

PROGRAMME

Mercredi, 26 Juin 2024

13:30 - 14:00

Accueil et enregistrement des participants

14:00-14:30

Mot de bienvenue

Président du Pôle, Président de l'université, Mme Ingrid MILCENT (Tenerdis), M. Rachid THALJAOUI Chairman, M. Ammar HIDOURI Co-Chairman

14:30-15:15

Titre : Horizon Europe : Un financement massif dans la transition énergétique propre

Prof. Helmi Mardassi

Session 1 (Energies)
PRESIDENT: Pr. Lakdar Kairouani

Session 2 (Transition Energétique & Matériaux Innovants)
PRESIDENT: Pr. ALI MANSOURI

15:15 - 15h30

Orale 1: Kods Oueslati, Turning Climate Obstacles into Pollution Control Innovations

15:15 - 15h30

Orale 1 : Abir Sagaama, Weak interactions analysis and clinical activities investigation of N'-(4-Methoxybenzylidene)-5-phenyl-1H-pyrazole-3-carbohydrazide: DFT calculation and molecular docking

15:30 - 15:45

Orale 2 : Askri maher, Water Adsorption on silica gel for Desalination Applications: Statistical physics treatment

15:30 - 15:45

Orale 2: Bouthaina Shili, Effect of x doped tio2 nanoparticle's on structural and optical properties: experimental + dft study.

15 :45 - 16:00

Orale 3 : Sahar Grine, Experimental investigation of the effect of phase-change materials on productivity of single-slope solar still

15 :45 - 16:00

Orale 3 : Imen Boubaker, Adsorption of BSA onto COL - BC: Modeling and consequent interpretations based on statistical physics treatment

16:00 - 16:15

Orale 4 : A Abdulrrazaq Ali Haba, Developing a 3d geological model using petrel software for k oil field reservoir in murzuq basin, Libya.

16:00 - 16:15

Orale 4 : Rihab Ghorbali, Adsorption of acetaminophen and diclofenac on activated carbon: modelling and mechanism

16:15-16:45

Pause-café

Session 1 (Energie)
PRESIDENT: Hidouri Ammar

Session 2 (Matériaux)
PRESIDENT: Thaljaoui Rachid

16:45 - 17:00

Orale 5 : Mnassri Baraa, Numerical study of magnetohydrodynamic natural convection phenomena of newtonian nanoliquid and non-newtonian nanoliquid

16:45 - 17:00

Orale 5 : Ali Mansouri, Vector control of faulty pmsm dedicated to electric vehicles

17:00 - 17:15

Orale 6 : Fattoum Raoua, Enhancing solar air heater efficiency: comparative analysis of porous wire mesh and grater-shaped channels under double parallel flow conditions

17:00 - 17:15

Orale 6 : Ali Mohamed Ali Aboshia, The Effect of Ternary Geopolymer Binder of Metakaolin, Slag, and Fly Ash on the Geopolymer Concrete Durability

17:15 - 17:30

Orale 7 : الصديق محمد المصفيح, تقدير البصمة البيئية في المؤسسات الجامعية

17:15 - 17:30

Orale 7 : Sonia bayoudh jomaa, A new approach to characterize the adsorption process of pseudomonas putida bacteria onto nanostructured silicon carbide

17:30 - 17:45

Orale 8 : Sghaier Wouroud, Thermodynamic elucidation of HFO-1234ze (E) adsorption onto Maxsorb III through an advanced double layer model with two

17:30 - 17:45

Orale 8 : Hanen Ghanmi, Guidelines for typesetting the extended abstract

Jeudi, 27 Juin 2024

Modérateur : Mr. Anis Morai
Traduction Français/Arabe assurée

08:00 – 08:30

Accueil et enregistrement des participants

08:30-09:00

- Allocation de bienvenue, Mr. Mohamed Jallouli, PDG pôle technologique de Gafsa
- Allocation de Mme Ingrid Milcent, pôle de compétitivité TENERDIS
- Allocation de Mr. Mohamed Alasswed, délégation libyenne/expertise France Lybie
- Allocation d'ouverture, Mme Fatma Thabet ministre de l'Industrie, des Mines et de l'Energie

