



الجمهورية الجزائرية الديمقراطية الشعبية  
وزارة التعليم العالي والبحث العلمي  
جامعة قسنطينة 3 - صالح بونيدر  
معهد تسيير التقنيات الحضرية



مخبر الاستشراق الجغرافي والبيئة والتنمية (LAGED)  
بالشراكة مع

مركز البحث في تهيئة الإقليم (CRAT)  
ينظمان مؤتمرا دوليا حول:

**المياه، تغير المناخ، البيئة والاستدامة - التحديات والآفاق**



13 و 14 أكتوبر 2025

اليوم العالمي للوقاية من الكوارث الطبيعية

**برنامج المؤتمر**



v Democratic and Popular Republic of Algeria  
 Ministry of Higher Education and Scientific Research  
 University of Constantine 3 Salah BOUBNIDER  
 Urban Technical Management Institute



Laboratory of Geo-prospective, Environment and Development (LAGED)

In partnership with:

The Territory Planning Research Center (CRAT)  
 Organize an international seminar on:

**WATER, CLIMATE CHANGE, ENVIRONMENT AND SUSTAINABILITY  
 CHALLENGES AND PROSPECTS**  
 October 13 and 14 2025



# PROGRAMME





Monday 13<sup>th</sup> October 2025

| Timing  |       | Event   |
|---|-------|---|
| 8:00  | 8:30  | <p>Welcome and Registration of participants<br/> <b>Link: :<a href="https://meet.google.com/mmy-nmvc-pir">meet.google.com/mmy-nmvc-pir</a></b><br/> <b>Location: Bernslitane conference room (IGTU)</b></p>   |
| 8:30  | 9:00  | <p>Opening ceremony and official speeches<br/>           Recitation of some verses from the Holy Quran</p> <p>Speech by Mr. The Rector of the University Salah BOUBNIDER, Constantine 3<br/> <b>Prof Chaabane BEAITICHE</b></p> <p>Speech by Mr. The Director of the IGTU<br/> <b>Dr. Salim BRAGDI</b></p> <p>Speech by Ms. The President of the Symposium<br/> <b>Dr Latifa BOULAHIA</b></p> |
| <p><b>Moderators: Dr Nabil MENCHAR</b><br/> <b>Reporter: Dr Oussama Med Sedik BELEHMADI</b></p> |       |   |
| 9:00  | 9:30  | <p>1st Plenary<br/> <b>Prof Farès KESSASRA,</b><br/>           University of JIJEL<br/> <b>"GROUNDWATER NITRATE POLLUTION: NUMERICAL MODELING AND VULNERABILITY IN THE NORTH-EAST PART OF ALGERIA"</b></p>  |
| 9:30  | 10:00 | <p>2nd Plenary<br/> <b>Prof Sonia Dridi-DHAOUADI,</b><br/>           University of Monastir- IPEIM<br/> <b>" REINVENTER LA TEINTURE TEXTILE FACE AUX DEFIS CLIMATIQUES ET HYDRIQUES : LA VOIE DU CO<sub>2</sub> SUPERCRITIQUE"</b></p>  |

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|---|-------|---|
| 10:00   | 10:30 | <p style="text-align: center;"><b>3th Plenary</b><br/> <b>Dr. Ismail DABANLI,</b><br/> Istanbul Technical University (Turkey)<br/> <b>CLIMATE CHANGE IMPACTS EVALUATION OF UNESCO-LISTED CULTURAL HERITAGE IN TÜRKIYE</b></p>   |
| 10:30   | 11:00 | <b>DEBATE AND COFFEE BREAK</b>  |
| <b>Moderators: Prof Rokia BOUADAM,</b><br><b>Reporter: Dr Foued BOUZEHZEH</b> |       |   |
| 11:00   | 11:30 | <p style="text-align: center;"><b>4th Plenary</b><br/> <b>Djamal BENGUESMIA</b><br/> framework of studies at the National Office for Studies and Rural Development (BNEDER Algeria)<br/> <b>CLIMATE CHANGE AND ITS IMPACT ON FOOD SECURITY IN ALGERIA</b></p>   |
| 11:30   | 12:00 | <p style="text-align: center;"><b>5th Plenary</b><br/> <b>Mme Doria ADMAN</b><br/> (GIZ Algeria).<br/> <b>“Assessing Climate Risks with GIS : A Use Case from the UrbA-CliMa Project ”</b></p>  |
| 12:00   | 12:30 | <p style="text-align: center;"><b>6th Plenary (on line)</b><br/> <b>Prof Carlo Prével, PhD</b><br/> MAPDATA Laboratory (Methodologies for Assisting the Decision-Making Process in Spatial Planning and Applications)<br/> UQAT, Canada<br/> <b>REFLEXIONS SUR LES ENJEUX DE LA RECHERCHE EN SCIENCES DU TERRITOIRE :</b><br/> <b>PERSPECTIVES POUR L'AIDE A LA DECISION TERRITORIALE</b></p> |
| 12:30   | 13:00 | <b>DEBATE</b>   |
| 13:00   | 14:00 | <b>LUNCH</b>  |
| <b>ORAL SESSIONS</b>  |       |   |



AXIS 1: EXTREME EVENTS AND CLIMATE CHANGE, IMPACTS AND ACTIONS

SESSION 1:

Moderator: Dr. Oualid MEDDOUR


Reporter : Mme Halima ZAIDI

Amphi 300

[meet.google.com/mmy-nmvc-pir](https://meet.google.com/mmy-nmvc-pir)

| N° | Timing |       | Authors   | Titles  | Affiliation  |
|----|--------|-------|---|---|--|
| 01 | 14:00  | 14:10 | Sonia MAKHLOUFI 1,<br>Roukia BOUADAM 2 ,                        | RECYCLING INERT WASTE: A SUSTAINABLE STRATEGY TO PRESERVE NATURAL RESOURCES THE CASE OF INERT WASTE IN THE TOWN OF ALI MENDJELI                                 | 1 2 LAGED laboratory, IGTU, UC3 University, Algeria<br><a href="mailto:sonia.makhloufi@univ-constantine3.dz">sonia.makhloufi@univ-constantine3.dz</a>  |
| 02 | 14:10  | 14:20 | Aissa BENHAMMDA 1   | NATURAL HAZARDS ASSOCIATED WITH CLIMATE CHANGE CASE STUDY: FLOODS IN THE CITY OF TEBESSA (ALGERIA): BETWEEN PROACTIVE MEASURES AND IMPLEMENTATION EFFECTIVENESS | IGTU, Oum el bouaghi. Algeria<br><a href="mailto:benhammada.aissa@gmail.com">benhammada.aissa@gmail.com</a>  |
| 03 | 14:30  | 14:40 | Roubila CHAOUCHE TEYARA<br>Rabia CHEROUANA<br>Oumaima BENHAMMOU | ALGERIAN URBAN TERRITORIES FACING THE CHALLENGE OF CLIMATE CHANGE   | Centre for Research in Spatial Planning (CRAT)/ FSTGAT, Constantine 1 university<br><a href="mailto:roubila.chaouche.t@crat.dz">roubila.chaouche.t@crat.dz</a>                                 |
| 04 | 14:40  | 14:50 | Nadjet BOURAGBA 1 ,<br>Mohamed KACIMI 2                         | STUDY OF LANDSLIDE MECHANISMS AT THE SITE OF 440 OPGI HOUSING UNITS IN DELLYS, BOUMERDÈS: IMPACT OF DROUGHT AND HUMIDITY VARIATIONS ON CLAYEY MARL.             | Département de géologie, Université Sétif 1, Sétif. 2 Département des sciences Géologiques, FSTGAT, Université Constantine 1<br><a href="mailto:bngeologie@gmail.com">bngeologie@gmail.com</a> |



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| 05   | 14:50  | 15:00                                  | Malika LARGAT 1<br>Meriem BENLAHRECHE 2<br>Soumia DJOUABLIA 3 | THE ENVIRONMENT IN THE FACE OF<br>URBAN ACTIVITY  | IGTU, Oum el bouaghi. University/<br>Labo LAUTES Constantine 3 University,<br>Algeria<br><a href="mailto:meriem.benlahreche@univ-ueb.dz">meriem.benlahreche@univ-ueb.dz</a>                |
| 06   | 15:00  | 15:10                                  | Rabiaa DEBBACHE 1,<br>Khaled Abed Alfettah GASSI 2            | ASSESSMENT OF THE FLOOD RISK AND<br>ITS PREDICTABILITY: CASE OF THE<br>COMMUNE OF FOUKA ON MAY 25, 2023 | Constantine 1 university Direction<br>Météorologique Région Est<br><a href="mailto:debbacherabaa@yahoo.fr">debbacherabaa@yahoo.fr</a>  |
| 07   | 15:10  | 15:20                                  | Amel Bourahla<br>Hadjer Laoufi<br>Sihem Ziouche               | IMPACT OF CLIMATE CHANGE ON<br>AGRICULTURE IN THE SEMI-ARID<br>REGIONS OF ALGERIA (1901-2020)           | Online<br>Department of Agronomic Sciences<br>& LCVRN Laboratory, University<br>of Bordj Bou Arreridj, Algeria<br><a href="mailto:amel.bourahla@univ-bba.dz">amel.bourahla@univ-bba.dz</a> |
| 15:20  | 15:30  | <b>DEBATE</b>                          |   |   |  |
| 15:30  | 15:40  | <b>COFFEE BREAK AND SESSION POSTER</b> |   |   |  |
|  <p><b>AXIS 2: IMPACT OF CLIMATE CHANGE ON THE ENVIRONMENT</b><br/>SESSION 1<br/>Moderator: Prof Fares KESSASRA<br/>Reporter : Dr Adel DAIKH<br/>Location: Bernslitane conference room<br/><a href="https://meet.google.com/mmy-nmvc-pir">meet.google.com/mmy-nmvc-pir</a></p> |        |  |   |   |  |
| N°   | Timing | Authors                                | Titles  |   | Affiliation  |

