Advanced Materials, Manufacturing, AI, and Industrial Innovation

# AM$^2$I Week–2026

# 20-22 October, 2026



**Professor Tounsi Abdelouahed**

*Conference Chair*



**Dr Salim Belouettar**

*Conference Vice-Chair*

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Société Nationale d'Assurance

# PLENARY SPEAKERS



### Franz Pirker

AC2T Research GmbH

His work includes tribology, materials characterisation and digital services that connect experimental data with industrial applications.



### Professor Qian Shao

Wuhan University, China

Her research focuses on physics-informed machine learning for materials design, integrating physical laws and data-driven models to accelerate materials discovery and optimise material properties.



### Dr Peter Klein

Fraunhofer Institute for Industrial Mathematics (ITWM)

His research includes industrial mathematics, materials modelling and simulation workflows that support engineering and design decisions.



### Professor Heinz A. Preisig

Norwegian University of Science and Technology (NTNU)

His work focuses on process systems engineering, modelling methods and interoperable engineering workflows.



### Dr. Natalia Konchakova

Helmholtz-Zentrum Hereon

Her research includes materials modelling and simulation, lightweight metals and protective coatings.



### Dr Henri Perrin

Luxembourg Institute of Science and Technology (LIST)

His Research focuses on advanced sustainable composite manufacturing.



### Professor Olivier Polit

Université Paris Nanterre, LEME

His work centres on computational mechanics and finite-element modelling of composite and sandwich structures.



### Karim Sidi Ali Cherif

CEA-Liten / IAM-I

He is Deputy Director for Institutional and European Affairs at CEA-Liten and First Vice-President of IAM-I.



### Professor Rachid Boukhili

Polytechnique Montréal, Canada

His research focuses on composite materials, manufacturing processes, mechanical characterisation, and durability.

# LOCAL ORGANISING COMMITTEE



### Dr. Chahinez Kandouci

Local Organising Committee

Responsible for supporting the organisation and coordination of the conference activities.



### Dr. Kouider Bendine

Local Organising Committee

Contributing to local coordination and the organisation of conference sessions and activities.



### Dr. Ilias Mohammed Amine Ghermaoui

Local Organising Committee

Contributing to the organisation and smooth running of the conference programme.

# PROGRAMME

## AM²I 2026 Conference Programme

**Conference Thematics:**

1. Advanced Materials
2. Modeling and Simulation
3. Manufacturing Technologies
4. Computational Engineering
5. Energy and Sustainability

### Day 1 — Tuesday, 20 October 2026 — Opening Day (In-Person)

| Time | Activity / Session |
|---|---|
| 09:00–09:30 | **Registration and Welcome Coffee** |
| 09:30–09:45 | **Welcome Speech — Rector** |
| 09:45–10:00 | **Welcome Speech — Conference Chair** |
| 10:00–10:15 | **Welcome Speech — Conference Vice-Chair** |
| 10:15–10:55 | **Plenary Keynote 1: Franz Pirker**  *From Safe and Sustainable Design to Digital Identity* *Moderators: Prof. Bouziani Merahi, Prof. Salim Belouettar, Prof. Rachid Mhamdia* |
| 10:55–11:25 | *Coffee Break and Networking* |
| 11:25–12:05 | **Plenary Keynote 2: Peter Klein**  *Optimal-Design-of-Experiment driven SSbD innovation processes and the DPP* *Moderators: Dr. Bendine Kouider, Prof. SAHLI ABDERAHMANE* |
| 12:05–13:20 | *Lunch Break* |

