



Management of Disaster Risk and Societal Resilience (MADIS)

21 March 2024 (Thursday)

MADIS Conference

Venue: CMRI Building 38

Cranfield University, College Road, Cranfield, MK43 0AL

About the Conference

The MADIS conference, named after a global research project funded by the Belmont Forum and UKRI-EPSRC, aims to foster a shared understanding of the intricate interdependencies among risk, resilience, and vulnerability concepts and evolution of water-energy-food systems.

Event Schedule

Time	Title and Chair	Speaker
9:00-9:30	Registration and networking tea & coffee	
9:30-10:00	Welcome address	Chris Fogwill, Cranfield University
10:00-10:30	Keynote: "Challenges of energy sector in Türkiye with respect to climate change mitigation targets and sustainable climate-resilient development" <i>Chair: Nazmiye Ozkan, Cranfield University</i>	Murat Turkes, Boğaziçi University
10:30-11:00	Panel discussion <i>Chair: Nazmiye Ozkan, Cranfield University</i>	Murat Turkes, Boğaziçi University Abdullah Konak, Penn State Berks Priscila Carvalho, University College London Paul Burgess, Cranfield University
11:00-11:15	Tea & coffee break	
11:15 to 12:30	Theme 1: Advancing the Sustainable Development Goals: Fostering Resilient Water- Energy-Food Systems in the Face of Shocks <i>Chair: Nazmiye Ozkan, Cranfield University</i>	
11:15-11:30	Developing an enabling environment for risk informed development to build resilience in the water sector: A case study of Lesotho	Johanes Amate Belle, University of the Free State
11:30-11:45	Lebanon 2020: How the explosion impacted the food safety of the Lebanese population? A critical opinion	Carol Verheecke-Vaessen, Cranfield University
11:45-12:00	A critical analysis on disaster housing in Türkiye: Retrospective and prospective perspective	Md Tariqul Islam, Cranfield University
12:00-12:30	Discussion on Theme 1 (Q & A)	
12:30-13:15	Lunch	
13:15-13:45	Indicator based assessment for drought impacted small farms + Learnings from small scale farmers in Morocco <i>Chair: Nazmiye Ozkan, Cranfield University</i>	Tanaya Sarmah, Cranfield University
13:45-14:15	A decision support system to provide holistic policy recommendations for drought risk management <i>Chair: Nazmiye Ozkan, Cranfield University</i>	Abdullah Konak, Penn State Berks
14:15 to 15:15	Theme 2: Tools for Transformation: Social Innovations, Technological Advancements, and Nature- Based Solutions <i>Chair: Abdullah Konak, Penn State Berks & Da Huo, Cranfield University</i>	
14:15-14:30	Integrating machine learning and remote sensing for resilient water-energy-food systems: A multi-scale perspective	Abdou Khouakhi, Cranfield University
14:30-14:45	An early warning system for food supply chain resilience to environmental disruption: Literature review	Kate Jones, Cranfield University
14:45-15:15	Discussion on Theme 2 (Q & A)	
15:15-15:30	Tea & coffee break	
15:30-16:45	Theme 3: Paving the Way for Just Transitions in Disaster Risk Adaptation through Last Mile Governance <i>Chair: Elisabeth Shrimpton, Cranfield University & Priscila Carvalho, University College London</i>	
15:30-15:45	Exploring differentiated nature of livelihood vulnerability in the context of climate change: An intersectional analysis of flood-prone areas in Bangladesh	Md Tariqul Islam, Cranfield University
15:45-16:00	Reducing social vulnerability in assessing grid resilience: Elevating resilience assessment to resilience thinking for ethical energy policy	Johanes Narasetu Widyatanto, Karlsruhe Institute of Technology
16:00-16:15	Evaluating the effectiveness of climate change adaptation strategies by smallholder farmers in Thaba Nchu, Free State Province, South Africa	Johanes Amate Belle, University of the Free State
16:15-16:45	Discussion on Theme 3 (Q & A)	
16:45-17:30	Closing remarks and next steps	Nazmiye Ozkan Cranfield University
18:30-21:00	Conference dinner	Cranfield Management Development Centre (CMDC)