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|----|-------|-------|--|---|---|
| 01 | 14:00 | 14:10 | <b>Hafida ACHOURI,<br/>D,jamila DJAGHROURI<br/>Moussadek BENABBAS</b>      | SYSTEMATIC LITERATURE REVIEW :<br>OUTDOOR THERMAL COMFORT IN<br>PUBLIC SPACES IN ALGERIA  | LACOMOFA Laboratory, University of<br>Mohamed Khider Biskra, Algeria<br><a href="mailto:hafidha.achouri@univ-biskra.dz">hafidha.achouri@univ-biskra.dz</a>  |
| 02 | 14:10 | 14:20 | <b>Mohamed DASSAMIOUR 1<br/>Rédha BOUSTILA 2<br/>Mahrez BOULABEIZ 3</b>    | ÉTUDE STATISTIQUE DE LA<br>GÉOCHIMIE DU CADMIUM ASSOCIÉ<br>AUX ; PHOSPHATES SÉDIMENTAIRES   | LGE laboratory, Constantine 1<br>university/ University of Ferhat Abbas<br>Sétif 1/3 University of Abbas Laghrour<br>Khenchela, Algérie<br><a href="mailto:mohamed.dassamiour@umc.edu.dz">mohamed.dassamiour@umc.edu.dz</a> |
| 03 | 14:30 | 14:40 | <b>Noura DJAMAA 1.2<br/>Seyf Eddine MERZOUG 2.3<br/>Chaima LABADLA</b>     | L'ETUDE DE LA QUALITE<br>PHYSICOCHIMIQUE ET<br>BACTERIOLOGIQUES DES EAUX ISSUES<br>(LIXIVIAT) AU NIVEAU DE CENTRE<br>D'ENFOUISSEMENT TECHNIQUE MILA | Centre universitaire Abd El Hafid<br>Boussouf Mila/Université 8 mai 1945<br>Guelma<br><a href="mailto:n.djamaa@centre-univ-mila.dz">n.djamaa@centre-univ-mila.dz</a>  |
| 04 | 14:40 | 14:50 | <b>Malika LARGAT 1<br/>Soumia DJOUABLIA2 &amp;<br/>Meriem BENLAHRECHE3</b> | URBAN VULNERABILITY TO CLIMATE<br>CHANGE: STUDY OF FLOOD RISK IN<br>THE NEW TOWN OF ALI MENDJELI  | IGTU, Oum el bouaghi. University/<br>Labo LAUTES Constantine 3 University,<br>Algeria<br><a href="mailto:soumia.djouablia@univ-constantine3.dz">soumia.djouablia@univ-constantine3.dz</a>                                   |
| 05 | 14:50 | 15:00 | <b>Imen SOUKEHAL 1<br/>Roukia BOUADAM 2<br/>Halima ZAIDI3</b>              | SNGID 2035 IN ALGERIA: A LEVER FOR<br>CLIMATE CHANGE MITIGATION   | LAGED laboratory, IGTU, Constantine<br>3 University, Algeria<br><a href="mailto:imen.soukehal@univ-constantine3.dz">imen.soukehal@univ-constantine3.dz</a>  |
| 06 | 15:00 | 15:10 | <b>Sihem GHERFI 1<br/>Souad HAOUARI 2</b>                                  | THE IMPACT OF HOUSEHOLD WASTE<br>ON THE ENVIRONMENT IN THE<br>CITY OF CONSTANTINE   | Urban Planning Laboratory.<br>FSTGAT, University of Constantine1<br><a href="mailto:gherfi.sihem@gmail.com">gherfi.sihem@gmail.com</a>  |

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| 07   | 15H10 | 15H20 | Sandra BOUSSETTI 1                     | TERRITORIAL STRATEGIES FOR SUSTAINABLE MANAGEMENT OF WATER RESOURCES IN THE FACE OF CLIMATE CHANGE IN SEMI-ARID ENVIRONMENT IN ALGERIA: THE CASE OF THE WILAYA OF CONSTANTINE. | IGTU, Oum el bouaghi. University, Algeria<br><a href="mailto:boussetti.sandra@yahoo.fr">boussetti.sandra@yahoo.fr</a>   |
| 15:20  |       | 15:30 | <b>DEBATE</b>                          |  |   |
| 15:30  |       | 15:40 | <b>COFFEE BREAK AND SESSION POSTER</b> |  |   |
| <b>SESSION 2</b><br><b>Moderator : Dr.Nedjoudj BOUARROUDJ,</b><br><b>Reporter : Mr.Toufik AMIRECHE</b><br>Location: Bernslitane conference room<br><a href="https://meet.google.com/mmy-nmvc-pir">meet.google.com/mmy-nmvc-pir</a> |       |       |  |  |   |
| 01   | 15H40 | 15H50 | Laala Ahmed 1,<br>Adimi Amina 2        | MODELLING THE POTENTIAL DISTRIBUTION OF A THREATENED ALGERIAN ENDEMIC SPECIES (CEDRUS ATLANTICA) UNDER DIFFERENT CLIMATE CHANGE SCENARIOS: IMPLICATIONS FOR CONSERVATION       | <b>Online</b><br>1 Laboratory (LSNM), University Center, Mila<br>2 Department of Plant Biology and Ecology, University, Sétif<br><a href="mailto:a.laala@centre-univ-mila.dz">a.laala@centre-univ-mila.dz</a> |
| 02   | 15H50 | 16h00 | Abderahim El Mehdi BELLAREDJ           | THE EFFECTS OF CLIMATE CHANGE ON GROUNDWATER QUALITY IN SEMI-ARID ZONES-CASE STUDY FROM THE TAFRAOUI-TLELAT PLAIN OF ORAN (NORTHWESTERN ALGERIA).                              | <b>Online</b><br>Laboratory SNMASAZ, Institute of Sciences, University Center Salhi Ahmed of Naâma (Ctr Univ Naama), Algeria.<br><a href="mailto:bellaredj.a@cuniv-naama.dz">bellaredj.a@cuniv-naama.dz</a>   |
| 03   | 16h10 | 16h20 | Wafa MEDJITNA,<br>Ali SAIDOU,          | POLLUTION MARINE DANS LA VILLE PORTUAIRE DE SKIKDA, MULTIPLES ALEAS ET ENJEUX.   | <b>Online</b><br>université d'Alger2<br>Ecole normale supérieure, Bouzareah<br><a href="mailto:wafa.medjitna@univ-alger2.dz">wafa.medjitna@univ-alger2.dz</a>   |

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| 04 | 16h20 | 16h30 | <b>Mohammed RABHI 1,<br/>Sidi Mohamed GHOMARI 1</b>                              | SURFACE WATER EXTENT OF A NORTHWESTERN SALT LAKES IN ALGERIA AND EVALUATION FOR ITS SUITABILITY FOR ARTEMIA BRINE SHRIMP PRODUCTION OVER 2016-2025. | <b>Online</b><br>Abdelhamid Ibn Badis University, Mostaganem, Algeria.<br><a href="mailto:rabhi.mohammed.etu@univ-mosta.dz">rabhi.mohammed.etu@univ-mosta.dz</a>                            |
| 05 | 16h30 | 16h40 | <b>Karima YOUNICI 1,<br/>Anissa KHELLADI 2, Nacera MAHFOUD 3</b>                 | PLANETARY LIMITS AND THE CHALLENGES OF SUSTAINABLE DEVELOPMENT  | <b>Online</b><br>Université Abderrahmane Mira de Bejaia.<br><a href="mailto:karima.benhattab@univ-usto.dz">karima.benhattab@univ-usto.dz</a>  |
| 06 | 16h40 | 16h50 | <b>Foudil KHALED 1,<br/>Oualid MEDDOUR 2,<br/>Amar AMIR 3<br/>Fatih SAMAI 4,</b> | CHANGEMENTS CLIMATIQUES EN ALGÉRIE, COMPRENDRE LES ENJEUX ET GÉRER LES CONSÉQUENCES: ÉLÉMENTS DE RÉFLEXION  | 1 LAGED/IGTU/UC3<br>2 LABTERDIR/IGTY/ UC 3<br>3 LAGED/IGTU/UC3<br>4 (GAT) Université Batna 2.<br><a href="mailto:foudil.khaled@univ-constantine3.dz">foudil.khaled@univ-constantine3.dz</a> |
| 07 | 16h50 | 17h00 | <b>Abdelhafid BOUGASSA</b>   | LE LITTORALE DE LA WILAYA DE JIJEL :DEVELOPPEMENT SOCIOECONOMIQUE ET PERSPECTIVES DE RESILIENCE   | Institut de Gestion des Techniques Urbaines, Université Constantine 3, Algérie.<br><a href="mailto:abdelhafid.bougassa@univ-constantine3.dz">abdelhafid.bougassa@univ-constantine3.dz</a>   |

