



People's Democratic Republic of Algeria
Ministry of Higher Education and Scientific Research
University of Constantine 1

Vice Rectorate of External Relations



THE SECOND INTERNATIONAL SEMINAR ON WATER, CLIMATE CHANGE, AGRICULTURE, AND TERRITORIAL DEVELOPMENT

CONSTANTINE FROM NOVEMBER 3 TO 6, 2025



ON THE OCCASION OF :

THE 11TH ALGERIAN-ROMANIAN INTERNATIONAL SCIENTIFIC DAYS

HONORARY PRESIDENTS:

PROF. AHMED BOURAS

RECTOR OF UNIVERSITY OF CONSTANTINE 1,
FRÈRES MENTOURI (UC1)

PROF. CHAOUKI BENABBAS

DIRECTOR OF THE TERRITORY PLANNING
RESEARCH CENTER (CRAT)

PRESIDENT OF THE SEMINAR:

DR. AZIZ BENHAMROUCHE

Publication Opportunity

Participants will have the possibility to submit their work for publication in peer-reviewed journals, including:



Earth (Switzerland) MDPI

Impact Factor 2.1 • Cite Score 3.3 • **DGRSDT Class B-Scopus**



Journal of the Geographical Institute "Jovan Cvijić" SASA

• Web of Science (Clarivate) • Scopus (Elsevier) • **DGRSDT Class B-Scopus**



Geographica Pannonica

• Web of Science (Clarivate) • Scopus (Elsevier) • **DGRSDT Class B-Scopus**



This seminar supports the
United Nations Sustainable Development Goals

The University of Constantine 1, Frères Mentouri (UC1) in collaboration with the Territory Planning Research Center (CRAT) and various partners of the PRIMA project (BENEFIT-Med), with support from several institutional stakeholders, is organizing on the occasion of : the 11th Algerian-Romanian International Scientific Days, the 2nd International Seminar on "Water, Climate Change, Agriculture, and Territorial Development." This four-day event will take place from November 3 to 6, 2025, at the university of Constantine 1, Frères Mentouri (UC1), Algeria.

The seminar aims to bring together experts, researchers, policymakers, and development actors to exchange knowledge and share best practices. **The focus will be on sustainable water management, climate change adaptation, agricultural resilience, and territorial development, with the overarching objective of fostering integrated strategies that support sustainable regional development in areas affected by climate change.**

The program includes 20 plenary sessions covering a broad spectrum of issues in geography, agronomy, and territorial planning, approached through a modern, interdisciplinary perspective. Organized by the Vice-Rectorate for External Relations (UC1) and CRAT. The event benefits from the collaboration of international academic institutions from over 35 countries. Participants will include scholars and professionals from Algeria, Italy, Spain, France, Portugal, Colombia, Malta, Cuba, Greece, Tunisia, Serbia, Bulgaria, and more.

Contact : aziz.benhamrouche@umc.edu.dz | +213 671 828 925

PARTNERS



PRIMA
PARTNERSHIP FOR RESEARCH AND INNOVATION
IN THE MEDITERRANEAN AREA



Benefit MED



BENAKI
PHYTOPATHOLOGICAL
INSTITUTE



Université de Sfax
TUNISIE



YUNIBERSITET Y PRIRODNYKH
NAUCHNYKH ISSLEDOVANIY



Universitat
de Girona



Universidad
de Ibagué



INSTITU
TO EDUAR
DO TOR
ROJA



CSIC



UNIVERSITY OF
BUCHAREST



UNIVERSITY OF
DEBRECEN



UNIVERSITÀ
DI PAVIA



montanhas
de investigação
laboratório colaborativo



UNIVERSITATEA DE
MEDICINĂ ȘI FARMACIE



SOFIA UNIVERSITY
ST. KLIMENT OHRIDSKI



Universidade do Minho



UDG



INRAE

Themes

This international seminar brings together leading researchers and experts to address key challenges at the crossroads of water management, climate change, sustainable agriculture, and territorial development. Structured around six major themes, the event encourages interdisciplinary exchange and integrative approaches. From climate risks and resource scarcity to innovative solutions and local resilience, the seminar aims to foster scientific collaboration and actionable knowledge for sustainable development.