**Afternoon Session — Oral Sessions (4 Parallel Rooms)**

| Time | Room 1 | Room 2 | Room 3 | Room 4 |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| 13:20–14:20 | **Session 1: Advanced Materials (Topic 1)** *Presidents: Prof. ELADJRAMI Mohammed & Prof. BELHOUARI Mohamed* | **Session 2: Modeling and Simulation (Topic 2)** *Presidents: Prof. BOUSAHLA Abdelmoumen Anis & Prof. BENYOUCEF SAMIR* | **Session 3: Manufacturing Technologies (Topic 3)** *Presidents: Prof. BOUKHOULDA FAROUK BENALLEL & Prof. AIT KACI DJAFFAR* | **Session 4: Computational Engineering (Topic 4)** *Presidents: Dr. Medjdoub M & Prof. Merzoug M* |
| 14:20–15:20 | **Poster Session 1: Topics 1 & 2** *Chairs: Dr. Satla Zouaoui & Dr. Tounsi Abdeldjabar* | | | |
| 15:20–16:20 | **Poster Session 1 continues / Networking** | | | |
| 16:20–17:00 | **Poster Session 1 continues / Networking** | | | |
| 17:00 | **End of Day 1** | | | |

## Day 2 — Wednesday, 21 October 2026 — Plenary and Parallel Sessions (In-Person)

**Morning Session — Keynotes and Poster Session**

| Time | Activity / Session |
|---|---|
| 09:00–09:40 | **Plenary Keynote 3: Olivier Polit**<br><br>*Theoretical and numerical models for composite shell structures*<br>*Moderators: Prof. Bachir Bouidjra Belabbes, Dr. Bourada Fouad* |
| 09:40–10:20 | **Plenary Keynote 4: Karim SIDI ALI CHERIF**<br><br>*The future of advanced materials R&I in Europe: IAM-I and its Vision 2040*<br>*Moderators: Prof. Saidi Hayat, Dr. Kandouci Chahinaz* |
| 10:20–10:50 | **Poster Session 2: Topics 3 & 4**<br>*Chairs: Prof. Kacha Arslan & Dr. Belifa Hicham* |
| 10:50–11:30 | **Plenary Keynote 5: Henri Perrin**<br><br>*Advanced manufacturing of sustainable composites: from novel resin chemistries to process innovation*<br>*Moderators: Prof. Miloua Hadj, Prof. Fekirini Hamida* |
| 11:30–12:30 | *Lunch Break* |

**Afternoon Session — Keynotes and Poster Session**

| Time | Activity / Session |
|---|---|
| 13:30–14:10 | **Plenary Keynote 6: Natalia Konchakova**<br><br>*Materials in Service: Acceleration of Advanced Materials Discovery and Industrial Uptake*<br>*Moderators: Prof. Bourada M, Prof. SAIDI HAYAT* |

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|---|---|
| 14:10–14:50 | **Plenary Keynote 7: Heinz Preisig**<br><br>*Digitalisation from experiment, plant and digital twin to interoperable repositories*<br>*Moderators: Dr. Bendine Kouider, Prof. Salim Belouettar* |
| 14:50–15:20 | **Poster Session 3: Topic 5**<br>*Chairs: Dr. Boukhoulda Abdelaziz & Dr. Lahcen Abdelkader* |

| Time | Room 1 | Room 2 | Room 3 | Room 4 |
|---|---|---|---|---|
| 15:20–16:20 | **Session 5: Advanced Materials — Part 2 (Topic 1)**<br>*Presidents: Prof. Fekih Mohamed & Dr. Benouis Khadija* | **Session 6: Modeling and Simulation — Part 2 (Topic 2)**<br>*Presidents: Prof. Bouziane Mohammed Mokhtar & Prof. Chaib M* | **Session 7: Computational Engineering — Part 2 (Topic 4)**<br>*Presidents: Prof. Moulgaada AbdelMajid & Prof. Benamara Nabil* | **Session 8: Manufacturing Technologies — Part 2 (Topic 3)**<br>*Presidents: Miloudi AbdelKader & Prof. Kadouri Kacem* |
| 16:20–17:00 | **Poster Session 3 continues / Networking** | | | |
| 17:00 | **End of Day 2** | | | |

