate

14h30'-15h30' (GMT+1)

Coffee Break☕

Poster Session -2-

Moderators: Pr.BENHAMIDECHE; Dr .BOUAOUD.....

TOPIC 1 :

Innovation in electrochemistry (Batteries, Cells, Hydrogen production, etc.)

CA .08: Influence of annealing on the Photo-Catalytic,optical, and structural Behavior proprieties of copper oxide thin films prepared by dip coating.

KETITA Nour elhouda et al. Univ. Skikda

CA .09: Energy and Comfort Enhancement in Cold Regions through PCM-Integrated Building Envelopes

GOUDJIL Housseem et al. Univ. Skikda

CA .10: Etude des propriétés structurales des couches minces nanostructurées FeSe 2 déposées sur un substrat du verre

BOUGHAREB Hind et al. Univ. Skikda

CA .11: Study of the microstructural and electrochemical properties of a Al-Ni alloys

BEDBOUDI Hayette et al. E.N.S.E.T. Skikda

CA .12: La₂NiO_{4±δ} Comme Matériau de Detection de PARACETAMOL

ZINE Amal et al. Univ. Jijel

CA .13: Investigation of Impedance and Dielectric Relaxation Mechanisms in CuO Thin Films Synthesized via Spray Pyrolysis

KETITA Nour El Houda et al. Univ. Skikda

CA .14: Developing an Automated Educational System with AI for the Analysis of Healthcare-Associated Infections and the Optimization of Antibiotic Therapy

BELMIMOUN Asmaa et al. Univ. Mascara

TOPIC 2

Eco-friendly materials

CA .16: Co-Dolyc: Drug as Efficient Corrosion Inhibitor for Carbon Steel In Acidic Media

REMACHE Malika et al. Univ. Skikda

CA .17: Développement de Catalyseur Hétérogène Écologiques Destinés à des Applications dans le Secteur Pharmaceutique.

BOURDJIBA Malika et al. Univ. Jijel

CA .18: Functionalized 2-Isoxazolines:a Computational Study of Their Formation Via 1,3-Dipolar Cycloaddition Reaction of Nitrile Oxides With Various Alkenes

YAHIA Wassila et al. Univ. Skikda

CA .19: Eco-Friendly Synthesis of Bioactive Compounds Via Non- Conventional Heating.

ACHOURI Rahma et al. Univ. Skikda

CA .20: First-Principles Investigation of Eco-Friendly ZnO Nanomaterials: Electronic, Optical, and Structural Properties.

SEDRATI Fatima Zohra et al. Univ. Bourdj Bou Arreridj

CA .21: [Emin][TFO]-Assisted Optimization of Pt/Al₂O₃ Catalysts for Selective Ethanol Dehydrogenation

BENABDELKRIM Mohamed Hamza et al. Univ. Skikda

CA .22: First-Principles Assessment of The Structural, Electronic, and Elastic Properties of The Ternary Hydride Cs₃cdh₅

DJELLAB Sihem et al. Univ. Skikda

CA .23: Évaluation du Potentiel Bioremédiateur d'une Souche De Bacillus Résistante aux Métaux Issue d'un Sol Minier Contaminé

FERAGUENA Imane et al. Univ. Skikda

CA .24: Effect of Barium Substitution On The Structural and Optical Properties of BIFEO₃ Prepared by The Solid -State Reaction Method

BAZINE Romaissa et al. Univ. Skikda

CA .25: Élimination de L'amoxicilline des Milieux Aquatiques par Nanofiltration

DJOUZA Houda et al. Univ. Batna

CA .26: Optimisation de L'élimination des Polluants Organiques Récalcitrants des Eaux Usées Industrielles par des Procédés Économiques de Coagulation-Floculation.

AOURAGH Abdellatif et al. Univ. Batna

CA .27: Nanocrystalline Fe₅₀Co₄₅Al₅ Alloy Prepared by Mechanical Alloying

MEDJEKAL Amira et al. Univ. Mila

CA .28: Aromatic Esters: Sustainable Biosynthesis, DFT Calculations and in Silico Evaluation of The Antibacterial Activity.

BOUGHELOUM Khadidja et al. Univ. Annaba

CA .29: Effect of spin_orbit coupling (SOC) on the structural and electronic properties of TiCoBi Half-Heusler compound: Stability and application as green Energy resource.