**DEBATE**

**AXIS 3: HYDROLOGY, HYDROGEOLOGY AND WATER. CURRENT RESOURCE ISSUES AND CHALLENGES**

Moderator : Dr. Omar REDJAL

Reporters : Mme Amina BENAMIRA

Location : AMPHI 2

[meet.google.com/mmy-nmvc-pir](https://meet.google.com/mmy-nmvc-pir)



| N° | Timing | Authors | Titles | Affiliation |
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|----|--------|--------|---|---|---|
| 01 | 14:00  | 14:10  | <b>M S O BELAHMADI,<br/>Ala ABDESSEMED,<br/>Nabil CHARCHAR,<br/>Abdelfettah GHERIB.</b>   | EVALUATION DE LA CONTAMINATION DES EAUX MARINE DE LA BAIE DE SKIKDA (ALGÉRIE) PAR LES REJETS D'UNE RAFFINERIE PÉTROLIÈRE  | Centre de recherche en biotechnologie (C.R.Bt), Constantine, Algérie.<br><a href="mailto:msobelahmadi@gmail.com">msobelahmadi@gmail.com</a>   |
| 02 | 14:10  | 14:20  | <b>Naama KACHA 1,<br/>Mahrez BOULABEIZ 2<br/>Laiche AOUIDANE 2,<br/>Nesrin LAKHZOUM 3</b> | HYDROGEOCHEMICAL CHARACTERIZATION AND WATER RESOURCE CHALLENGES IN THE EL MAHMEL PLAIN AQUIFER, NORTHEASTERN ALGERIA  | Abbes Laghrour University, Khenchela/, Laboratory of Functional Ecology and Environment, University Larbi Ben Mhidi of Oum El Bouaghi, Algeria.<br><a href="mailto:naama.kacha@univ-khenchela.dz">naama.kacha@univ-khenchela.dz</a> |
| 03 | 14 :30 | 14 :40 | <b>Ahmed ALLIOUCHE (1),<br/>Mohamed Ikbal FARAH (1)</b>                                   | PROTECTION OF WATER RESOURCES AND ENVIRONMENTAL PRESERVATION IN THE CONTEXT OF CLIMATE CHANGE: THE CONTRIBUTION OF GEOMATICS TO THE SUSTAINABLE PLANNING OF TECHNICAL LANDFILL SITES IN CONSTANTINE | Centre de Recherche en Aménagement du Territoire (CRAT), Algérie.<br><a href="mailto:allioucheahmed1982@gmail.com">allioucheahmed1982@gmail.com</a>   |
| 04 | 14:40  | 14:50  | <b>Zakarya MAOU(1),<br/>Ahmed BOUGHERARA(2),<br/>Yahiaoui HABIBI(3)</b>                   | LES ZIBAN: UN MILIEU RICHE ET VULNERABLE (POTENTIALITES ET CONTRAINTES)   | 1.2 LASTERNE Laboratory, Constantine 1 university/ 3 LRNAT Laboratory, Batna-2, Algeria<br><a href="mailto:zakiapc83@gmail.com">zakiapc83@gmail.com</a>   |
| 05 | 14:50  | 15:00  | <b>Lotfi KEBAILI,<br/>Lydia OGAL</b>  | INTEGRATING AND REHABILITATING WATERWAYS IN URBAN ENVIRONMENTS: A STRATEGIC IMPERATIVE FOR A SUSTAINABLE CITY   | Department of Geography and Regional Planning, University of Oum El Bouaghi, Algeria.<br><a href="mailto:lotfikebaili@gmail.com">lotfikebaili@gmail.com</a>   |
| 06 | 15:00  | 15:10  | <b>Rayene LAMRI</b>   | URBANIZATION AND THE WATER CYCLE  | LAGED laboratory, IGTU, UC 3 University, Algeria<br><a href="mailto:rayene.lamri@univ-constantine3.dz">rayene.lamri@univ-constantine3.dz</a>  |



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| 07 | 15 :10 | 15 :20 | <b>Bahaedine HAMIDA (1),<br/>Ahmed ALLIOUCHE (2),<br/>Mohamed Ikkal FARAH (2)</b> | MONITORING THE DYNAMIC OF ATLAS CEDAR FORESTS IN THE HODNA REGION USING MACHINE LEARNING AND TIME SERIES ANALYSIS | 1 Laboratoire d'Ecologie Fonctionnelle et Environnement Université Oum El Bouaghi. <a href="mailto:hamida.bahaedine@univ-ocb.dz">hamida.bahaedine@univ-ocb.dz</a><br>2 Centre de Recherche en Aménagement du Territoire (CRAT), Algérie. |
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**DEBATE**

**COFFEE BREAK AND SESSION POSTER**

**AXIS 4. DATA ACQUISITION, ARTIFICIAL INTELLIGENCE, REMOTE SENSING,  
ENVIRONMENTAL MONITORING AND GEOSPATIAL ANALYSIS**

**Moderators: Prof Sonia DRIDI-DHAOUADI**

**Reporter : Dr. Ahmed ALLIOUCHE**

AMPHI 2

| N° | Timing |       | Authors   | Titles  | Affiliation   |
|----|--------|-------|---|---|---|
| 01 | 14:00  | 14:10 | <b>Nabil MANCHAR <sup>1</sup>,<br/>Mohamed Kacimi<sup>2</sup><br/>Badreddine SAADALI<sup>1</sup></b>  | ASSESSMENT OF THE NEOTECTONIC ACTIVITY IN THE RHUMEL-MERZOUG BASIN IN NORTHEASTERN ALGERIA USING GEOMORPHIC INDICES.              | 1Department of Geology, Faculty of Earth Sciences and Architecture, Oum El Bouaghi University Algeria.<br>2Dadeo of Geological Sciences, Faculty of Earth Sciences of Geography and Spatial Planning, University Frères Mentouri, Constantine 1, Algeria.   |
| 02 | 14:10  | 14:20 | <b>Zohra NEMILI 1<br/>Houria BAAZI 2</b>  | USE OF GEOGRAPHIC INFORMATION SYSTEMS AND SPATIAL ANALYSIS FOR GROUNDWATER QUALITY MAPPING: CASE OF THE KHENCHLA WILAYA, ALGERIA. | Laboratory (LRNAT), Faculty of Technology, Department of Hydraulic, University of Batna 2, Algeria.<br><a href="mailto:z.nemili@univ-batna2.dz">z.nemili@univ-batna2.dz</a>   |
| 03 | 14:30  | 14:40 | <b>Radia BOUARROUDJ<sup>1</sup>,<br/>Imen BENDJMILA<sup>2</sup>,<br/>Kenza BOUARROUDJ<sup>3</sup></b> | L'IA ET L'APPRENTISSAGE AUTOMATIQUE DANS LA SCIENCE CLIMATIQUE  | UC3 University, Faculty of Architecture and Urban Planning of Architecture /<br><sup>2</sup> UC3 University, Faculty of Architecture and Urban Planning of Architecture /<br><sup>3</sup> University, Abdel Hamid Mehri Constantine 2<br><a href="mailto:radia.bouarroudj@univ-constantine3.dz">radia.bouarroudj@univ-constantine3.dz</a> |