## Day 3 — Thursday, 22 October 2026 — Online Session (Virtual Day)

**Morning Session — Online Sessions**

| Time | Activity / Session |
|---|---|
| 09:00–09:40 | **Plenary Keynote 8: Prof. Qian Shao**<br><br>*AI for Computational Mechanics: From Materials Discovery to Fracture Analysis* |
| 09:50–12:00 | **Online Session 1: Advanced Materials (Topic 1)**<br>*Chairs: Dr. Cherfi M, Dr. Bachir Bouidjra Rabab* |
| 09:50–12:00 | *Virtual Coffee Break* |
| 09:50–12:00 | **Online Session 2: Modeling and Simulation (Topic 2)**<br>*Chairs: Dr. Tebboune Wafaa, Dr. Bourada Fouad* |
| 09:50–12:00 | *Virtual Lunch Break* |
| 09:50–12:00 | **Online Session 3: Manufacturing Technologies (Topic 3)**<br>*Chairs: Dr. Benhamouda M, Dr. Khouzaboui Abdelkader* |
| 09:50–12:00 | **Online Session 4: Computational Engineering (Topic 4)**<br>*Chairs: Prof. Kacha Aeslan, Dr. Bezzerouki Mhadjia* |
| 09:50–12:00 | *Virtual Coffee Break* |
| 09:50–12:00 | **Online Session 5: Energy and Sustainability (Topic 5)**<br>*Chairs: Dr. Ait Sidhom Imen, Dr. Lahcen Abdelkader* |
| 09:50–12:00 | **Closing Ceremony and End of AM²I Week-2026** |

# Detailed On-Site Oral Sessions

## Session 1: Advanced Materials (Topic 1) — Day 1, Room 1

*Presidents: Prof. ELADJRAMI Mohammed & Prof. BELHOUARI Mohamed*

| # | Author | Title |
|---|---|---|
| 1 | Abdelhafid MALLEK | From Finite Element Iterations to Clinical Treatment Duration |
| 2 | Gouttal Kadidja | Algerian KT1 Kaolin-Based Ceramic Microfiltration Membrane |
| 3 | MOULAY Awatif AMARIA | Performance of Bio-Based Hydrogel Coatings |
| 4 | SEKKOUM Asmaa | Experimental Investigation and ML Prediction |

## Session 2: Modeling and Simulation (Topic 2) — Day 1, Room 2

*Presidents: Prof. BOUSAHLA Abdelmoumen Anis & Prof. BENYOUCEF SAMIR*

| # | Author | Title |
|---|---|---|
| 1 | Sohbi Douaa Khadidja | Interactive FGM Plate Analysis via Reduced I-FSDT |
| 2 | MAI DJAZIA | Modélisation dynamique d'un drone à voilure fixe |
| 3 | BEN AMEUR Hibat Allah | THE MINI DRONE KECHEF WING SIZING |
| 4 | MATARI Nabil | REDUCING BUILDING ENERGY CONSUMPTION |

## Session 3: Manufacturing Technologies (Topic 3) — Day 1, Room 3

*Presidents: Prof. BOUKHOULDA FAROUK BENALLEL & Prof. AIT KACI DJAFFAR*

| # | Author | Title |
|---|---|---|
| 1 | Abdelkader Mekemeche | Numerical Optimization of Bifacial p-Type PERC+ Solar Cells |
| 2 | Dounane Nawal | AI-Based Prediction of Compressive Strength of SCC |
| 3 | Mohammed Taher Amine SAHRAOUI | Q-CLAKSE: Quantum-Resistant Key Agreement |
| 4 | Bochra Triqui Kaid-Slimane | AI-Based Automated ECG Anomaly Detection |

## Session 4: Computational Engineering (Topic 4) — Day 1, Room 4

*Presidents: Dr. Medjdoub M & Prof. Merzoug M*

| # | Author | Title |
|---|---|---|
| 1 | Rabah Bouzidi Kaouther | Semantic Interoperability for Hospital Drug Logistics |
| 2 | Mohammed Chaouki ZIARA | Depth-Guided Semantic Navigation |
| 3 | SOUAAD BELHIA | Deep Reinforcement Learning for Low-Latency QoS |
| 4 | Amari farah | Deep RL for QoS Optimization |