LAZGHED Sara et al. Univ. Skikda

CA .30: Valorization of Date Seeds In The Field of Industrial Effluent Purification

BELMIMOUN Asmaa et al. Univ. Mascara

TOPIC 3

Green corrosion inhibitors

CA .08: Green Corrosion Inhibition Using Alfalfa and Moringa Plant Extracts In Acidic Media: Phytochemical Insights and Protective Mechanisms

HADJEB Rihana et al. Univ. Biskra

CA .09: Inhibiting Effects of Synthesized Organic compound on the corrosion of cuivre in 0.5M HNO₃ solution

GAOUI Halima et al. Univ. Laghouat

CA .10: Antioxidant Properties of Bioactive Compounds from The Acetate Extract Of Marrubium Desertu

LAHNECHE Amina Maya et al. Univ. Constantine

CA .11: Potassium Iodide-Assisted Green Inhibition of Mild Steel Corrosion In 1 M HCl: An Electrochemical Study

BOUGHOUES Yasmine et al. Univ. Jijel

CA .12: Theoretical Investigation of the Corrosion Inhibition Mechanisms by Inula Viscosa Essential Oil

HIMEUR Touhida et al. Univ. Jijel

CA .13: Nigella Sativa L. Extract as an Eco-Friendly Corrosion Inhibitor for Carbon Steel In Acidic Environment

HAMMOUDA Nadia et al. Univ. Skikda

CA .14: Chemo-Biological Exploration of an Algerian Medicinal Plant (Rosaceae), Using Two Extraction Methods.

BENABDERRAHMANE Wassila et al. Univ. Skikda

TOPIC 4

Artificial intelligence and mathematics applied to materials

CA .07: MLR and RNA models for the prediction of retention index of phenols in temperature-programmed gas chromatography

AMIRI Rana et al. Univ. Skikda

CA .08: Effect of spin-orbit coupling (SOC) on the structural and electronic properties of TiCoBi Half-Heusler compound: Stability and application as green energy resource
LAZGHED Sara et al. Univ. Skikda

CA .09: Exploring the Nonlinear Optical Properties of Benzoxazines: DFT Studies.
CHABANE Hanane et al. Univ. Skikda

CA .10: Ab-initio investigation of the Electronic and Magnetic Properties of Ni₂-xPt_xMnGa Cubic Alloys.
BOULARAF Aicha et al. Univ. Sidi Bel Abbes.

CA.11 : Chirp-Controlled Optical Solitons in Nonlinear Fibers: Mathematical Modeling and AI-Assisted Optimization. **Faissal MANSOURI et al.** Univ. Souk-Ahras.

End of Day -1-

MONDAY NOVEMBER 24TH, 2025

08h30'- 09h00'(GMT+1):

Registration

Plenary Conference -4-

Moderators: Dr. BENACHOUR ,Dr YAHYA....

10h00'-10h20' (GMT+1)

“Controlled Release by Means of Polymeric Matrices”

Prof. ORAL Ayhan

Çanakkale Onsekiz Mart University ,Turkey

Debate

10h30'-11h00' (GMT+1)

Coffee Break ☕

Poster Session -3-

Moderators: Dr. BRIOUA ; Dr. AYADI

TOPIC 1:

Innovation in electrochemistry (Batteries, Cells, Hydrogen production, etc.)

CA .15: Copper Oxide-Based Electrochemical Sensor for Glucose Detection

BOUCHETA Hana et al. Univ. Skikda

CA .16: Kinetic Effect of Triethanolamine on The Electrodeposition of TiN And TiN- Copper Alloys From Acidic Solution

KESRI Fatima et al. Univ. Annaba

CA .17: Investigation of the Viability of Deep Eutectic Solvents Based on Choline Chloride and Urea for Silver (I) Electrodeposition

GUELLOUT Aya et al. Univ. Setif

CA .18: Etude des propriétés structurales des couches minces nanostructures FeSe $2-x$ Tex déposées sur un substrat du verre

BOUGHAREB Hind et al. Univ. Skikda

CA .19: Extraction et Carracterisation des Quelques Composes par Hydrodistillation

NECIB Anissa et al. Univ. El Tarf

CA .20: Preparation and Characterization of Co-Doped ZnO Thin Films Using Ultrasonic Spray Pyrolysis

SAMMAR Souria et al. Univ. Annaba

TOPIC 2

Eco-friendly materials

CA .31: Green Extraction and Electrodeposition of Valuable Metals from E-Waste Using Deep Eutectic Solvents

LAKIKZA Imane et al. Univ. Souk-Ahras

CA .32: Eco-Friendly Solvent Systems for Metal Leaching and Electrodeposition From Waste Pcb's

