



Extreme environments and climate changes: Satellite-Based Monitoring, Extremophiles, and Their Biotechnological Applications

Research center of Extreme Environments and extremophiles (CUR-AEE)
Messina, 25-26th May 2026, Aula "Vittorio Ricevuto" University of Messina
Via Ferdinando Stagno d'Alcontres, 31 - 98166 Messina

8:30 – 9:00	Scientific and organizing committee	
9:00 – 9:30	Registration	
9:30 – 10:00	Institutional greetings	Prof. Nunziacarla Spanò (CHIBIOFARAM Department Director) Prof. Teresa Maugeri (CUR-AEE President) Prof. Salvatore Magazù (CUR-AEE Director, UniMe, MIFT Department, CISFA President) Prof. Concetta Gugliandolo (CUR-AEE Vice-Director, UniMe, ChiBioFarAm Department)
10:00 – 11:15	Extreme Environments and Extremophiles	
10:00 – 10:25	Invited speaker : Prof. Daniela Billi (Università di Roma Tor Vergata, Italy)	Insights into the habitability of other worlds through laboratory simulations and space experiments on desert cyanobacteria
10:25 – 10:50	Invited speaker: Dr. Maria Papale (CNR-ISP, Italy)	Microbial functional profiles of Canadian snow in a warming climate
10:50 -11:15	Coffee Break	
11:15 – 12:30	Extremophiles and Biotechnological applications	
11:15 – 11:40	Invited speaker : Dr., Elisa Cauli (Q.A. and Technical Product Manager Lallemand, Switzerland)	Life science biotechnological applications of the industrial extremophilic compound Symbiofilm™
11:40 – 12:10	Invited speaker : Prof. Hovik Panosyan (Yerevan State University, Armenia)	Exploring extremophiles of Armenia and their biotechnological applications
12:10 – 12:30	Oral presentation: Dr. Vincenzo Zammuto (Unime)	Biopolymers from marine thermophilic bacilli of Aeolian Islands (Italy) and their potential to counteract soil dehydration
12:30 -13:30	Round table	
13:30 – 14:30	Break/Lunch (Not included)	
14:30 – 15:30	Satellite-Based monitoring application in Extreme Environments	
14:30 – 14:50	Oral presentation: Prof. Salvatore Magazù and Prof. Maria Teresa Caccamo (Unime, Italy)	Parametric resonance climate model
14:50 – 15:10	Oral presentation: Dr. Adila Sturniolo (Unime, Italy)	Extreme events: the wrf-unime modelling approach
15:10 – 15:30	Oral presentation: Dr. Katia Aragona (Unime, Italy)	The emergence of collective phenomena in complex systems
15:30 – 17:00	Poster session	
26 May 9:30-12:30	CISFA Scientific committee meeting and future perspectives for CUR-AEE	
12:30 - 13:00	Conclusions and remarks	

Scientific Committee:

Prof. Concetta Gugliandolo (CUR-AEE Vice-director, UniMe ChiBioFarAm Department)
Dr. Angelina Lo Giudice (CNR-ISP Messina)
Prof. Salvatore Magazù (CUR-AEE Director, UniMe MIFT Department, CISFA President)
Prof. Miguel Martinez (University of Concepción, Chile)
Prof. Teresa Maugeri (CUR-AEE President)
Prof. Serena Savoca (UniMe ChiBioFarAm Department)

Organizing Committee:

Prof. Maria Teresa Caccamo (UniMe MIFT Department, CISFA Member)
Prof. Alessandro Sergi (UniMe MIFT Department)
Prof. Vincenzo Zammuto (UniMe ChiBioFarAm Department)
Dr. Maria Papale (CNR-ISP Messina)

Online link available on the
website: <https://curee.unime.it/it>