## Session 5: Advanced Materials — Part 2 (Topic 1) — Day 2, Room 1

*Presidents: Prof. Fekih Mohamed & Dr. Benouis Khadija*

| # | Author | Title |
|---|---|---|
| 1 | Mustapha BENACHOUR | Welding residual stress effects on fatigue crack growth |
| 2 | Bouanani Rania | Deep RL for QoS Optimization |

| | | |
|---|---|---|
| 3 | Souaad BELHIA | Domain Adaptation and Transfer Learning for Indoor CO |

## Session 6: Modeling and Simulation — Part 2 (Topic 2) — Day 2, Room 2

*Presidents: Prof. Bouziane Mohammed Mokhtar & Prof. Chaib M*

| # | Author | Title |
|---|---|---|
| 1 | MERAD BOUDIA Sofiane Boumedyen | Finite Element Modeling of Steel T-Stub Connection |
| 2 | Hellal Abdelkader | Machine Learning for Hydrosedimentary Modeling |
| 3 | meriem mouffok | Synthesis of Copovidone in Biopolymer Systems |
| 4 | BELHOUCHAT SEBTI | CFD Combustion of Three Green Propellants |

## Session 7: Computational Engineering — Part 2 (Topic 4) — Day 2, Room 3

*Presidents: Prof. Moulgaada AbdelMajid & Prof. Benamara Nabile*

| # | Author | Title |
|---|---|---|
| 1 | Nouh BELHEIRANE | Intelligent Cybersecurity for IIoT |
| 2 | Benchohra mamia | A new HSDT for isotropic and FG sandwich plates |
| 3 | Abdelbari salima | Influence of Admixtures on Rheological Properties |
| 4 | MEGHERBI Mohammed Rafik | Buckling Response of Composite Beam with SWCNTs |

## Session 8: Manufacturing Technologies — Part 2 (Topic 3) — Day 2, Room 4

*Presidents: Miloudi AbdelKader & Prof. Kadouri Kacem*

| # | Author | Title |
|---|---|---|
| 1 | Benziada Radia | Building envlope strategy for energy efficient hosting in arid climate |
| 2 | Bounouara zohra | Geotechnical Characterization of Soil–Bentonite Mixtures |
| 3 | Tawfiq Bendahou | Free vibration analysis of sandwich shells with CNT |

# Poster Sessions — 3 Parallel Sessions

*Poster Session Chairs: Session 1: Dr. Satla Zouaoui & Dr. Tounsi Abdeldjabar Session 2: Dr. Liamani Samira & Pr. Belifa Hicham Session 3: Dr. Boukhoulda Abdelaziz & Dr. Lahcen Abdelkader*

## Poster Session 1: Topics 1 & 2 — Day 1 Afternoon (14:20–15:20)

*Chairs: Dr. Satla Zouaoui & Dr. Tounsi Abdeldjabar*

**Topic 1: Advanced Materials (15 posters)**

| # | Author | Title |
|---|---|---|
| 1 | Mohammed El-Amine Nouairi | Time-resolved UV–visible spectroscopic monitoring of pyridine |
| 2 | SLAMANI Amel | Structural, electronic, optical properties of SrTiO Perovskite |
| 3 | Kheira AMEUR | FTO/GO/Cs2AgBiBr6/Cu2O/Au Double Perovskite Solar Cells |
| 4 | BOUALEM SOUMIA | DFT of "Push–Pull" Chromophores |
| 5 | Zouablia Riadh | Binary CoP3 and Ternary FeCoP3 Skutterudites |
| 6 | Benseddik Nadia | ZnTiN Solar Cells via SCAPS-1D Modeling |
| 7 | SI AFIF Kaoutar | Juniperus-Derived Green Synthesis of ZnO NPs |
| 8 | TAGRARA Samira Hassiba | Flexion des Nanopoutres |
| 9 | Bounouara Fatima | FG Nanoplates in Biopolymer Media |
| 10 | Bouafia halima | Structural behavior of bubbles |
| 11 | KAWTHER Fatima Zohra EZZINE | InHgF3 perovskite properties |
| 12 | Fatiha BENADDI | Anti-Perovskite LiOCl |
| 13 | Mohammed Merzoug | Modélisation prédictive des interactions outil/plaques lors du soudage par friction malaxage par points (FSSW) de l'alliage d'aluminium AA3003 |
| | | |
| 14 | TEBBOUNE Wafa | Improved FSDT for FG-CNT beam |
| 15 | Liamani Samira | Hybrid Repair of Cracked Aluminum Plates |