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| 04                                     | 14:40 | 14:50 | <b>Omar REDJAL 1<br/>Adel DAIKH 2<br/>Djamel ALKMA 3</b>   | DATA ACQUISITION AND ARTIFICIAL INTELLIGENCE (IA) FOR INTELLIGENT URBAN WASTE MANAGEMENT: THE EXAMPLE OF THE NEW CITY OF ALI MENDJELI (CONSTANTINE) | IGTU/ LAEEE & LAGED laboratories, UC3 University/ Guelma university<br><a href="mailto:omar.redjal@univ-constantine3.dz">omar.redjal@univ-constantine3.dz</a>   |
| 05                                     | 14:50 | 15:00 | <b>Faïcel TOUT 1<br/>Nouh REBOUH 2<br/>Haythem DINAR 3<br/>Yacine BENZID 4</b>                   | ASSESSING THE ROLE OF ANNUAL RAINFALL MAPS IN MULTI-CRITERIA ANALYSIS FOR IDENTIFYING FLOOD-PRONE AREAS   | Centre for Research in Spatial Planning (CRAT)<br><a href="mailto:tout.faïcel@gmail.com">tout.faïcel@gmail.com</a>  |
| 06                                     | 15:00 | 15:10 | <b>Adel DAIKH 1<br/>Omar REDJAL 2<br/>Samira DEBACHE 3<br/>Larbi MEDDOUR 4</b>                   | MONITORING THE AGGLOMERATION OF CONSTANTINE THROUGH REMOTE SENSING AND GEOSPATIAL ANALYSIS  | 1.3 LAGED Laboratory/ 2.AEEE Laboratory/4. Guelma university<br><a href="mailto:adel.daikh@univ-constantine3.dz">adel.daikh@univ-constantine3.dz</a>  |
| 07                                     | 15:10 | 15:20 | <b>Latifa BOULAHIA 1<br/>Ahmed ALLIOUCHE 2<br/>Haïthem BERGUELLAH 3</b>                          | MACHINE LEARNING APPROACH FOR SOIL EROSION MODELING BASED ON RUSLE IN SKIKDA WILAYA, NORTHEAST ALGERIA  | 1LAGED Laboratory<br>2CRAT center<br>3LAGED Laboratory  |
| 08                                     | 15:20 | 15:30 | <b>Badreddine SAADALI 1,2<br/>Derradji El Fadel 3<br/>Nabil MANCHAR 1<br/>Benslama Marwa 1,2</b> | ASSESSMENT OF GROUNDWATER QUALITY AND NITRATE HEALTH RISKS IN A SEMI-ARID REGION (AIN BEIDA, NE ALGERIA)  | 1Department of Geology, Oum El Bouaghi University Algeria.<br>2 Natural Resources and Management of Sensitive Environments Laboratory, Oum El Bouaghi University, Algeri<br>3 Department of Geology, Annaba University, Algeria<br><a href="mailto:badreddine.saadali@univ-ueb.dz">badreddine.saadali@univ-ueb.dz</a> |
| <b>DEBATE</b>                          |       |       |  |   |   |
| <b>COFFEE BREAK AND SESSION POSTER</b> |       |       |  |   |   |

**AXIS 5 : DEVELOPMENT OF RENEWABLE ENERGIES (OR ENERGY TRANSITION)**

**Moderator: Dr Ismail DABANLI,**  
**Reporter : Dr Yasser BENZAGOUTA**  
 Localisation: Ahcen BENMICI room

| N° | Timing |       | Authors  | Titles  | Affiliation   |
|----|--------|-------|--|---|---|
| 01 | 14:00  | 14:10 | <b>Leila BENSMAIN 1,</b><br><b>Noureddine YASSAA 2,</b><br><b>Meryem SABER 3</b>                       | DES DECHETS VERS L'ENERGIE  | Houari Boumediene university (USTHB),<br>STAT department/ faculty of chemistry.<br>(USTHB)/ 3 Center for the development<br>of renewable energies, Algiers, Algeria<br><a href="mailto:lbensmain@yahoo.fr">lbensmain@yahoo.fr</a>   |
| 02 | 14:10  | 14:20 | <b>Islam BOUKHELKHAL 1,</b><br><b>Rafik BOUDJADJA 2,</b><br><b>Imene BENSID 3</b>                      | VALORISATION DU PATRIMOINE<br>ARCHITECTURAL A TRAVERS LA<br>MODELISATION DES STRATEGIES<br>BIOCLIMATIQUES TRADITIONNELLES<br>DANS LE SUD ALGERIEN | 1 Département d'architecture, UC 3<br>University, Algérie. /2 Département<br>d'architecture, Université Larbi Ben<br>Mhidi, Oum El Bouaghi, Algérie. 3<br>IGTU, UC 3 University, Algérie.<br><a href="mailto:islam.boukhelkhal@univ-constantine3.dz">islam.boukhelkhal@univ-constantine3.dz</a> |
| 03 | 14:20  | 14:30 | <b>Aicha BENAZZOZ 1</b><br><b>Narjes BENANI 2</b>  | THE ROLE OF THE PRIVATE SECTOR IN<br>THE ENERGY TRANSITION IN<br>ALGERIA: MANAGEMENT OF<br>LANDFILL CENTERS AND BIOGAS<br>RECOVERY FROM WASTE     | LAGED laboratory, IGTU, UC 3<br>University, Algeria<br><a href="mailto:aicha.benazzouz@univ-constantine3.dz">aicha.benazzouz@univ-constantine3.dz</a>   |
| 04 | 14:30  | 14:40 | <b>Sara SAHNOUNE 1,</b><br><b>Sarah BENSARKAT 1,</b><br><b>Ahmed Mohamed Salah</b><br><b>CHERIEF 2</b> | SEASONAL VARIATIONS IN THE<br>CORRELATIONS BETWEEN LAND<br>SURFACE TEMPERATURE AND<br>VEGETATION COVER IN<br>CONSTANTINE, ALGERIA                 | ABE Laboratory/ IGTU, 2UC3<br>University, , Algeria<br><a href="mailto:sara.sahnoune@univ-constantine3.dz">sara.sahnoune@univ-constantine3.dz</a>   |
| 05 | 14:40  | 14:50 | <b>Sarah BENSARKAT 1</b><br><b>Rabeh Borhane Eddine</b><br><b>BENAISSA 2</b>                           | ASSESSMENT OF THE ENERGY<br>POTENTIAL OF AGRICULTURAL<br>BIOMASS IN ALGERIA   | ABE Laboratory/LAGED Laboratory,<br>UC3, Constantine<br><a href="mailto:sarah.bensarkat@univ-constantine3.dz">sarah.bensarkat@univ-constantine3.dz</a>  |

|    |       |       |  |  |   |
|----|-------|-------|--|--|---|
| 06 | 14:50 | 15:00 | <b>Karima YOUNICI 1,<br/>Anissa KHELLADI 2,<br/>Nacera MAHFOUD 3</b> | HUBBERTS PEAK AND PLANETARY LIMITS: CHALLENGES FOR A SUSTAINABLE DEVELOPMENT MODEL | <b>Online</b><br>Université Abderrahmane Mira de Bejaia.<br>younici<br><a href="mailto:anissa.khelladi@univ-bejaia.dz">anissa.khelladi@univ-bejaia.dz</a><br><a href="mailto:karima.younici@univ-bejaia.dz">karima.younici@univ-bejaia.dz</a> |
|----|-------|-------|--|--|---|

**DEBATE**

**COFFEE BREAK AND SESSION POSTER**

**AXIS 6. URBAN HEAT ISLANDS: PROSPECTS, CHALLENGES AND POTENTIAL**

Moderator: Dr Aicha DJEGHAR

Reporter : Dr Soumia MOSBAH

Library room

[meet.google.com/mmy-nmvc-pir](https://meet.google.com/mmy-nmvc-pir)

| N° | Timing        | Authors   | Titles  | Affiliation   |
|----|---------------|---|---|---|
| 01 | 14:00 - 14:10 | <b>Fouzia BOUCHERIBA</b>  | RAPPORT ENTRE L'ÎLOT DE CHALEUR URBAIN ET LA GEOMETRIE URBAINE<br>CONSTAT, INVESTIGATIONS ET RESULTATS  | ABE Laboratory, Constantine 3 university<br><a href="mailto:fouzia.boucheriba@univ-constantine3.dz">fouzia.boucheriba@univ-constantine3.dz</a>  |
| 02 | 14:20         | <b>Samira LOUAFI 1<br/>Anouar Khallil BELMILI 2</b>                       | ASSESSMENT OF THE INFLUENCE OF VARIOUS GREEN SPACE CONFIGURATIONS ON THE URBAN HEAT ISLAND AND URBAN CLIMATE IN A SEMI-ARID REGION: THE CASE OF AIN SMARA (ALGERIA) | ABE Laboratory/Department of Urban Technology and Environment, Constantine 3 university<br><a href="mailto:samira.louafi@univ-constantine3.dz">samira.louafi@univ-constantine3.dz</a>   |
| 03 | 14:20 - 14:30 | <b>SOUALAH Amira 1<br/>SOUALAH Louiza 2<br/>BOUSSOUF Mouatez Billah 3</b> | THE SPATIAL CIRCULARITY INDEX: A DECISION-SUPPORT TOOL FOR THE REDEVELOPMENT OF UNDERUSED URBAN AREAS WITHIN A CIRCULAR ECONOMY FRAMEWORK                           | 1 Faculty of Architecture and Urbanism, AVMF Laboratory. University of Constantine 3,<br>2 LAGED Laboratory.<br>3 Faculty of Architecture and Urbanism, AVMF Laboratory. University of Constantine 3,<br><a href="mailto:Amira.soualah@univ-constantine3.dz">Amira.soualah@univ-constantine3.dz</a> |