AOUNI Saoussen Imene et al. Univ. Souk-Ahras

CA .33: Influence of Water Quality Oon The Electrochemical Behavior of a Carbon Steel Used In The Combustion Chamber of Boilers In a Petroleum Complex

HAMMOUDA Nadia et al. Univ. Skikda

CA .34: Study of Cadmium Removal From Water by An Endemic Brown Alga

BENGOURNA Nadjette et al. Univ. Guelma

CA .35: Comparative Study of Eco-friendly Supported Catalysts for Hydrodesulfurization of Petroleum Fractions

BOUGARECHE Abderrahime et al. Univ. Skikda

CA .36: Characterization and XRD structural study of Colored Materials

BOUKHEMIS Ouafa et al. Univ. Constantine

CA .37: In-Situ Formation of a $\text{La}_4\text{Ni}_3\text{O}_{10}/\text{La}_2\text{NiO}_4/\text{NiO}$ Type-II Heterojunction for Enhanced

Visible-Light Photocatalytic Degradation of Congo Red
BOUBEZARI Imane et al. Univ. Jijel

CA .38: Biological Activities of Aromatic & Medicinal Plants, Systematic Review & Meta-analysis.
NAIMI Mostefa et al. Univ. EL-Bayadh

CA .39: Biovinegar from Dates: Experimental and Techno-Economic Study
BOURAGHDA Yehya et al. Univ. Guelma

CA .40: Enhancing Radish Seed Germination And Growth Using Low-Voltage Electroculture: A Sustainable Agricultural Approach
BOURAGHDA Yehya et al. Univ. Guelma

CA .41: Iron Oxide Nanoparticles Synthesized Using Grape Seed Extract as a Green Reducing And Stabilizing Agent
BOUTEMEDJET Abderrahim et al. Univ. Souk Ahras

CA .42: Effect of Grape Seed Type On The Catalytic Activity of Synthesized Iron Or Iron Oxide Nanoparticles
BOUTEMEDJET Abderrahim et al. Univ. Souk Ahras

CA .43: Influence of Phase Change Material Type on Melting Behavior in an Annular Cylindrical System
BOUREGHIDA Ahlem et al. Univ. Skikda

CA .44: Impact of Heat Transfer Fluid Inlet Temperature on PCM Melting in a 3D Annular Cylinder
BOUREGHIDA Ahlem et al. Univ. Skikda

CA .45: Reynolds Number Effect on Heat Transfer and Pressure Drop of a (Cu–Al₂O₃–TiO₂/water) Ternary Hybrid Nanofluid ($\phi = 3\%$),
HAMROUCHE Rima et al. Univ. Skikda

CA .46: Numerical Analysis of Thermal Performance Enhancement in Cu–Al₂O₃ Hybrid Nanofluids Using Water and Ethylene Glycol Base Fluids
HAMROUCHE Rima et al. Univ. Skikda

CA .47: Impact of Sediment Granulometry on the Concentration and Spatial Distribution of Heavy Metals Such as iron (Fe), lead (Pb), and copper (Cu)
BEKAKRIA Hamida et al. Univ. El Tarf

CA.48 : Amphiphiles à base de Produits Naturels. **ALLAL Fatima Zohra et al.** Univ Oran1,

TOPIC 3
Green corrosion inhibitors

CA .15: Inhibition of Steel Corrosion in 0.5 M H₂SO₄ medium by the use of Phosphonium salts
KERKATOU Redouane et al. Univ. Constantine

CA .16: The antibacterial effect of Agarwood (*Aquilaria Malaccensis*) on gynecological diseases in the city of Sidi Bel Abbès
MELIANI Habib et al. Univ. Sidi Bel Abbès

CA .17: Molecular and Electrochemical Study of Natural Corrosion Inhibitor
CHEKKAL Faiza et al. Univ. Skikda

CA .18: Study on The Corrosion Inhibition Performance of Beet Extract for Tinplate In Simulated Black Olive Brine Solution
SERHANE Amel et al. Univ. Jijel

CA .19: Elaboration and Advanced Characterization of TiO₂/Cr-Doped ZnO Nanostructured Multilayer Coatings Prepared via Sol–Gel Dip-Coating Method
GABSI Meriem et al. Univ. Khanchela

CA .20: Reproductive Effects of Aqueous *Eucalyptus* Extract In Male Wistar Rats
HAMZA Dikra et al. Univ. Annaba

CA .21: Valorisation d'Ulva lactuca en matériau bioactif éco-compatible : vers de nouveaux agents de Chimie Verte pour la sécurité alimentaire.
AOUZAL Badis et al. Univ. Skikda

Oral Session -2 -

Moderators:Dr.HAMMOUDA,Dr BOUHALI

TOPIC 1 :

Innovation in electrochemistry (Batteries, Cells, Hydrogen production, etc.)