1-Water Scarcity and Climate Risks

Droughts, hydrological extremes, and water resource management.

2-Climate Resilience and Adaptation

Ecosystem responses, risk reduction, and adaptive strategies.

3-Food Security and Climate-Smart Agriculture

Resilient crops, soil health, agrobiodiversity, and nutrition.

4-Nature-Based Solutions and Land Restoration

Land degradation, desertification, and sustainable land use.

5-Innovation and Technologies for Climate Action

GIS, remote sensing, energy mapping, and smart monitoring tools.

6-Territorial Development and Local Knowledge

Cultural heritage, endogenous resources, and place-based resilience.

Key Speakers

► Heritage as a lever for territorial development. Case of the heritage resources of the city of Constantine.

Prof. Badia SAHRAOUI. University Constantine 1, Frères Mentouri, Algeria

► Meteorological risks in the context of climate change. The DANA of Valencia.

Prof. Javier MARTIN-VIDE. University of Barcelona, Spain

► Fostering the transition towards sustainable agriculture in climate-vulnerable regions: the 'Benefit-Med' model.

Prof. Alma BALESTRAZZI. University of Pavia, Italy

► Viruses in municipal wastewaters.

Prof. Joan JOFRE. University of Barcelona, Spain

► Minor legumes in Med region: drought tolerant crops and ecosystem services.

Prof. Demos CHACHALIS. Benaki Phytopathological Institute. Greece

► Planting Innovation, Harvesting MORE Sustainability: New Solutions for the Conservation and Valorization of Endogenous Resources.

Dr. Susana ARAÚJO (MORE) - Laboratório Colaborativo Montanhas de Investigação - Associação, Portugal

► Climate Change and Its Impact on Agriculture and Forestry.

Prof. Safwan MOHAMMED. University of Debrecen, Hungary

► Short-term grazing exclusion as a nature-based solution to mitigate land degradation in arid steppe ecosystems.

Prof. Saifi MERDAS. Territory Planning Research Center, Constantine, Algeria

► Nature Based Solutions to mitigate drought and land degradation in agriculture.

Prof. Claudia MEISINA. University of Pavia, Italy

► Land degradation as indicator of climate crisis.

Prof. Jose DAMIÁN RUIZ-SINOGA. University of Malaga, Spain

► Fenugreek: A Promising Legume for Soil Health and Quality.

Prof. Amine ELLEUCH. University of Sfax, Tunisia

► From Meteorological to Hydrological Drought: Climatic Variability and Regional Patterns in Bulgaria.

Dr. Nina NIKOLOVA. Sofia University, Bulgaria.

► Seed quality for sustainable agriculture in a changing climate.

Prof. Anca MACOVEI. University of Pavia, Italy

► Aridity in Serbia: An Underestimated Environmental Issue.

Prof. Nikola M. MILENTIJEVIĆ. University of Priština - Kosovska Mitrovica. Serbia.

► Environmental Perceptions and Management Strategies in the Face of Extreme Climate Events: Pathways to Sustainability in a Changing Climate".

Dr. Hélder Silva LOPES. University of Minho, Portugal.

► Natural spaces and climate change.

Prof. Josep Vila SUBIROS. University of Girona, Spain.

► Characterization of solar and wind energy potential in areas of Granma province in Cuba.

Prof. Ramiro Alberto CUMBRERA GONZÁLEZ. University of Granma, Cuba.

► Thermo-Optical Mapping of Urban Coating Materials: a GIS Based Surface Renovation Tool for Passive Cooling of Cities.

Dr. Fernando MARTÍN-CONSUEGRA. Eduardo Torroja Institute of Construction Sciences - CSIC. Spain.

► Image Processing Techniques for Agricultural Applications: From RGB to Multispectral and Hyperspectral Imagery.

Dr. Jose A FERNANDEZ-GALLEGO. University of Ibagué. Colombia.

► Reevaluating the Quality of Animal-Sourced Foods: Towards the integration of climate change and beyond.

Dr. Mohammed GAGAOUA. French National Institute for Agriculture, Food, and Environment (INRAE), Rennes, France.