|    |       |       |   |   |  |
|----|-------|-------|---|---|--|
| 04 | 14:30 | 14:40 | Lamia MANSOURI <sup>1</sup> ,<br>Radia BOUARROUDJ <sup>2</sup> ,<br>Kenza BOUARROUDJ <sup>3</sup> | ÎLOTS DE CHALEUR URBAINS EN CLIMAT SEMI-ARIDE : CADRE THEORIQUE ET STRATEGIES D'ATTENUATION – CAS D'ETUDE CONCEPTUEL DE CONSTANTINE | <sup>1</sup> Alger 1 University, Department of Architecture/ UC3 University, Faculty of Architecture and Urban Planning of Architecture / <sup>3</sup> University, Abdel Hamid Mehri Constantine 2<br><a href="mailto:radia.bouarroudj@univ-constantine3.dz">radia.bouarroudj@univ-constantine3.dz</a> |
| 05 | 14:40 | 14:50 | Darda BENCHEIKH<br>Lina CHAOUI  | PARKLETS AS URBAN COOL SPOTS: A TACTICAL URBANISM INTERVENTION TO MITIGATE URBAN HEAT ISLANDS.                                      | <b>Online</b><br>Department of Architecture, University of Amar Telidji Laghouat/ETAP laboratory, Architecture and urbanism institute, University of Saad Dahleb, Blida,Algeria.<br><a href="mailto:d.bencheikh@lagh-univ.dz">d.bencheikh@lagh-univ.dz</a>   |
| 06 | 14:50 | 15:00 | Taous KADDOUR 1,<br>Nassima CHAHER-BAZIZI 1,<br>Samir ZEGGANE 2 ,<br>Achour CHERGUI 3,            | VALORIZATION OF SARDINE DIGESTIVE PROTEASES FOR SUSTAINABLE AQUACULTURE IN ALGERIA  | <b>Online</b><br>1, 2 SNVI, University of /<br>3 University of Bouira/<br>4 Mouloud Mammeri University, Tizi-Ouzou<br><a href="mailto:taous.kad4@gmail.com">taous.kad4@gmail.com</a>   |

**DEBATE**

**COFFEE BREAK AND SESSION POSTER**

**ORAL SESSION ONLINE**

Link: <https://meet.google.com/csf-ewbg-nhx>

President: Dr Nabil CHARCHAR

Reporter : Dr Rayene LAMRI

video conference room

**AXIS 3: HYDROLOGY, HYDROGEOLOGY AND WATER. CURRENT RESOURCE ISSUES AND CHALLENGES**

| N° | Timing | Authors | Titles | Affiliation |
|----|--------|---------|--------|-------------|
|----|--------|---------|--------|-------------|



|    |       |       |  |  |   |
|----|-------|-------|--|--|---|
| 01 | 14:00 | 14:10 | Souad MOUASSA 1<br>Souad BENKEROURA 2<br>Mansour ZAAGANE 2   | ÉVALUATION DE LA POLLUTION ORGANIQUE, MICROBIOLOGIQUE, DEGRE D'EUTROPHISATION ET RISQUE SANITAIRE DES EAUX DU BARRAGE DE CHEURFAS II (NORD – OUEST ALGERIEN) | Université de Mascara, Algerie, Laboratoire de Géomatique, Ecologie et Environnement<br><a href="mailto:souad.mouassa75@gmail.com">souad.mouassa75@gmail.com</a>  |
| 02 | 14:10 | 14:20 | Souad BENKEROURA 1<br>Souad MOUASSA 2<br>Sabria BEKOUSA 3  | EVALUATION OF POLLUTION DEGREE BY NEMEROW INDEX AND HEALTH RISK FOR NITRATES AND PHOSPHATES IN CHEURFFAS II DAM WATERS.                                      | Université de Mascara, Algerie, Laboratoire de Géomatique, Ecologie et Environnement<br><a href="mailto:benkerouras@gmail.com">benkerouras@gmail.com</a> .  |
| 03 | 14:20 | 14:30 | Fatiha DILMI 1<br>Djamila MESSEKINE 1<br>Chentouf Khadidja 1<br>Khadidja SENOUCI-REZKALLAH 2<br>souad MOUASSA 1<br>Bengarnia BENMERINE 1 | APPLICATION OF THE CANADIAN INDEX AND THE WATER QUALITY INDEX TO ASSESS THE WATER QUALITY OF THE BAKHADDA DAM (WESTERN ALGERIA).                             | University of, Mascara, Faculty of Natural and Life Sciences, Geomatics, Ecology and Environment Laboratory.<br>2. Département de sciences naturelles<br>Université de Quebec en Outaouais.<br>E-mail : <a href="mailto:fatiha_dilmi@yahoo.com">fatiha_dilmi@yahoo.com</a>            |
| 04 | 14:30 | 14:40 | Manal DJEMA,<br>Abdelmadjid DROUCHE  | MAPPING THE SENSITIVITY OF GROUNDWATER IN THE NADOR PLAIN TO NITRATE POLLUTION USING AN AHP-GIS APPROACH   | Mouloud Mammeri university of Tizi Ouzou.<br><a href="mailto:manal.djema.hydro@gmail.com">manal.djema.hydro@gmail.com</a>   |
| 05 | 14:40 | 14:50 | Zohra ABDELKRIM 1  | HYDROLOGICAL MODELING OF THE KÉBIR-RHUMEL BASIN USING GEOGRAPHIC INFORMATION SYSTEMS (GIS)   | IGTU, University of M'sila<br><a href="mailto:zohra.abdelkrim@univ-msila.dz">zohra.abdelkrim@univ-msila.dz</a>  |
| 06 | 14:50 | 15:00 | Yousra MANADI 1,<br>Ali BELMEZITI 1,<br>Bernard DE GOUVELLO 2  | MANAGING INTERMITTENT WATER SUPPLY: HOUSEHOLD COPING STRATEGIES AND CO-PRODUCTION OF DRINKING WATER  | 1Laboratory O.V.A.M.U.S, University of Blida, Algeria/ 2Center for Studies and Expertise on Risks, Environment, Mobility, and Planning (Cerema), Territorial Directorate for Île-de-France, Trappes, France<br><a href="mailto:yousra20161997@gmail.com">yousra20161997@gmail.com</a> |

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|---|-------|--|---|---|--|
| 07  | 15H00 | 15H10                                  | Zahra FERHI 1<br>Abdelmalek BEKKOUCHE 2                                     | TOWARDS SUSTAINABLE AND INTEGRATED WATER RESOURCES MANAGEMENT IN ALGERIA: CHALLENGES, OPPORTUNITIES AND FUTURE PATHWAYS | Abou Bekr Belkaid University, Tlemcen, Algeria.<br><a href="mailto:zahraafer@gmail.com">zahraafer@gmail.com</a>                  |
| 15H10   | 15H20 | <b>DEBATE</b>                          |   |   |  |
| 15H20   | 15H40 | <b>COFFEE BREAK AND SESSION POSTER</b> |   |   |  |
| <b>ORAL SESSION ONLINE</b><br><b>AXIS 4. DATA ACQUISITION, ARTIFICIAL INTELLIGENCE, REMOTE SENSING, ENVIRONMENTAL MONITORING AND GEOSPATIAL ANALYSIS</b><br>Moderators: Dr Nabil CHARCHAR<br>Reporter 1: Dr Sonia MAKHLOUFI<br>video conference room<br><a href="https://meet.google.com/csf-ewbg-nhx">https://meet.google.com/csf-ewbg-nhx</a> |       |  |   |   |  |
| 01  | 15H40 | 15h50                                  | Amina MAZIGHI,<br>Mohamed MEDDI <sup>1</sup> ,<br>Hind MEDDI <sup>1</sup> . | ADVANCING INFILTRATION MODELING IN THE MITIDJA PLAIN: A COMPARATIVE STUDY OF TRANSFORMER-BASED, ANN, AND ELM MODELS     | <sup>1</sup> Higher National School of Hydraulics of Blida, Algeria<br><a href="mailto:a.mazighi@ensh.dz">a.mazighi@ensh.dz</a>  |
| 02  | 15h50 | 16h00                                  | Fatiha NADIR 1<br>Ali BELMEZITI 1   | GIS AS AN ESSENTIAL TOOL FOR INTELLIGENT AND SUSTAINABLEMANAGEMENT OF URBAN WATER                                       | Laboratory O.V.A.M.U.S, University of Blida, Algeria<br><a href="mailto:nadirfatiha1990@gmail.com">nadirfatiha1990@gmail.com</a> |
| 03  | 16h00 | 16h15                                  | Hayet BOUZAR-YAGOUNI 1,<br>Rabah ALLEM<br>Si Hamoud Samy BELKADI            | WHEN URBANIZATION THREATENS AGRICULTURAL LAND IN THE MITIDJA PLAIN  | Houari Boumediene university (USTHB) STAT department.<br><a href="mailto:bouzarhayet@gmail.com">bouzarhayet@gmail.com</a>        |