11h30'-11h40' CO .03: Thermal Performance of PCM-Integrated Walls in Hot Climatic Conditions
GOUDJIL Housseem et al. Univ. Skikda

11h40'- 11h50' CO .04: Electronic and Band Gap Engineering of Mg-Germanate Oxides for Environmental Photocatalysis
CHARIF Rania et al. Univ. Biskra

TOPIC 2

Eco-friendly materials

11h30'-11h40' CO .06: The Effect of T4 Heat Treatment on the Corrosion Behavior of AZ91D Magnesium Alloy for Biodegradable Implant Applications.

BOUKERCHE Said et al. Univ. Souk Ahras

11h40'- 11h50' CO .07: Influence Of Sodium Fluoride Doping On The Microstructure And Superconducting Behavior Of $\text{Yba}_2\text{cu}_3\text{o}_7-\Delta$ Ceramics.

SADOUNE faycal et al. Univ. Skikda

11h50'-12h00' CO .08: Green superhydrophobic coatings for anticorrosion applications.

SOBHI Nour ELHouda et al. Univ. Souk Ahras.

12h00'-12h10' CO .09: The effect of temperature and pH control timing on structural and morphological properties of green synthesised ZnO.

HAZMOUNE Aicha et al. Univ. Constantine.

12h10'-12h30'-Investigation of the influence of various parameters on the temperature field of the barothermal effect in a gas-condensate formation. Boudjoghra. **Sabrina et al** Ufa, Zaki Validi Str., 32, Russia.

12h30'-12h40'-Production et caractérisation d'une protéase acide de *Clavispora lusitaniae* issue de déchets agroalimentaires : application potentielle à la dégradation du gluten. **DAKHMOUCHE DJEKIRIF Scheherazed.et al** . Univ. Constantine1.

TOPIC 3

Green corrosion inhibitors

11h30'-11h40' CO .04: L'évaluation in vitro de l'activité antioxydante et anti-inflammatoire, des composés bioactifs de l'extrait hydro-éthanolique de *Dittrichia viscosa*

MEZI Ilhem et al. E.N.S.E.T. Skikda

11h40'- 11h50' CO .05: Évaluation du potentiel anticorrosion de quelques espèces végétales de Laghouat

FERHAT Mahmoud et al. Univ. Laghouat

12h20'- 12h50'

Debate

13h00'-14h00' (GMT+1)

Lunch Break ☐

Poster Session -4-

Moderators:Dr.OUILIA ; Dr.HOUIENE

TOPIC 1 :

Innovation in electrochemistry (Batteries, Cells, Hydrogen production, etc.)

CA .21: Green Hydrogen Production via Electrolysis in a Double-Compartment Cell Separated by a Chitosan Biopolymer Membrane from Crustacean Waste

HAMITOUCHE Houria et al. Univ. Blida

CA .22: Comparative Study Of Metal Oxide Nanocomposites For Non-Enzymatic Glucose Detection: Superior Performance of $\text{Fe}_2\text{O}_3/\text{CuFe}_2\text{O}_4$

BOUROUBA Lilia et al. Univ. Skikda

CA .23: TiO_2 nanofibers supported on Ti sheets prepared by hydrothermal corrosion: effect of the microstructure on their photochemical and photoelectrochemical properties

CHAGUETMI Samiha et al. Univ. Skikda

CA .24: Influence of Hubbard's parameter on the characteristics of $\text{Ba}_2\text{B'TaO}_6$, a potential ferromagnetic double perovskite for thermoelectric uses.

GUESMIA Aissa et al. Univ. Moustaganme

CA .25: Division photoélectrochimique de l'eau : vers une production durable d'hydrogène à l'aide de photocatalyseurs à base de semi-conducteurs.

RAHIM Fatima Zohra et al. Univ. Blida.

TOPIC 2

Eco-friendly materials

CA .48: Structural, Electronic and Thermodynamic Properties of Zirconium and Hafnium Based Half-Heusler Compounds for Green Energy Applications: A DFT Exploration

ANNANE Farida et al. Univ. Skikda

CA .49: Développement de films biodégradables à base d'amidon renforcés à l'argile pour un emballage alimentaire durable.