Scientific Committee

Prof. Badia SAHRAOUI

Prof. Chaouki BENABBAS
 Prof. Amira Leila DIB
 Prof. Abderrazak MERABET
 Prof. Karima BENMOHAMED
 Prof. Javier MARTIN VIDE
 Prof. Alma BALESTRAZZI
 Prof. Florina GRECU
 Dr. Mohamed LOUCIF SEIAD
 Prof. Alexander. B. POLONSKII
 Prof. José DAMIAN RUIZ SINOGA
 Prof. Ali RDJEM
 Dr. Hamza MERABET
 Prof. Joan JOFRE
 Dr. Jose A FERNANDEZ-GALLEGO
 Prof. Anicet R. BLANCH
 Dr. Parveen SIHAG
 Dr. Alejandro DEL POZO LIRA
 Dr. Lorenzo MARCHI
 Dr. Aziz BENHAMROUCHE
 Prof. V-Ramon VALLEJO CALZADA
 Prof. Anna Maria Ribas PALOM
 Prof. Loïc RAJJOU.
 Dr. Mohand BERSI
 Prof. José LUIS ARAUS
 Dr. Salah Eddine TACHI
 Prof. Josep Vila SUBIROS
 Prof. Eleni TANI.
 Dr. Oussama DERDOUS
 Prof. Cristina GARCIA ALJARO
 Prof. Quoc BAO PHAM
 Dr. Belgacem ZAAROURI
 Prof. Moustafa BANI
 Dr. Benwei SHI
 Dr. Issam TOUHAMI
 Dr. Paula PRATOLONGO
 Dr. Nikola M. MILENTIJEVIĆ
 Prof. Amine ELLEUCH
 Dr. Susana ARAÚJO
 Dr. Edson FIALHO
 Dr. Bassem KHEMAKHEM
 Dr. Hulya ILBI
 Dr. Zouhir BOULGUERAGUER
 Prof. Abu Reza Md. TOWFIQUL ISLAM
 Dr. Abdelhafid BOUZEKRI
 Dr. Elsa H QUEZADA-RODRÍGUEZ
 Dr. Tarek B. JDEIDI
 Prof. Ramiro CUMBRERA
 Prof. Juan Antonio MARCO MOLINA
 Dr. Rabah ZENNIR
 Dr. Beatriz SIQUEIRA
 Dr. Mohammed SAFWAN
 Dr. Mihaela VERGA
 Prof. Craig REFUGIO
 Dr. Benjamin MWADI MAKENGO
 Dr. Nina NIKOLOVA
 Dr. Saad SHAUKET
 Prof. Rabah KECHICHED
 Dr. Peter NOJAROV
 Dr. Nabilt MOGGIANO
 Prof. Fidas G. ARIAS-ODÓN
 Dr. Osuji EMEKA EMMANUEL
 Dr. Wafa SAIGHI
 Dr. Abdelaziz LOUAMRI
 Dr. Helder Silva LOPES
 Prof. Saifi MERDAS
 Dr. Anca MACOVEI
 Prof. Tewfik MOUSTFAOUI
 Dr. Fouzia BOUDJEMLINE
 Prof. Claudia MEISINA
 Dr. Fernando MARTIN-CONSUEGRA
 Dr. Belkacem BITAT
 Dr. Andreea Denis ANDRA-TOPARCEANU
 Dr. Florina CHITEA
 Prof. Lahcene HADJ HAFSI

University Constantine 1, Frères Mentouri, Algeria | President of the Scientific Committee