## Poster Session 2: Topics 3 & 4 — Day 2 Morning (10:20–10:50)

*Chairs: Prof. Liamani Samira & Dr. Belifa Hicham*

**Topic 3: Manufacturing Technologies (14 posters)**

| # | Author | Title |
|---|---|---|
| 1 | Mohammed Chams Eddine Ezzine | Aging of FDM-Printed ABS, PLA and TPU |
| 2 | Mohammed Chams Eddine Ezzine | Thermal Effects on ABS–PLA–TPU Hybrids |
| 3 | kharroubi fatima zohra | AI-Driven Security for Healthcare IoT |
| 4 | Rahmani kheira | AI Optimization of Floor Diaphragms |
| 5 | Khedidja Boulanouar | Adaptive LQI Quadrotor Tracking |
| 6 | Afaf Benaouda Chaht | MPTCP Schedulers Performance |
| 7 | Mohammed Ayad | Bridge Damage AI Analysis |
| 8 | Mohamed Benadda | FRP-Strengthened RC Beams |
| 9 | Zakaria Matari | Masonry Walls with Shape Memory Alloys |
| 10 | Chabane Nesrine | Building Retrofit Pareto Analysis |

| | | |
|---|---|---|
| 11 | Wissem BELKHEIR | Capacity in Shared-Lane Signal Operations |
| 12 | Korichi Sabrin | Assessing Bio-Based Insulation Materials for Energy Savings in a Hot Desert Climate: A Simulation-Based |
| 13 | KERMACHE Youcef Nacer Eddine | Study of Active Boundary-Layer Control by Blowing and Suction over a NACA 4415 Airfoil |
| 14 | Salima Ben mansour | Recycling of milled asphalt pavement agregates in concrete: experimental assessment and feasibility in the |

**Topic 2: Modeling and Simulation (15 posters)**

| # | Author | Title |
|---|---|---|
| 1 | ACHOUR aida | Crack Simulation (CDP vs. XFEM) in RC Beams |
| 2 | LOUSDAD Aymen Aziz | Heat Generation in Railway Brake Discs |
| 3 | Messaouda ELALEM | Herschel–Bulkley Fluid Flow Modeling |
| 4 | SAIDI Hayat | FGM Porous Nano-Plate |
| 5 | bahar sadek | Prestressed Concrete Beams Using Abaqus |
| 6 | Fatima Zohra Mecieb | PCM Melting in Finned Storage System |
| 7 | AMERI Anfel | FG Porous Plates Quasi-3D Theory |
| 8 | KADDOURI Nadia | Damaged Aluminum Plates Repaired with Composite Patches |
| 9 | Dekmous Meriem | Electrode–Electrolyte Double Layer |
| 10 | AIT SIDHOUM Imene | Elastic Foundation Effect on Composites |
| 11 | Bouallala manal | Wireless optical communication offers a promising approach to high-speed data transmission in aircraft, |
| 12 | Bourada Fouad | GPL-Reinforced FG Plates on Kerr Foundations |
| 13 | Mohamed Bourada | Buckling of FG Sandwich Beams |
| 14 | LAHCENE ABDELKADER | Turbine Blade Cooling Channel Modeling |
| 15 | KADDOURI Yahia | A Highly Efficient 2D RVE Finite Element Model for the Mechanical Characterization of Randomly Oriented Short-Fiber Composites |