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|----|-------|-------|---|---|---|
| 04 | 16h10 | 16h20 | <b>Imene SENADI 1*,<br/>Ayoub ZEROUAL 1,<br/>Hind MEDDI 1</b> | PREDICTING LAND USE AND LAND COVER CHANGES IN THE MITIDJA PLAIN USING MACHINE LEARNING TECHNIQUES AND SENTINEL-2 IMAGERY. | 1Higher National School for Hydraulics, Water and Environmental Engineering Laboratory (GEE), Blida Algeria<br><a href="mailto:i.senadi@ensh.dz">i.senadi@ensh.dz</a> |
| 05 | 16h20 | 16h40 | <b>Serine BELHANI</b>   | AI and Remote Sensing for Port Flood and Sea-Level Rise Risk Assessment   | LAGED Laboratory, UC3/ University of Paris 8<br><a href="mailto:Serinebelhani2@gmail.com">Serinebelhani2@gmail.com</a>  |
| 06 | 16h40 | 16h50 | <b>Hanane BOUTAGHANE 1<br/>Chourouk BOUTTABA</b>              | URBAN EXPANSION AND ITS IMPACT ON URBAN LAND USE THE CASE OF BORDJ BOUARRÉRIDJ, ALGERIA                                   | IGTU, University of M'sila<br><a href="mailto:hananeboutaghane71@gmail.com">hananeboutaghane71@gmail.com</a>  |

**ORAL SESSION ONLINE**  
**AXIS 5 : DEVELOPMENT OF RENEWABLE ENERGIES (OR ENERGY TRANSITION)**

|    |       |       |   |  |  |
|----|-------|-------|---|--|--|
| 07 | 16h50 | 17h00 | <b>Younes SAHLI 1,<br/>Leila BOUCHAMA 2,<br/>Ouahiba BOUCHAMA 3</b> | MODELING URBAN ENERGY TRANSITION: A SPATIAL AND SCENARIO-BASED APPROACH FOR HYDRA, ALGIERS | 1 ZIANE ACHOUR University of Djelfa<br>2 Université USTHB- Alger<br>3 ENS Bouzareah .Alger<br><a href="mailto:l.bouchama@yahoo.fr">l.bouchama@yahoo.fr</a> |
|----|-------|-------|---|--|--|

**DEBATE**



**Session 2 (POSTER ONLINE)**  
**Link: <https://meet.google.com/ehc-terv-gie>**  
**Moderator: Dr Aicha BENAOUZ**  
**Reporter : Mme Hanane HAZMOUN**  
**Multi Media room**

|    |       |       |  |   |   |
|----|-------|-------|--|---|---|
| 01 | 14:00 | 14:10 | <b>Jihène KHALIFA</b>  | ANALYZING THE ASYMMETRIC EFFECT OF RENEWABLE ENERGY CONSUMPTION ON ENVIRONMENTAL QUALITY IN TUNISIA : A NARDL APPROACH  | Faculty of Economics and Management of Sousse, University of Sousse, Tunisia.<br><a href="mailto:jihenekhalifa.jk@gmail.com">jihenekhalifa.jk@gmail.com</a>   |
| 02 | 14:10 | 14:20 | <b>Zohra EL FARES</b>  | MAPPING AND ANALYSIS OF SOIL SALINITY IN NORTHERN ALGERIA USING REMOTE SENSING: AN INNOVATIVE APPROACH WITH SENTINEL-2 IMAGERY  | Department of Rural Hydraulics, National Higher School of Agronomy, EL HARRACH, Algiers<br><a href="mailto:zahraelfares94@gmail.com">zahraelfares94@gmail.com</a>   |
| 03 | 14:20 | 14:30 | <b>Khadidja SENOUCI 1,<br/>Fatih DILMI 2,<br/>Amira CHENTOUF 3.</b>          | BIOLOGICAL TREATMENT OF WASTEWATER AND THE PRODUCTION OF HYDROGEN, BIOGAS, AND GREEN ELECTRICITY IN WASTEWATER TREATMENT  | 1UQO- Gatineau- Quebec- Canada./ 2 University of Mostaganem/ 3University of Mascara, Algeria<br><a href="mailto:khadidja.senouci@icloud.com">khadidja.senouci@icloud.com</a>  |
| 04 | 14:30 | 14:40 | <b>Abderrahmane MEBARKI 1<br/>Tayeb SITAYEB 2,<br/>Yahia DJELLOULI 3</b>     | ASSESSING THE IMPACT OF CLIMATE CHANGE ON DESERTIFICATION IN THE NAÀMA REGION (2010–2023): A GIS AND REMOTE SENSING APPROACH  | <i>Faculty of Natural Science and Life, University of Saida</i><br><a href="mailto:fadi0161@gmail.com">fadi0161@gmail.com</a>   |
| 05 | 14:50 | 15:00 | <b>Yahia DJELLOULI 1,<br/>Abdelkrimr KEFIFA 2<br/>Abderrahmane MEBARKI 3</b> | UTILISATION DES SCRIPTS DE GOOGLE EARTH ENGINE POUR LA CREATION D'UNE CARTE DE SENSIBILITE A L'EROSION DE LA CHENAIE VERTE D'EL HASASSNA, DANS LE CADRE D'UN PROGRAMME DE PLANIFICATION DE LA RESTAURATION. | <i>Faculty of Natural Science and Life, University of Saida</i><br><a href="mailto:djelloulyahia00@gmail.com">djelloulyahia00@gmail.com</a>   |
| 06 | 15:00 | 15:10 | <b>Sabrina BENDOUMA 1* ,<br/>Mahmoud ZAIDI 2</b>                             | IMPACT OF THE MANUFACTURING OF BUILDING MATERIALS ON CLIMATE CHANGE AND GLOBAL WARMING ACCORDING TO ISO 14040-44 STANDARDS.   | 1* Badji Mokhtar University, earth sciences faculty, mining engineering department.<br>2 Applied Hydraulics and Environment Research Laboratory, University of Bejaia, Algeria.<br><a href="mailto:sabrinabenmining@gmail.com">sabrinabenmining@gmail.com</a> |

|                     |       |       |  |  |   |
|---------------------|-------|-------|--|--|---|
| 07                  | 15:10 | 15:20 | <b>Asmaa BEMMOUSSAT 1<br/>Amina BELLATRECHE 2<br/>Adel BEREZZOUG 3<br/>Yacine MAHDAD 4</b> | SALINITY AND ITS EFFECTS ON WHEAT UNDER CLIMATE CHANGE: ENVIRONMENTAL AND GENETIC PERSPECTIVES | (SNV), Tlemcen University, Laboratory of Functional Agrosystems and Technology of Agronomic Sectors (AFTAGRO), Algeria.<br><a href="mailto:bemmoussatassouma1997@gmail.com">bemmoussatassouma1997@gmail.com</a> |
| 08                  | 15:20 | 15:30 | <b>Chaimaa KHADIR 1,<br/>Yasmine HALFAOUI 2<br/>mohamed mahmoud ELGHADY<br/>AMAR 2</b>     | EFFECTS OF CLIMATE CHANGE ON ECOSYSTEMS AND NATURAL HAZARDS IN THE SAÏDA REGION                | Faculty of Sciences, University of Saïda/ Laboratory of Water Resources and Environment (RHE),<br><a href="mailto:chaimaakhadir1998@gmail.com">chaimaakhadir1998@gmail.com</a>                                  |
|                     | 15:30 | 15:40 | <b>Rayene DJABOURABI et al.</b>  | SUSTAINABLE STRATEGIES FOR PROTECTING CHERRY ORCHARDS FROM SPRING WEATHER EXTREMES             | Faculty of Natural and Life Sciences, Mohamed Cherif Messaadia University – Souk Ahras, Algeria<br><a href="mailto:ra.djabourabi@univ-soukahras.dz">ra.djabourabi@univ-soukahras.dz</a>                         |
| <b>DEBATE</b>       |       |       |  |  |   |
| <b>COFFEE BREAK</b> |       |       |  |  |   |



Tuesday 14<sup>th</sup> October 2025

| Timing |        |  |
|--------|--------|--|
|        |        | <b>ROUND TABLE</b><br>Feedback/ Crossed perspectives<br>Moderator: Prof Saifi MERDAS (CRAT)<br>Rapporteurs: Mohamed BOUAOUD<br>Location: Multimedia room   |
| 09: 00 | 11:00  | <b>Guests: Prof Farès KESSASRA</b> (University of Jijel), <b>Prof Sonia Dridi &amp; Hatem -DHAOUADI</b> (University of Monastir- IPEIM ), <b>Dr. Ismail DABANLI</b> (Istanbul Technical University, Turkey), <b>Dr Hicham CHENAKER</b> ( National Federation Of The Environment And School Of Forests Of Khenchela), <b>Mrs. BELKADI</b> (AGIRE Constantine), <b>Mrs. GRINE</b> house of the environment, - Socio-economic sector, representatives of associations - Representative of the University – Speakers, students, etc. |
| 11:00  | 11: 30 | <b>COFFEE BREAK</b>  |
| 11: 30 | 12: 00 | Summary and closing of the conference<br>Dr. Latifa BOULAHIA, President of the seminar   |
| 12: 00 | 13:00  | <b>LUNCH</b>   |
|        |        | <b>Visit of Constantine</b>  |