Territory Planning Research Center, Constantine, Algeria
 University Constantine 1, Frères Mentouri, Algeria
 University Constantine 1, Frères Mentouri, Algeria
 University Constantine 1, Frères Mentouri, Algeria
 University of Barcelona, Spain
 University of Pavia, Italy
 University of Bucharest, Romania
 The Directorate-General for Scientific Research and Technological Development (DGRSDT), Algeria
 Scientific Chief of Sevastopol State University, Russia.
 University of Malaga, Spain
 M'sila University, Algeria
 Renewable Energy Development Center, Algeria
 University of Barcelona, Spain
 University of Ibagué, Colombia
 University of Barcelona, Spain
 Chandigarh University, Mohali, Punjab, India
 University of Talca, Chile
 Research Institute for Hydrogeological Protection (IRPI), Padova, Italy
 Mentouri Brothers University Constantine 1, Algeria
 University of Barcelona, Spain
 University of Girona, Spain
 University Paris-Saclay, INRAE, AgroParisTech, France
 Houari Boumediene University of Science and Technology - USTHB, Algeria
 University of Barcelona, Spain
 Badji Mokhtar Annaba University, Algeria
 University of Girona, Spain
 Assistant Professor, Agricultural University of Athens, Greece
 Mentouri Brothers University Constantine 1, Algeria
 University of Barcelona, Spain
 Institute of Applied Technology, Thu Dau Mot University, Vietnam
 Biotechnology Research Center C.R.Bt, Constantine, Algeria
 National School of Biotechnology, Constantine Algeria
 East China Normal University, China
 National Institute of Research in Rural Engineering, Water and Forestry, Tunisia
 Researcher at National Scientific and Technical Research Council, Argentina.
 University of Priština in Kosovska Mitrovica, Serbia.
 University of Sfax, Tunisia
 Laboratório Colaborativo Montanhas de Investigação - Associação (MORE), Portugal.
 Professor (Associate) at Federal University of Viçosa (UFV) Viçosa, Brazil
 University of Sfax, Tunisia
 Ege University, Turkey
 Ferhat Abbas University, Sétif 1, Algeria
 Professor (Associate) at Begum Rokeya University, Rangpur, Bangladesh
 National School of Forestry, Khenchela-Algeria
 Metropolitan Autonomous University Mexico, Mexico
 University of Tripoli, Libya
 University of Granma, Cuba.
 University of Alicante, Spain
 Badji Mokhtar Annaba University, Algeria
 University of Campinas, Brazil
 University of Debrecen, Hungary
 University of Bucharest, Romania
 Negros Oriental State University Dumaguete, Philippines
 University of Kinshasa, Democratic Republic of the Congo
 Sofia University "St. Kliment Ohridski", Bulgaria.
 University of Diyala, Baqubah, Iraq
 Kasdi Merbah Ouargla University, Algeria
 National Institute of Geophysics, Geodesy and Geography, Academy of Sciences, Bulgaria
 Continental University of Sciences and Engineering, Huancayo, Peru.
 Andrés Bello Catholic University, UCAB, Venezuela
 Alex-Ekwueme Federal University Ndufu-Alike Ebonyi State, Nigeria
 University of Constantine 3, Salah Boubendir, Algeria.
 University Constantine 1, Frères Mentouri, Algeria
 University of Minho, Portugal
 Territory Planning Research Center, Constantine, Algeria (CRAT), Algeria
 University of Pavia, Italy
 Center for Scientific and Technical Research on Arid Regions (CRSTRA), Algeria
 Higher Normal School of Education of El Eulma (Messaoud Zougar), Algeria
 University of Pavia, Italy.
 Eduardo Torroja Institute of Construction Sciences - CSIC. Spain
 University Constantine 1, Frères Mentouri, Algeria
 University of Bucharest, Romania
 University of Bucharest + Institute of Geodynamics of the Romanian Academy, Romania
 M'sila University, Algeria