## Poster Session 3: Topic 5 — Day 2 Afternoon (14:50–15:20)

*Chairs: Dr. Boukhoulda Abdelaziz & Dr. Lahcen Abdelkader*

**Topic 5: Energy and Sustainability (8 posters)**

| # | Author | Title |
|---|---|---|
| 1 | Djazia leila Benmansour | Dates and Sugar Beet for Bioethanol |
| 2 | ARAAR NEDJEMA | Structure–Property Relationships in Sustainable Natural-Fibre-Reinforced |
| 3 | NAOUM Halima | Laser Shock Peening on AA2024-T351 |
| 4 | Noureddine terranti | Electron Elastic Scattering from Cytosine |
| 5 | Abdelkader Miloudi | Overload Effect on Fatigue Crack Propagation |
| 6 | Bouziane Nasreddine | Carrier Transport in Perovskite Solar Cell |
| 7 | Aounallah Meriem Sara | An AI-Driven NLP Framework for Intelligent Candidate Profiling and Recruitment Support |
| 8 | HADJADJ brahim | a-Si/µc-Si/c-Si Heterojunction Solar Cell |
| 9 | BENYETTOU AICHA | Development of a Sustainable UV Photodetector for Renewable Energy Applications: Energy Efficiency, |

**Topic 4: Computational Engineering (8 posters)**

| # | Author | Title |
|---|---|---|
| 1 | ROUIDI Khadidja | Molecular Dynamics for Bitumen |
| 2 | ROUIDI Khadidja | Digital Modelling of Bitumen Glass Transition |
| 3 | Hacene Imene | Simulation-Based Evaluation of Simplified Passive Optical |
| 4 | CHERFI MOHAMED | Weld Spot Arrangement on TRIP 800 Steel |
| 5 | Hala Mahammedi | CsPb0.5Sn0.5Br3 Perovskite Properties |
| 6 | BACHIR BOUIADJRA Ilyes | One-Way FSI Analysis of UAV Wing |
| 7 | Rachid Safia | Hybrid Composite Aeronautical Structures |
| 8 | Bouziane Abdennour | Copper–Plastic Vibratory Separation |

# Online Sessions — Day 3 (Thursday, 22 October 2026)

**Morning Session — Online Sessions**

**Time Activity / Session**

09:00–09:40 **Plenary Keynote 8: Prof. Qian Shao**



*AI for Computational Mechanics: From Materials Discovery to Fracture Analysis*

## Online Session 1: Advanced Materials (Topic 1) — 09:00–12:30

*Chairs: Dr. Cherfi M, Dr. Bachir Bouidjra Rabab*

| # | Author | Title |
|---|---|---|
| 1 | CHELAHI CHIKR Yamina | Repair of Multiple Cracks Using Bonded Patches |
| 2 | BENKABOU Rim | Ceramic Sanitaryware Waste Geopolymer Mortars |
| 3 | Lazizi amina | J-Integral in Cracked RC Beams with CFRP |
| 4 | Mentefa Amal | Half-Heusler VOsAs Properties |
| 5 | Nouria Aouail | DFT of Calcium Oxide "CaO" |
| 6 | MOUNIS Noureddine | Eu3Pd2Sn2 Phonon Calculation |
| 7 | Hassen MESBAH | TlCaF and TlSrF Fluoroperovskites |
| 8 | MIHOUBI BESMA | Mixed-Metal Perovskite Oxide Photodegradation |
| 9 | Drouni Wassila Abir | Dy2Be2GeO7 Thin Films Optical Properties |
| 10 | khadidja benayed | C15 Cubic Laves Phases ZrFe2, HfFe2, LuFe2 |
| 11 | Imene BOUSSOUAR | Pillar[5]arene Nanochannel for Hg(II) Ion Gating |
| 12 | Taoualit Nadjet | Methylene Blue Retention on Sawdust |
| 13 | BENOMAR SARRAH | CsLaNbS Multi-Disciplinary Material |