09:00-09:30

Contexte National et transition énergétique. Stratégie nationale de l'Hydrogène vert
Mr. Fathi Hamed (ANME). Amel Miled (ANME)

09:30-10:00

Mesure et réduction des impacts environnementaux et Mécanisme d'Ajustement Carbone aux Frontières (MACF)
Lucile Trevisan, In Extenso

10:00-10:30

Pause-café

Modérateur : Mr. Anis Morai
Traduction Français/Arabe est assurée

10:30-11:30

Panel 1 :

- Mr. Marion Allimon et Mr. Youssef chaouch (Expertise France en Tunisie) : financement dédié à la Transition énergétique écologique
- Mr. Ali Kanzari président de la CSPV (chambre syndicale du photovoltaïque) : Vers une transition énergétique durable : les solutions innovantes de photovoltaïque et de l'hydrogène
- Mr. Ezzedine Abusnen/ Lybie
- Mr. Bilel Mannoubi/ sunrise solar power
- Mr. Ezzedine Nehdi, Professeur à l'ISSTE, Membre du Labo "Energétique et Environnement"
- Mr. Lakdar Kairouani, Professeur à l'ENIT, Directeur du Labo "Energétique et Environnement"
- Pr. Ammar Hidouri Responsable de l'axe Energie au sein du laboratoire de recherche TEMI de la FS-Gafsa

Modérateur : Mr. Anis Morai
Traduction Français/Arabe assurée

11:30-12:30

Panel 2:

- Mme Mahbouba AMAIRI et M. Mohamed Kouissi (STEG) : Rôle de la STEG dans la transition énergétique et la décarbonation en Tunisie/ Programme SMART Grid
- Mr. Oussama Enagatti / Poulina groupe holding PGH
- Mme Fatma boubaker CPG / Aperçu des consommations énergétiques de la CPG
- Mr. Hatem ben Gaied / CGT
- Mr. Hicham Turki/ ATT
- Mr. KAMEL KHALDI / ABO ENERGY.
- Mr. Taher K. Belhassan représentant Lybien société
- Pr. Elaloui Elimame Professeur et directeur du Laboratoire d'Application des Matériaux à l'Environnement,

l'Eau et l'Energie

- Mr. Kamel Alimi : Professeur et directeur de l'INRAP, Institut National de Recherche et d'Analyse Physico-Chimique

12:30-14:00 Déjeuner

Session 1 (Energie) PRESIDENT: Pr. Lakhdar kairaouani	Session 2 (Matériaux) PRESIDENT: Pr. Béchir Hamrouni
<p>14:00 – 14:15 Orale 9: El Hadj Amel, Numerical investigation of turbulent hydrogen enriched methane flame.</p>	<p>14:00 – 14:15 Orale 9: Ali Mansouri, Comparison and analysis of different MPPT technique for the PV system</p>
<p>14:15 – 14:30 Orale 10: Wahiba tili, Numerical and experimental study of the performance of a $\text{CH}_3\text{NH}_3\text{PbI}_3$ perovskite solar cell using spiro-ometad as the hole transport layer</p>	<p>14:00 – 14:15 Orale 10: Mohamed Mbarek, New designed nanofibers involving f8bt and stilben for organic nano-optoelectronic application</p>
<p>14:30 – 14 :45 Orale 11: Yasser fathi nassar, Feasibility of Concentrating Solar Power as a Solar Fuel for Electrical Power Stations: A Case Study of Ubari Gas-Power Station in Libya</p>	<p>14:30 – 14 :45 Orale 11: Samir Zidi, Enhancing thermal performance of composite materials with natural fiber reinforcement for sustainable energy applications</p>
<p>14 :45 – 15 :00 Orale 12: Taher K. Belhassan, Energy Transition in Libya</p>	<p>14 :45 – 15 :00 Orale 12: Ameri Mohammed, Physico-chemical characterization of a quaternary alloy</p>
<p>15 :00 – 15 :15 Orale 13 : Matthieu kanyama kongolo, Numerical simulations of drying process of the drc plantain bananas</p>	<p>15 :00 – 15 :15 Orale 13: Miftah Ali bin Yazeed, The structural, optical properties and conduction mechanism of $\text{LiCo}_0.5\text{Mn}_0.5\text{O}_2$</p>
<p>15 :15 – 15 :30 Orale 14 : Walid ABIDI, Impact of regulated deficit irrigation (RDI) on agro-physiological parameters of pistachio (<i>Pistacia vera</i> L. Cv, Mateur</p>	<p>15 :15 – 15 :30 Orale 14: Ben alaya Chaouki, Silicon heterojunction solar cell featuring dopant-free carrier-selective titanium oxide and molybdenum oxide contacts</p>