BATTAZ Sarah et al. Univ. Skikda

CA .50: Green and Eco-Friendly Synthesis of Zinc Oxide Nanoparticles.

BENZEROUK Hayet et al. Univ. Skikda

CA .51: Microstructural and Functional Development of HAp/MgO Composites coatings for Biomedical Use.

CHOUIT Fairouz et al. Univ. Skikda

CA .52: X-Ray Fluorescence (XRF) Analysis of Marble for the Development of a Composite Material.

BELKADI Sabrina et al. Univ. Msila.

CA .53: Improvement of the mechanical and optical properties of sandblasted glass coated with silica-zirconia by sol-gel.

CHEBBAH Bouzid et al. Univ. Bordj Bou Arreridj.

CA .54: Microstructural study of medical material prepared by sintering.

BOULKHESSAIM Salim et al. Univ. Skikda

CA .55: Microhardness properties of ternary Al-Ti-C alloys system.

BOULKHESSAIM Salim et al. Univ. Skikda

CA .56: Production of lytic enzymes by actinobacteria from the *Saccharothrix* and *Streptosporangium* genera: a meta-analysis.

BOUKAYA Nassira et al. Univ. El-Bayadh.

CA .57: Assessment of roxithromycin antibiotic levels in pharmaceuticals using electrochemical sensors.

MAHMOUDI Abdelghani et al. Univ. Skikda.

CA .58: Study and characterization of the Bi 0,8 Ba 0,2 FeO 3 ceramic phase using X-ray diffraction, thermogravimetry and Raman spectroscopy

BOUAOUD Yasmina et al. Univ. Skikda.

CA .59: Synthesis of aminophenol derivative and its antioxidant properties

BOUDRAA Naouel et al. Univ. Constantine.

CA .28: Physicochemical and microbiological study of "Dioveine 300mg" tablets

BENACHOUR Naima et al. Univ. Skikda

CA .59: Application des nanocomposites écologiques dans l'adsorption des polluants

BOHALI HASNA et al. Univ. Skikda

CA .28: Eco-Friendly Corrosion Inhibitors: Exploring Plant Extracts and Expired Pharmaceutical Drugs as Sustainable Alternatives for Steel Protection

NAILI Nora et al. Univ. Skikda

TOPIC 3

Green corrosion inhibitors

CA .22: Electrochemical Assessment of Sunflower Oil as an Eco-Friendly Inhibitor for X60 Carbon Steel in 0.5 M H₂SO₄ Solution.

KHADRAOUI Mourad et al. Univ. Constantine.

CA .23: Eco-Friendly Inhibitors for Corrosion Protection: Sustainable Solutions for Industrial Applications.

BENAISSA Amina et al. Univ. Skikda

CA .24: Corrosion Challenges and Sustainable Mitigation Strategies in the Petrochemical Industry.

KHELKHAL Nayla et al. Univ. Skikda

CA .25: In-Vitro Antibacterial activity of Aerial parts extracts of Blackstonia grandiflora.

BELFADEL Fatima Zohra et al. Univ. Skikda

CA .26: Use of watermelon rind extract as a green corrosion inhibitor for the pipeline steel (XC48)

TEBBAKH Salim et al. Univ. Setif.

CA .27: Le rôle des éléments d'addition dans la corrosion de l'aluminium.

ALLOUCHE Leila Lamia et al. Univ. Skikda.

CA.28: The Role of Inorganic Oxidising Agents (Persulfate) in the Treatment of Wastewater Containing an Azo Dye. BOUGOUIZI Nesrine al. Univ. Skikda.

CA .24: N-phenyl piperazine sulfamide (NPPS) as Eco-Friendly High-Performance Corrosion Inhibitors: An Integrated Experimental–Theoretical Study

DELIMI Amel et al. Univ. Skikda

CA .25: Integrated Experimental and Theoretical Study of N-phenyl sulfamide(NPS) as an Eco-Friendly Corrosion Inhibitor for Copper in HCl

DELIMI Amel et al. Univ. Skikda

CA .26: Multifunctional α -Hydroxyphosphonates for Copper Protection: A Combined Electrochemical, Surface, and Quantum Chemical Study

FERKOUS Hana et al. Univ. Skikda

CA .27: Diethyl α -Hydroxy 4-Methoxyphenyl Phosphonate (DHMP) as Eco-Friendly High-Performance Corrosion Inhibitors: An Integrated Experimental–Theoretical Study **FERKOUS**

Hana et al. Univ. Skikda

14h30'-15h30' (GMT+1)

Closing Ceremony

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