## POSTERS session on October 13

**Moderators : Dr. Dounia KEDDARI, Dr. Ahmed ALLIOUCHE**

**Reporters: Dr Med Ikbal FARAH, D Chaima TOUABA, Dr Sara KEBLOUTI (CRAT Team)**

| AXE 1<br>EXTREME EVENTS AND CLIMATE CHANGE, IMPACTS AND ACTIONS | N° | Nom & prénoms  | Titles   | Affiliations   | E-mail   |
|---|----|--|--|--|--|
|   | 01 | Moussa DJERFAFA 1<br>Yasser AZIZI 1  | LES CHANGEMENTS CLIMATIQUES<br>OBSERVES EN ALGERIE : ETUDE DES<br>VARIATIONS TEMPERATURES  | 1 Laboratory of Materials<br>Interaction and Environment<br>(LIME), Faculty of Exact Sciences<br>and Computer Science, University<br>of Jijel,           | <a href="mailto:djerafamousa23@gmail.com">djerafamousa23@gmail.com</a>     |
|   | 02 | Ahmed KHELOUFI ATTOU 1<br>Kamila BABA-HAMED 1<br>Abderrazak BOUANANI 1   | RELATIONSHIPS BETWEEN REGIONAL<br>ATMOSPHERIC CIRCULATION AND<br>EXTREME RAINFALL IN NORTHERN<br>ALGERIA   | Laboratory Promotion of Water,<br>Mineral and Soil Resources.<br>Environmental Legislation and<br>Technological Choices, Tlemcen<br>University , Algeria | <a href="mailto:ahmedgeoran2014@gmail.com">ahmedgeoran2014@gmail.com</a>   |
|   | 03 | Hocine BOUGRINE 1 ,<br>Salah HADJOUT 1 ,<br>Mohamed ZOUIDI 1 ,<br>Abdeldjalil BELKENDIL 1 ,<br>Amar MEBARKIA 2                           | CARACTERISATION<br>MORPHOLOGIQUE ET<br>AGRONOMIQUE DE QUELQUES<br>ACCESSIONS SPONTANEEES DE LA<br>VESCE COMMUNE COLLECTEES A<br>PARTIR DE LA PROVINCE DE SETIF ET<br>SES REGIONS LIMITROPHES | Centre for Research in Spatial<br>Planning (CRAT)  | <a href="mailto:bougrinehocine77@gmail.com">bougrinehocine77@gmail.com</a> |
|   | 04 | Manel YAKHLEFOUNE <sup>1</sup> ,<br>Chaouki BENABBAS <sup>1</sup> ,<br>Florina GRECU <sup>2</sup> ,<br>Abdeljalil BELKENDIL <sup>1</sup> | IMPACT DES EVENEMENTS EXTREMES<br>ET DU CHANGEMENT CLIMATIQUE<br>SUR LE RISQUE D'INONDATION A<br>CONSTANTINE   | Centre for Research in Spatial<br>Planning (CRAT)  | <a href="mailto:manel.yakhlefoune@crat.dz">manel.yakhlefoune@crat.dz</a>   |
|   | 05 | Nabil CHARCHAR   | BIOTECHNOLOGY'S ROLE IN CLIMATE<br>CRISIS COMBAT   | CRBT Constantine   | <a href="mailto:n.charchar@crbt.dz">n.charchar@crbt.dz</a>                 |



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| <b>AXE 2</b><br><b>IMPACT OF CLIMATE CHANGE ON THE ENVIRONMENT</b> |    | <b>Hani BOUYAHMED</b>  | REHABILITATION DES SITES ET DES SOLS PAR PHYTOREMEDIATION   | CRBT Constantine  | <a href="mailto:h.bouyahmed@crbt.dz">h.bouyahmed@crbt.dz</a> ,<br><a href="mailto:hanibouyahmed@gmail.com">hanibouyahmed@gmail.com</a> |
|  | 07 | <b>Mohamed ZOUIDI1, Salah HADJOUT1, Hocine BOUGRINE1, Abdeldjalil BELKENDIL1, Dounia KEDDARI1, Chaima TOUABA1</b>  | IMPACT OF CLIMATE CHANGE AND DROUGHT ON LAND PRODUCTIVITY IN WESTERN ALGERIA: CURRENT STATUS AND SUSTAINABLE MANAGEMENT PERSPECTIVES                    | Centre for Research in Spatial Planning (CRAT)  | <a href="mailto:mohamed.zouidi@crat.dz">mohamed.zouidi@crat.dz</a>   |
|  | 08 | <b>Chaima TOUABA 1, Mohamed ZOUIDI 2, Mohamed Ikba FARAH 3</b>   | IMPACT DE CHANGEMENT CLIMATIQUE SUR LA DIVERSITE DES ESPACES VERTS URBAIN – CAS VILLE DE CONSTANTINE  | Centre for Research in Spatial Planning (CRAT)  | <a href="mailto:chaima.touaba@crat.dz">chaima.touaba@crat.dz</a>   |
|  | 09 | <b>Abdelkrim ARAR<sup>1,2,3</sup>, Amel Dhikra MEGHERBI<sup>1</sup>, Dounia BENDJOUJJA<sup>1</sup>, Amani KHLOUFI<sup>1</sup>, Aya BENBRAHIM<sup>1</sup></b> | MODELLING APPROACH TO ASSESS THE STATE AND DYNAMICS OF NORTH ALGERIAN BIODIVERSITY UNDER ENVIRONMENTAL FORCING: A CASE STUDY OF QUERCUS ILEx            | 1Department of Ecology and Environment, Faculty SNV Batna University 2<br>2Laboratory “Biodiversity, Biotechnology and Sustainable Development”, Faculty of Nature and Life Sciences, University Mostefa Benboulaïd Batna 2, Batna, Algeria<br><sup>3</sup> Laboratory of Functional Ecology and Environment, University of Oum El Bouaghi. | <a href="mailto:a.arar@univ-batna2.dz">a.arar@univ-batna2.dz</a>   |
|  | 10 | <b>Abdelkader DILMI 1, Abdelfateh.BENMAKHLOUF 1</b>  | EVALUATION OF THE FLOCCULATING EFFICIENCY OF MORINGA OLEIFERA AS A BIOFLOCCULANT FOR REDUCING WASTEWATER TURBIDITY                                      | Université Mohamed El Bachir El Ibrahimi Bordj Bou Arréridj, Algérie.   | <a href="mailto:abdelkader.dilmi@univ-bba.dz">abdelkader.dilmi@univ-bba.dz</a>   |
|  | 11 | <b>Dounia KEDDARI et al.</b>   | ADVANCED ENSEMBLE LEARNING FOR HIGH-PRECISION WATER QUALITY MONITORING IN WADI SAF-SAF RIVER BASIN: A VOTING-BASED FRAMEWORK FOR INTELLIGENT PREDICTION | 1 (CRAT), Constantine, Algérie/   | <a href="mailto:dounia.keddari@gmail.com">dounia.keddari@gmail.com</a>   |

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|  | 12 | <b>Salah Eddine MALLEM 1</b><br><b>Saliha ABBAS 2</b><br><b>Aissam GAAGAI 3</b>             | THE DECLINE OF FOGGARAS IN THE SAHARA: CASE STUDY OF THE ADRAR REGION (SOUTHWESTERN ALGERIA)                        | 1, 2, 3 Scientific and Technical Research Center on Arid Regions (C.R.S.T.R.A.) - Biskra, Algeria                              | <a href="mailto:salaheddine.ma.7@gmail.com">salaheddine.ma.7@gmail.com</a>                         |
|  | 13 | <b>Nahla BENSALHIA,</b><br><b>Abdel Ali BEN CHENNA</b>                                      | "ENVIRONMENTAL VULNERABILITY ASSOCIATED WITH THE ESTABLISHMENT OF INDUSTRIAL FACILITIES ON AGRICULTURAL LAND"       | LAGED Laboratory, University of Jijel  | <a href="mailto:nahla.bensalbia@univ-constantine3.dz">nahla.bensalbia@univ-constantine3.dz</a>     |
|  |    | MOHAMED BOUAOUD <sup>1</sup> ,<br>SAMI MEZHOUD <sup>2</sup>                                 | ENVIRONMENTAL IMPACT OF LANDSLIDE VULNERABILITY AT THE URBAN SCALE: CASE OF CONSTANTINE, ALGERIA.                   | (1) University Constantine 1 Frères Mentouri,<br>(2) University Constantine 1 Frères   | <a href="mailto:mohamed.bouaoud@univ-constantine3.dz">mohamed.bouaoud@univ-constantine3.dz</a> ,   |
| HYDROLOGY, HYDROGEOLOGY AND WATER. CURRENT RESOURCE ISSUES AND | 15 | <b>Roumaissa TADJINE 1</b><br><b>Azzedine GHACHI 2</b>                                      | IDENTIFICATION TEMPORELLE DES DEFICITS EN EAU : CAS DE LA REGION DE GUELMA  | IGTU, UC 3 University, Algeria   | <a href="mailto:roumaissa.tadjine@univ-constantine3.dz">roumaissa.tadjine@univ-constantine3.dz</a> |
|  | 16 | <b>Riad KOUADRA</b>   | THE PHYSICO-CHEMICAL PROPERTIES OF WATER RESOURCES IN THE OUED DJENDJEN WATERSHED (W. JIJEL)                        | Department of Earth Sciences, University Center of Mila, Algeria   | <a href="mailto:kouadra.r@centre-univ-mila.dz">kouadra.r@centre-univ-mila.dz</a>                   |
|  | 17 | <b>Nour EL Houda TOUBI 1</b><br><b>Nour el Houda MEZERREG 2</b><br><b>Selwa BOUBGUIRA 3</b> | PHYSICO-CHEMICAL QUALITY ASSESSMENT AND POLLUTION OF GROUNDWATER IN SEBKHA EL MAHMEL, KHENCHELA (NORTHEAST ALGERIA) | FSTGAT, Department of Geological Sciences, University of Constantine 1<br>3 ISTU, Department of Geology, University of Batna 2 | <a href="mailto:nourelhouda.toubi@mc.edu.dz">nourelhouda.toubi@mc.edu.dz</a>                       |