15 :30-16:00 Pause-Café & Session Poster

16 :00-16 :35

L'Hydrogène vert : Une opportunité économique pour la Tunisie, des défis scientifiques et environnementaux

Prof. Chiheb Bouden

16h35-17h00

NALDEO/ intervention en visio sur la decarbonisation

M. Alexandre Deydier

Session 1 (Energie) PRESIDENT: Pr. Mouldi Chrigui	Session 2 (Matériaux) PRESIDENT: Pr. Mohamed Ellouze
<p>17:00 – 17:15 Orale 15 : Belkhiria Sihem, Solid Hydrogen storage</p>	<p>17:00 – 17:15 Orale 15 : Laila Houd, Study of the efficiency of iron slag based geopolymer as innovative material to prepare membranes for water treatment</p>
<p>17:15 – 17:30 Orale 16: Abubaker awidat salem, Feasibility of concentrating solar power as a solar fuel for electrical power stations: a case study of ubari gas-power station</p>	<p>17:15 – 17:30 Orale 16: Ikram Ammar, Simulation and optimization of p-i-n detector based on $\text{In}_x\text{Ga}_{1-x}\text{As}_{1-y}\text{Bi}_y/\text{In}_x\text{Ga}_{1-x}\text{As}$</p>



in libya	
<p>17:30 – 17:45 Orale 17: Mohamed M. Albarghot, Sizing, simulation, and modelling for a 1mw solar pv plant to produce green hydrogen in misratah-libya</p>	<p>17:30 – 17:45 Orale 17: Mohamed Houcine Dhaou, Numerical study of metal hydride beds with $\text{LaNi}_{4.88}\text{Al}_{0.12}$ alloy for hydrogen compression</p>
<p>17:45 – 18:00 Orale 18: Pr. Béchir Hamrouni, Preparation and characterisation of green membranes for environmental application</p>	<p>17:45 – 18:00 Orale 18: Pr. Lakdar Kairouani, Autonomous and Smart Green MVC Desalination Plant</p>

Vendredi, 28 Juin 2024

8:00 – 8:45

La recherche scientifique face aux défis de la transition énergétique en Tunisie

Prof. Maher Ben Cheikh

Session 1 (Energie) PRESIDENT: Maher Ben Cheikh	Session 2 (Matériaux) PRESIDENT: Mohamed Mbarek
8:45 – 9:00 Orale 19 : Kamel Khaldi , ABO Energy sur la scène internationale et nationale	8:45 – 9:00 Orale 19: Abdarraouf Jraba , Enhancement of tio2 nps absorption capacity of cadmium by amine and thiol functionalization: application on synthetic cadmium solutions
9:00 – 9:15 Orale 20: Salah Gnefid , Techno-Economic Analysis of solar energy developing technologies in libyan residential communities	9:00 – 9:15 Orale 20: Mariem Ltayef , A deeper investigation of the new organic nanocomposite (MEH-PPV-P3HT:SWCNT) for organic photovoltaic application
9:15 – 9:30 Orale 21 : الطاهر محمد الطاهر الزروق , تحديد أفضل المواقع لإنشاء محطة الواح تجميع الطاقة الشمسية في الجزء الشمالي الغربي من ليبيا بواسطة نظم المعلومات الجغرافية	9:15 – 9:30 Orale 21 : Jihen Maamria , Synthesis, characterization, and photocatalytic degradation properties of sns and sns ₂ nanoparticles
9:30 – 9:45 Orale 22 : Narjes Abdennebi , Valorisation des eaux saumâtres par nanofiltration en irrigation	9:30 – 9:45 Orale 22: Jihen Soli , Dispersion of a gold metal (Au) on zno nanoparticles and their influence on optical, Structural, morphological, and photocatalytic properties.
9:45-10:15 Pause-Café & Session Poster	

