

**NOVEMBER 24<sup>th</sup>, 2022**  
**Rome (Italy)**  
**CBLN venue**  
**Focene Fiumicino**



Canale  
Emiliano  
Romagnolo



## International Workshop

### ORGANIZED BY

Università per Stranieri di Perugia (WARREDOC)  
 Associazione Nazionale Bonifiche e Irrigazioni Lazio (ANBI Lazio)  
 Consorzio per il Canale Emiliano Romagnolo (CER)  
 Consiglio per la Ricerca in Agricoltura e l'analisi dell'Economia Agraria (CREA)  
 Fondazione Earth and Water Agenda (Fondazione EWA)  
 One World One Water Center (OWOW) (Metropolitan State Univ. of Denver & Denver Botanic Gardens)

### WITH THE SUPPORT AND PARTICIPATION OF

Consorzio di Bonifica Litorale Nord (CBLN)  
 Associazione Nazionale Bonifiche e Irrigazioni (ANBI)  
 Maccarese SpA  
 GRIDDIT WARREDOC Spinoff  
 Denver Botanic Gardens  
 Agenzia Italiana per la Cooperazione allo Sviluppo (AICS)  
 Unione delle Università del Mediterraneo (UNIMED)  
 Fondazione Eni Enrico Mattei (FEEM)  
 GEOSmartcampus Srl

### COORDINATING COMMITTEE

Fernando Nardi (WARREDOC)  
 Raffaella Zucaro (CER)  
 Veronica Manganiello e Myriam Ruberto (CREA-PB)  
 Andrea Renna (ANBI Lazio)  
 Jennifer Riley-Chetwynd (MSU Denver, Denver Botanic Gardens)  
 Filippo Maria Soccodato (Fondazione EWA)

### LOCAL ORGANIZING COMMITTEE

Simonetta Farinelli, Antonio Annis, Andrea Spasiano, Margarita Fursova, Maryloni Mayor Pillaca (WARREDOC & GRIDDIT)  
 Patrizia Narducci (CER)  
 Jackeline Canevello, Sofia Galeotti e Silvia Baralla (CREA-PB)  
 Fabiola Dessy (ANBI Lazio)  
 Nona Shipman (MSU Denver)

November 24<sup>th</sup>, 2022  
 "Water Extremes: Building Sustainable and Resilient Communities  
 A comparative look at Colorado and Italy"  
 CBLN Fiumicino Venue - Rome (Italy)  
 Viale delle Idrovore di Fiumicino n. 304 – Focene Fiumicino

## International Workshop

# WATER EXTREMES: BUILDING SUSTAINABLE AND RESILIENT COMMUNITIES A COMPARATIVE LOOK AT COLORADO AND ITALY



Viale delle Idrovore di Fiumicino n. 304 - Focene Fiumicino - Metropolitan city of Rome (Italy)

### WITH THE SUPPORT AND PARTICIPATION OF



November 24<sup>th</sup>, 2022  
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The workshop *“Water Extremes: Building Sustainable and Resilient Communities. A comparative look at Colorado and Italy”* aims to place local communities at the center of the climate change debate. Local communities are recognized to be custodians of world change and at the same time represent a key asset for increased sustainability and resilience to manage water and climate crises. Starting from a inter-continental debate on shared drought and flood events that impacted at global scale, a delegation from Colorado USA and Italian major water governance actors will discuss on the international outlook and the peculiar regional settings by sharing experiences, problems and possible solutions. The discussion will focus on water extremes and hydrogeological risks impacting such climatically and socially diverse territories in order to benefit from each other's experiences in water management and natural hazard mitigation.

## Background

The world is impacted by unprecedented water extremes while facing abrupt social, economic and climatic change. The green and energy transition is moving society towards a greener, safer and more climate resilient future, but the complex and uncertain international geopolitical framework and social and economic instabilities find local communities not ready yet to address these issues. The diversity and intensity of the various complex dynamics that characterize hydroclimatic extremes are increasingly becoming a threat to our safety and well-being. The key facts derived from recent UN programs and studies by UNESCO, FAO and other international agencies clearly illustrate the criticality of the situation, but at the same time suggest equally clear remedies and solutions. These solutions call on governments for urgent actions to meet human and environmental needs associated with urban planning and risk management, that are increasingly focusing on sustainability and water and land security. Social challenges related to basic needs for water supply, environmental security, and socioeconomic change demands local communities to become a key element in decision-making and implementation of climate change actions. It is crucial that communities are informed, involved, and participate actively to co-plan and co-implement timely actions needed to address social and climate changes.

