

People's Democratic Republic of Algeria Ministry of Higher Education and Scientific Research Ferhat Abbas University Setif 1

Institute of Architecture and Earth Sciences

IN THE FRAMEWORK OF THE PRIMA BENEFIT-MED PROJECT

SEMINAR ON WATER, CLIMATE CHANGE, AGRICULTURE, AND

TERRITORIAL DEVELOPMENT

SETIF OCTOBER 1ST TO 4TH, 2023

PRESIDENT OF THE SEMINAR: DR. BENHAMROUCHE AZIZ









The PRIMA project (BENEFIT-Med), together with the Ferhat Abbas University of Sétif 1, Algeria and with the support of the General Directorate for Scientific Research and Technological Development (DGRSTDT), organizes the International Seminar "Water, Climate Change, Agriculture and Territorial Development". With an execution period of three years, the project aims to develop an innovative technology for the production of sustainable crops, based on functional and highly resilient legume accessions and 'on-farm' biopriming of seeds with bacterial inoculants to considerably improve seed vigor and seedling yield, even in the presence of adverse climate conditions.

The International Seminar consists of 16 sessions on different topics of geography and agronomy with a modern approach, organized by the Institute of Architecture and Earth Sciences of the Ferhat Abbas University of Sétif 1, in collaboration with several foreign universities in more than 30 countries and with the participation of several researchers of different nationalities; Algerian, Italian, German, Chilean, Colombian, Spanish, Vietnamese, Senegalese etc.

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Preamble

Water, agriculture, and climate change are inextricably linked, and they play a crucial role in shaping the development of territories. Water availability and quality are essential for agricultural productivity and food security, and they also affect the livelihoods and well-being of rural communities. At the same time, climate change is causing more frequent and severe droughts, floods, and other extreme weather events that disrupt agricultural systems and exacerbate water scarcity.

In this seminar, we'll explore the complex and interrelated issues of water, climate change, agriculture, and territorial development, and discuss potential solutions and innovations. We'll hear from experts in various fields, share knowledge and experiences, and engage in constructive dialogue.

We hope that this seminar will not only increase our understanding of the challenges we face but also inspire us to take action and collaborate towards a sustainable future for agriculture, water resources, and territorial development.

Themes

Theme 1 | Sanitation and water reuse: microbiological aspects.

Pr. Joan JOFRE (University of Barcelona, Spain).

Theme 2 | The climatic emergence in the Western Mediterranean.

Pr. Javier MARTIN-VIDE (University of Barcelona, Spain).

Theme 3 How is Climate Change expected to alter the Climate across the Greater Mediterranean Region? Pr. Patrick LAUX (Karlsruhe Institute of Technology Institute of Meteorology and Climate Research (KIT) Germany).

Theme 4 | Land use/Land Cover in a context of climate change: Soil health as an adaptation lever against abiotic stress Dr. Yacine LOUADJ (Ferhat Abbas University, Sétif 1, Algeria)

Theme 5 | Seed priming in the era of climate change.

Prof. Alma BALESTRAZZI (University of Pavia, Italy).

Theme 6 | Active Tectonics and Erosion: Impacts on Territory planning.

Pr. Chaouki BENABBAS (Territorial Planning Research Center, Constantine, Algeria).

Theme 7 | Flood vulnerability and buildings' flood exposure assessment in a densely urbanized city.

Dr. Quoc BAO PHAM (Institute of Applied Technology, Thu Dau Mot University, Binh Duong province, Vietnam) On-line

Theme 8 | Image processing techniques for agriculture applications using machine and deep learning tools.

Dr. Jose A FERNANDEZ-GALLEGO (University of Ibaqué. Colombia). On-line

Theme 9 | Land degradation as an indicator of Global Change.

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

Theme 10 | Prediction of potential malaria mosquito breeding habits: performance of high resolution hydrometeorological and dynamical malaria transmission modelling.

Dr. Mame Diarra BOUSSO DIENG. (Karlsruhe Institute of Technology Institute of Meteorology and Climate Research (KIT) Germany).

 $\textbf{Theme 11} \ | \ \mathsf{Flash} \ \mathsf{floods} \ \mathsf{in} \ \mathsf{the} \ \mathsf{Euro-Mediterranean} \ \mathsf{region:} \ \mathsf{assessment} \ \mathsf{and} \ \mathsf{risk} \ \mathsf{mitigation} \ \mathsf{strategies}.$

Dr. Lorenzo MARCHI (IRPI - Research Institute for Hydrogeological Protection, Padova, Italy)

Theme 12 | The challenges of Climate Change in Mediterranean agriculture and the measures to address them. Pr. José LUIS ARAUS (University of Barcelona, Spain).

Theme 13 | Climate change and large forest fires are related?

Pr. Manuel JAIME BAEZA (University of Alicante, Spain)

Theme 14 | Land use changes in central Chile in a context of climate change: impacts on agriculture and forest lands **Prof. Alejandro DEL POZO LIRA** (University of Talca, Chile) On-line

Theme 15 || Addressing the maintenance of key forest ecosystem services and building environmental awareness through ecological restoration in a fire-prone landscape (North-eastern Spain).

Dr. Beatriz DUGUY PEDRA (University of Barcelona, Spain)

Theme 16 | Land Planning, social changes and drought vulnerability in Mediterranean Chile.

Dr. Anahi Melgar OCAMPO (University of Chile) On-line





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Submissions and dates

Please, remember the following important dates:

Abstract Submission Deadline: August 15th, 2023

Notification of Acceptance/Rejection: September 5th, 2023

Conference Dates: October 1st-4th, 2023.

Abstracts must be submitted using the fregistration form: https://forms.gle/LFDvVwcxrZZs4KFo7 For your inquiries, please feel free to contact the organizers on: waccad2023@gmail.com

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