Session 1 (Energie) PRESIDENT: Ammar Hidouri	Session 2 (Matériaux) PRESIDENT: Pr. Mohamed Ellouze
10:15 – 10:30 Orale 23 : Nidhal Hnaïen , Enhancing heat transfer in turbulent impinging jets array: number of jets and impact height effect	10:15 – 10:30 Orale 23 : Khaled Brahmi , Investigating leaching parameters for enhanced rare earth elements sustainability and recovery from phosphogypsum
10:30 – 10:45 Orale 24 : Fatma Boubaker , Aperçu des consommations énergétiques de la CPG	10:30 – 10:45 Oral 13: Samaher Chebil Molecular design of novel D-π-A-π-D type electron donors for small molecule organic solar cells with efficiency over 13%: DFT and TD-DFT study
10:45 – 11:00 Orale 25: Maria Amaid , Comparison and analysis of different MPPT technique for the PV system	10:45 – 11:00 Orale 25 : Al Aboub AlSiddiek , Root cause analysis of mdea regenerator cracks
11:00 – 11:15 Orale 26 : Ezzedine Nehdi , Modeling Evaporative Cooling System Integration With Wind Catcher For Poultry House Cooling: A CFD Study	11:00 – 11:15 Orale 26 : Ali Abdulshahed , Utilizing large language models for accurate state-of-charge estimation in lithium-ion batteries
11:15 – 11:30 Orale 27 : Amira Akrouti Thermal characterization of eco-composites from Egg-shell/PEG for thermal energy storage	11:15 – 11:30 Orale 27 : Gouadria Hamida , Experimental study of Bi-based organic inorganic hybrid perovskite
11:30 – 11:45 Orale 28: Slah Hlali , Thermal dependance on electrical properties of tin/al2o3/p-si mis structure.	11:30 – 11:45 Orale 28: Rachid Thaljaoui , Low cost and friendly cooling technologies based manganite

Les Posters

Poster 1 : Ikhlass Marzouk Trifi , Removal of nitrite by donnan dialysis

Poster 2 : Chiraz Hannachi, Preparation and caracterisation of green membranes for environmental application

Poster 3: Fatma Guesmi, Response surface methodology for optimization of chromium removal from water by adsorption on coffee grounds

Poster 4 : Mouna Abouda, Exergoeconomic Analysis Of A New Refrigeration System With Two-Phase Ejector And Parallel Compression Using Hydrocarbon As A Refrigerant

Poster 5 : Rania Hammemi, A Novel Libr-H₂o Absorption Cooling System incorporating A Turbo-Compressor

Poster 6 : Ahmed Ali Awhida, Tracking Radon Gas Using IoT Technologies

Poster 7 :Walid Abidi, Impact of regulated deficit irrigation (RDI) on agro-physiological parameters of pistachio (*Pistacia vera* L. Cv, Mateur

Poster 8 : Youssef A. Waheshi, Sizing, simulation, and modelling for a 1mw solar pv plant to produce green hydrogen in misratah-libya

Poster 9: Moufida Krimi, Structural, Optical, and conduction mechanism of Lead-Free CsMnCl₃perovskite.

Poster 10: Alaa Guennich Smart Energy Management

Poster 11: Mariem Fezai Integration of an evaporative cooling system with a wind catcher for poultry house cooling: a CFD modeling study

Poster 12. Khaled Brahmi Revolutionizing Polymer Inclusion Membranes: Advancements in Mechanical Strength and Antibacterial Properties for Heavy Metals Extraction from Tunisian chemical Group Acidic wastewater

Poster 13 : Sana Ncib, Electro-membrane extraction of cadmium with Aliquat 336 extractant from Tunisian chemical Group Acidic wastewater

Poster 14: Mohamed Ali Gnaoua : Renewable energies

Cérémonie de clôture