This international workshop aims to gather and discuss experiences and programs on the water extreme challenges and potential solutions to address the ongoing climate and energy crisis. Global challenges will be discussed by international delegations with a comparative look at the two diverse climatic and geographic settings of the USA and Italy, but facing the same climatic and societal stressors. The discussion and analysis of the different experiences will identify the guiding principles of global solutions and at the same time the criteria for adopting solutions on a local scale. While recognizing the key role of local communities in addressing challenges related to climate extremes, drought and hydrogeological risks in particular, this workshop will value international exchange of policies, strategies, technical guidelines, problems, ongoing actions and best practices. A panel of experts and stakeholders from Italy and Colorado USA will meet to discuss the hydroclimate crises they have faced, and are still facing, with severe droughts followed by intense rainfall and devastating hydrogeological hazards.

The days before the workshop a free 2-days course will be organized for students and professionals who will learn and work together, supervised by a group of expert lecturers, to acquire and process Open Data and Big Data, develop infographics and digital maps on the topics of the workshop, analyzing and mapping sustainable and resilient communities in the changing climate and society. Selected projects from the “Digital Mapping for Sustainable and Resilient Communities Facing Water Extremes” Competition will receive a certificate and a best project award during the lunch break session of the workshop.

## 08:30 Opening of registration for participants and welcome session

The event is moderated by **Stefano Bini**, RAI Author and Presenter

### 09:00 Institutional Welcome Remarks

Massimo Gargano, ANBI  
Sonia Ricci, ANBI Lazio  
Niccolò Sacchetti, CBLN  
Alessandra Pesce, CREA-PB  
Nicola Dalmonte, CER  
Mauro Grassi, EWA  
Jennifer Riley-Chetwynd, OWOW

### 09:30 Presentation of the Workshop

Fernando Nardi, WARREDOC  
Raffaella Zucaro, CER

### 09:45 High-level Panel Debate, "Sustainable Communities Resilient to Droughts and Floods in a Changing Society and Climate: a comparative look at Experiences and Solutions from Colorado and Italy"

#### Experience, problems and solutions from Colorado (USA) presented by the OWOW Center:

Colorado Governor Jared Polis (pre-recorded opening remarks)  
The Colorado River: A short film from American Rivers  
Nona Shipman, MSU Denver OWOW  
Larry Vickerman, Denver Botanic Gardens  
Jim Lochhead, CEO Denver Water (pre-recorded remarks)  
Russ Sands, Colorado Water Conservation Board (pre-recorded remarks)

#### The Italian experience, problems and solutions presented by:

Raffaella Zucaro, CER  
Andrea Renna, ANBI Lazio  
Myriam Ruberto, CREA-PB  
Fernando Nardi, WARREDOC  
Claudio Destro, MACCARESE SpA

#### A global look for international West-East and North-South cooperation programs:

Marcello Scalisi, UNIMED  
Filippo Tessari, FEEM  
Francisco Febronio Peña, ASFPM International Committee & Galt Group Inc

### 11:30 Signing of the agreement CER/ANBI with MSU Denver OWOW and launch of the 2023 #WaterManifesto

### 12:00 Technical visit to CBLN: from historical land/water reclamation systems to date

## 13:00 Lunch break

### 14:00 Including Award Ceremony: Conferring prizes to participants of the course “Digital Mapping for Sustainable and Resilient Communities Facing Water Extremes” Competition

### 15:00 Visit to the farm MACCARESE SpA

## SIDE/ASSOCIATED EVENTS

Perugia, 22<sup>th</sup>-23<sup>th</sup> novembre, 2022

Venue: University for Foreigners of Perugia

Free 2 days course for students and professionals on:

“From Open Data to Digital Maps”

“Digital Mapping for Sustainable and Resilient Communities Facing Water Extremes”

Digital Mapping Course & Competition

Rome, February 13<sup>th</sup>, 2023

“Water Extremes: Building Sustainable and Resilient Communities “ The 2023

#WaterManifesto



Workshop working languages are English and Italian.  
A translator will allow participants to speak their mother tongue