Dr. Mohamed ZOUIDI	Territory Planning Research Center, Constantine, Algeria (CRAT), Algeria
Prof. Gad M. EL-QADY	National Research Institute of Astronomy & Geophysics (NRIAG), Helwan, Cairo, Egypt
Dr. Mohammed GAGAOUA.	French National Institute for Agriculture, Food, and Environment (INRAE), Rennes, France.
Prof. JORGE OLCINA CANTOS	University of Alicante, Spain.
Prof. Dmitry KUCHER	Institute of Environmental Engineering, RUDN University, Moscow, Russia;
Dr. Nazih Y. REBOUH	Institute of Environmental Engineering, RUDN University, Moscow, Russia
Prof. Khaldoun SHATANAWI	University of Jordan
Dr. Fouad BOUAICHA	University Constantine 1, Frères Mentouri, Algeria
Dr. Shifa MATHBOUT	Center of Excellence in Risk & Decision Sciences (CERIDES). European University, Nicosia, Cyprus.
Prof. Antonis BATSOS	Epsilon International Ltd (Hellenic Brach, Malta
Prof. Daoud HARZALLAH	University of Setif 1, Ferhat Abbas, Algeria
Prof. Kamel BAZRI	University Constantine 1, Frères Mentouri, Algeria
Prof. Demos CHACHALIS	Benaki Phytopathological Institute. Greece
Prof. Aristotelis C. TAGARAKIS	Centre for Research and Technology Hellas, Institute for Bio-economy and Agri-technology (iBO), Greece.
Dr. David HIDALGO GARCIA	University of Malaga, Spain.
Prof. Lila SAHLI	University Constantine 1, Frères Mentouri, Algeria
Prof. Salim HEDDAM	University 20 Août 1955 SKIKDA, Algeria
Dr. Noureddine HALLA	University of Saida, Algeria
Dr. Amar LAKHDAR	University Constantine 1, Frères Mentouri, Algeria

Organizing Committee

Prof. Amira Leila DIB | Vice-Rectorate of External Relations | University Constantine 1, Frères Mentouri, Algeria | **President of the Organizing Committee**
Dr. Oussama DERDOUS | University Constantine 1, Frères Mentouri, Algeria | **Co-President of the Organizing Committee**

Dr. Hadia BAKIRI	Larbi Ben M'hidi University Oum El Bouaghi, Algeria.
Dr. Aziz BENHAMROUCHE	University Constantine 1, Frères Mentouri, Algeria
Dr. El Hadj BOUZIANI	University Constantine 1, Frères Mentouri, Algeria
Dr. Imane HARKAT	Territory Planning Research Center, Constantine, Algeria (CRAT), Algeria
Dr. Mohnd BERSI	Houari Boumediene University of Science and Technology - USTHB, Algeria
Dr. Souhila KERDOUD	University Constantine 1, Frères Mentouri, Algeria
Mrs. Zakia GOUACHI	University Constantine 1, Frères Mentouri, Algeria
Dr. Esma BAKIRI	University Constantine 1, Frères Mentouri, Algeria
Dr. Meriem ALLIOUA	Territory Planning Research Center, Constantine, Algeria (CRAT), Algeria
Dr. Saadi ISKOUNEN	University Constantine 1, Frères Mentouri, Algeria
Dr. Abdeldjalil BELKENDIL	Territory Planning Research Center, Constantine, Algeria (CRAT), Algeria
Mr. Mostafa KOUACHI ELHACHEMI	University Constantine 1, Frères Mentouri, Algeria+University of Alicante, Spain
Dr. Esma BOUHADJAR	Territory Planning Research Center, Constantine, Algeria (CRAT), Algeria
Mrs. Norhen KERAGHEL	University Constantine 1, Frères Mentouri, Algeria+University of Barcelona, Spain
Mr. Amine ACHOURI	University Constantine 1, Frères Mentouri, Algeria+ University of Girona, Spain
Mr. Ahmed BOUGUERRA	University Constantine 1, Frères Mentouri, Algeria+University of Barcelona, Spain
Dr. Rania BOUDJELLAL	Universit de Tebessa, Algeria

Submissions and dates

Please, remember the following important dates:

Abstract Submission Deadline: **September 25th, 2025**

Notification of Acceptance/Rejection: **October 15th, 2025**

Conference Dates: **November 3rd- 6th, 2025.**

Abstracts must be submitted using the registration form : <https://forms.gle/KERY2DVMY56DxgUk6>

Registration fees

Authors (Student): **5000 DA / 50€**

Authors (Regular): **10 000 DA / 100€**

Listener (Societies): **12000 DA / 120€**

All event participants must pay the conference registration fee the day of the seminar. For each paper/poster, at least one author must attend and pay the registration fee.

The registration fees include

- Admission to scientific sessions
- Admission to exhibition and poster viewing
- All-Conference materials
- Tea/coffee and lunch
- Certificate of Attendance
- Shuttle bus