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| AXE<br>DATA ACQUISITION,<br>GEOSPATIAL | 18 | <b>Ali LAKROUT1</b><br><b>Boumediene MEDDAH2</b><br><b>Salah Eddine ALI RAHMANI3</b>   | HYDROCHEMICAL STUDY AND<br>WATER QUALITY OF THE THERMAL<br>SPRINGS OF BOUHANIFIA (MASCARA,<br>WESTERN ALGERIA)   | 1.2Laboratory of Research on<br>Biological Systems and Geomatics,<br>University of Mascara, Mascara,<br>Algeria<br>3Geo-environment Laboratory<br>FSTGAT, USTHB, Bo 32 ,El Alia<br>,16111 ,Bab Ezzouar, Algiers,Algeria   | <a href="mailto:alilakrout8@gmail.com">alilakrout8@gmail.com</a>           |
|  | 19 | <b>BENAOUDIA Lydia 1</b><br><b>BARGAOUI Zoubeida2</b><br><b>BEJAOUI Amel2</b><br><b>AMMARI Abdelhadil</b><br><b>MEDDI Mohamed1</b> | SOIL WATER BALANCE MONITORING<br>USING A MODIFIED VERSION<br><br>OF THE BBH-MODEL  | 1Environnement and water<br>engineering laboratory (GEE) ,<br>National Higher School for<br>Hydraulics Blida , Algeria<br>2Hydrological and environmental<br>modeling laboratory, National<br>School of Engineers, Univ. Tunis El<br>Manar,                             | <a href="mailto:l.benaoudia@ensh.dz">l.benaoudia@ensh.dz</a>               |
|  | 20 | <b>Hichem CHENAKER 1,</b><br><b>Maroua CHENAKER 2,</b><br><b>Abdenour SEDRATI 3</b>  | SPATIAL VARIABILITY OF WATER<br>QUALITY AND HYDROCHEMICAL<br>CHARACTERISTICS UNDER CLIMATE<br>CHANGE: A NORTH–SOUTH<br>TRANSECT OF KHENCHELA<br>PROVINCE (NORTHEASTERN<br>ALGERIA) | 1 Laboratory of Algerian Forest and<br>Climate Change, Higher National<br>School of Forests.<br>2 Laboratory de Biology,<br>Environment and health, University<br>El Oued.<br>3 Laboratory of Water, environment<br>and renewable energies, University<br>of Khenchela. | <a href="mailto:chenaker.hichem@ensf.dz">chenaker.hichem@ensf.dz</a>       |
|  | 21 | <b>Saliha ABBAS1,</b><br><b>Salah Eddine MALLEM1</b>   | FLOOD SUSCEPTIBILITY MAPPING<br>(A CASE STUDY OF BISKRA PROVINCE)  | 1Scientific and Technical Research<br>Center for Arid Regions (CRSTRA).<br>Biskra   | <a href="mailto:sa.abbas@univ-batna2.dz">sa.abbas@univ-batna2.dz</a>       |
|  | 22 | <b>Fouzia BOUDJEMLINE</b>  | SUIVI DE LA DEGRADATION<br>ENVIRONNEMENTALE DES<br>ECOSYSTEMES STEPPIQUES: ÉTUDE<br>DE CAS DE LA WILAYA DE DJELFA A<br>PARTIR DES DONNEES LANDSAT 8                                | École normale supérieure de Sétif,<br>Algérie.  | <a href="mailto:f.boudjemline@ens-setif.dz">f.boudjemline@ens-setif.dz</a> |

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|   | 23 | <b>Abdelfateh BENMAKHOUF<sup>1</sup>,<br/>Houseme eddine KARCE<sup>1</sup>,<br/>Abdelkader DILMI<sup>1</sup></b> | USING DESIGN OF EXPERIMENTS (DOE) METHOD TO ENHANCE THE ADSORPTION OF CONGO RED ONTO ACTIVATED CARBON   | Faculty of Science and Technology, Mohamed El-Bachir El-Ibrahimi University – Bordj Bou Arreidj                                    | <a href="mailto:abdelfateh.benmakhlouf@univ-bba.dz">abdelfateh.benmakhlouf@univ-bba.dz</a>             |
|   | 24 | <b>Imane SOUCI<sup>1</sup>,<br/>Adjie ABDERRAZAK<sup>1, 2</sup></b>  | GREEN ROOFS: A SUSTAINABLE SOLUTION FOR STORMWATER MANAGEMENT AND URBAN ADAPTATION TO CLIMATE CHANGE (EL MERRIDJ – CONSTANTINE – ALGERIA)     | 1 LAGED Laboratory)<br>2 Department of GTU, Institute of Urban and Environmental Techniques, University of Constantine 3, Algeria. | <a href="mailto:imene.souici@univ-constantine3.dz">imene.souici@univ-constantine3.dz</a>               |
| AXE 5<br>DEVELOPMENT OF RENEWABLE ENERGIES (OR ENERGY TRANSITION) | 25 | <b>Mohamed Elamine ABDESSELEM<sup>1</sup><br/>Mohamed Salah MECIBAH<sup>1</sup></b>                              | TRANSITION TO GREEN HYDROGEN: EXPLORING HYDROGEN PRODUCTION USING SOLAR ENERGY WITHIN RENEWABLE ENERGY STRATEGIES FOR SUSTAINABLE DEVELOPMENT | 1Laboratory of Mechanics, Mechanical Engineering Department, University of Constantine 1, Algeria                                  | <a href="mailto:mohamedelamine.abdesselem@doc.umc.edu.dz">mohamedelamine.abdesselem@doc.umc.edu.dz</a> |
|   | 26 | <b>Ouarda MANSOURI<sup>1</sup>,<br/>Habiba TEBBANI<sup>2</sup></b>   | PASSIVE STRATEGIES TO COUNTER THE URBAN HEAT ISLAND   | 1, 2 ABE laboratory, Constantine3 University.  | <a href="mailto:ouarda.mansouri@univ-skikda.dz">ouarda.mansouri@univ-skikda.dz</a>                     |
|   | 27 | <b>Afef OUIS<sup>1</sup>,<br/>Sara SAHNOUNE<sup>2</sup>,<br/>Nassira BENHASSINE<sup>3</sup></b>                  | INFLUENCE OF THE URBAN MORPHOLOGY ON THE URBAN HEAT ISLANDS: MICROCLIMATIC ANALYSIS OF THE PUBLIC SQUARES OF CONSTANTINE                      | Laboratoire ABE, Constantine 3 University, Algeria   | <a href="mailto:afef.ouis@univ-constantine3.dz">afef.ouis@univ-constantine3.dz</a>                     |
|   | 28 | <b>Filali Fatima Zohra<sup>1</sup>,<br/>Soualah Louiza<sup>2</sup>,<br/>Chafi Fatima Zohra<sup>3</sup></b>       | L'AUDIT ENERGETIQUE AU SERVICE DE LA TRANSITION ENERGETIQUE : CAS DE L'UNIVERSITE SALAH BOUBNIDER CONSTANTINE 3                               | LAGED Laboratory/ University of Constantine 3.   | <a href="mailto:fatima.filali@univ-constantine3.dz">fatima.filali@univ-constantine3.dz</a>             |
|   | 29 | <b>Zineddine OMAROUAYACHE<sup>1</sup><br/>Aissa BOULKAIBET<sup>2</sup></b>                                       | THE DYNAMICS OF THE URBAN HEAT ISLAND IN MILA CITY IN RESPONSE TO LAND USE CHANGES DURING THE PERIOD 2004–2024.                               | IGTU, Oum el bouaghi. University, Algeria  | <a href="mailto:zineddineomar97@gmail.com">zineddineomar97@gmail.com</a>                               |