## Online Session 2: Modeling and Simulation (Topic 2) — 09:00–12:30

*Chairs: Dr. Tebboune Wafaa, Dr. Bourada Fouad*

| # | Author | Title |
|---|---|---|
| 1 | SEGHIR ABDALLAH Houcine | BaYGa Half-Heusler Alloy Properties |
| 2 | Asma Abed | Three-Pad Squeeze Film Damper with ER Fluid |
| 3 | Kaouther MADASSI | LED Street Luminaires Cooling |
| 4 | FELLOUH Abdelkadir | Fire Safety of Composite Concrete–Steel Structures |
| 5 | OUADAH Abbes | Hybrid CNTRC Plates Dynamic Stability |
| 6 | Nouri assia | Shear Behaviour of RC Beams without Stirrups |
| 7 | Amira SADGUI | Buckling of Graded Sandwich Plates by FEM |
| 8 | AID abdeladim | Thermomechanical Stability of Fiber Composites |
| 9 | Behloul Djamila | Loading Direction on RC Barrettes Response |
| 10 | soumia merah | MPPT using PSO & GWO for PV System |
| 11 | Samia BENTAIEB | Wind Speed Forecasting in Maghreb |
| 12 | BITOUT Rayane | Energy Efficiency in Buildings |

## Online Session 3: Manufacturing Technologies (Topic 3) — 09:00–12:30

*Chairs: Dr. Benhamouda M, Dr. Khouzaboui Abdelkader*

| # | Author | Title |
|---|---|---|
| 1 | KLOUCHE FAIZA | Porosity Effect on FG Plates |
| 1 | Razie (Razieh) Izadi | Next generation variable cross-section pultrusion process: multiphysics modelling assisted experimental invistigation and validation. |
| 2 | Saida Lemnadjlia | Advanced AI Image Compression |
| 3 | Abdelhafid Sadok | Metakaolin in Self-Compacting Concrete |
| 4 | Fatah marwa | Kechef Mini-Drone CFD Study |
| 5 | Cheriet Nassira | Fins and Nanoparticles for PCM Melting |
| 6 | Merdas Khaoula | ZnO/GO Nanocomposite Films |
| 7 | HEDMESSAOUD Zine Laabidine | Timber-Concrete Composite Floors |
| 8 | Habibes samir | Corona Discharge Modeling with COMSOL |
| 9 | Kara Terki Lilia | Fluid–Structure Interaction NACA 4415 |

## Online Session 4: Computational Engineering (Topic 4) — 09:00–12:30

*Chairs: Prof. Kacha Aeslan, Dr. Bezzerouki Mhadjia*

| # | Author | Title |
|---|---|---|
| 1 | SEKKAL ABDESSAMAD | YAg Alloys with Rare-Earth Substitution |
| 2 | Raouf MEHANNAOUI | IoT for Sustainable Agriculture 4.0 |
| 3 | BELGHALI MOHAMMED | Concrete Sulfate Attack Resistance |
| 4 | Ben lemkherbeche Ilyes | STATCOM for Power Quality Enhancement |
| 5 | Ouhoud Amina | Poultry-Waste Valorization Supply Chain |
| 6 | Toufik Choungara | Eco-Composite Mortar at High Temperature |
| 7 | Boumessenegh Amel | Reduced Graphene Oxide Adsorbent |
| 8 | Dehmane Sid Ahmed | Comparative analysis of optimization methods for robotic arm manupulator |

## Online Session 5: Energy and Sustainability (Topic 5) — 09:00–12:30

*Chairs: Dr. Ait Sidhom Imen, Dr. Lahcen Abdelkader*

| # | Author | Title |
|---|---|---|
| 1 | NEZECHAIB DOUNIA ZAD | Eggshell Waste Biosorbent |
| 2 | Bessaid Oussama Nabil | Water-Energy-Digitalisation Nexus |
| 3 | BENALIOUA Bahia | Photocatalytic Degradation of Pollutants |
| 4 | Hafida DRIZ | Bacterial Self-Healing Concrete |

# End of Programme