



International Conference on Climate and Weather-related Extremes ICCWE 2022

Organized by

Department of Water Resources Development and Management
Indian Institute of Technology Roorkee

September 19 and 20, 2022

Minute to Minute Programme of the Inaugural Session

Day 1: Sep 19, 2022 Inaugural Session (1000 Hrs-1100 Hrs) Multi Activity Auditorium (MAC), IIT Roorkee		
1000 Hrs-1003 Hrs	Introduction and ushering in of the Dignitaries	
1003Hrs-1006 Hrs	Lightning of the lamp	
1006 Hrs-1010 Hrs	Kulgeet	
1010 Hrs-1014 Hrs	Welcome address & About the Department	Prof. Ashish Pandey Head, Department of WRD&M, IIT Roorkee Chairman of ICCWE-2022
1014 Hrs-1018 Hrs	About conference and arrangements by	Prof. Mohit Prakash Mohanty Department of WRD&M, IIT Roorkee Organizing Secretary of ICCWE-2022
1018 Hrs-1023 Hrs	Address by	Dr. R.P. Singh Director, IIRS Dehradun
1023Hrs-1028 Hrs	Address by	Prof. Durgesh Pant Director General, Uttarakhand State Council for Science and Technology, Dehradun
1028 Hrs-1033 Hrs	Address by	Prof. V.P. Singh Distinguished Professor Texas A and M University, USA
1033 Hrs-1038 Hrs	Address by	Prof. Ajit K. Chaturvedi Director, IIT Roorkee
1038 Hrs-1040 Hrs	Releasing of Abstract Proceedings of the Conference by the Dignitaries	
1040 Hrs-1050 Hrs	Address by	Shri Pradeep Kumar Jena, IAS Special Relief Commissioner & Managing Director, Odisha State Disaster Management Authority
1050 Hrs-1055 Hrs	Presentation of mementos to the dignitaries	
1055 Hrs-1059 Hrs	Vote of Thanks	Prof. Mohit Prakash Mohanty Department of WRD&M, IIT Roorkee Organizing Secretary of ICCWE-2022
1059Hrs-1100 Hrs	National Anthem	
1100 Hrs-1130 Hrs	Tea Break and a short presentation by Terre Armee	

TECHNICAL PROGRAM (Day-1; Sept. 19, 2022)

Plenary Session-I (1130 Hrs-1230 Hrs) Chairs: Prof. Durgesh Pant, DG, UCOST, Dehradun; Prof. Pranab Mohapatra, IIT Gandhinagar Venue: Multi Activity Auditorium (MAC), IIT Roorkee	
1130 Hrs- 1150 Hrs	Shri Pradeep Kumar Jena, IAS, MD, OSDMA <i>Topic: Managing Cyclones- The Odisha Story</i>
1150 Hrs- 1210 Hrs	Shri Rajiv Ranjan Mishra, IAS (Retd.), Professor of Practice, IIT Roorkee and Chief Advisor, National Institute of Urban Affairs, New Delhi <i>Topic: Water Resources Management under changing climate</i>
1210 Hrs- 1230 Hrs	Prof. Mohd. Farooq Azam, Indian Institute of Technology Indore <i>Topic: Himalayan Cryospheric hazards under extreme climate and weather events</i>
Plenary Session-II (1230 Hrs-1330 Hrs) Chairs: Dr. R.P. Singh, Director, IIRS; Dr. Praveen Gupta, ISRO Venue: Multi Activity Auditorium (MAC), IIT Roorkee	
1230 Hrs- 1250 Hrs	Prof. Mukund Dev Behera, IIT Kharagpur <i>Topic: Responses of Indian Forest Ecosystems to Changing Climate</i>
1250 Hrs- 1310 Hrs	Dr. Kalachand Sain, Wadia Institute of Himalayan Geology <i>Topic: Climate Change and associated flash floods in the Himalayas</i>
1310 Hrs – 1330 Hrs	Prof. Praveen Thakur, IIRS <i>Topic: Earth observation system in support of monitoring and modeling of climate and weather extremes</i>
1330 Hrs – 1430 Hrs	Lunch Break
Technical Session-I (1430 Hrs- 1630 Hrs) Venue: WRD&M, IIT Roorkee	
Parallel Session I	Chairs: Prof. S.K. Mishra; Prof. Kritika Kothari
Parallel Session II	Chairs: Prof. C S P Ojha; Prof. Vinnarasi R.
Parallel Session III	Chairs: Dr. Praveen Gupta; Prof. Siddharth Khare
Parallel Session IV	Chairs: Prof. Mukund Dev Behera; Dr. Gyanendra Nath Mohapatra
Parallel Session V	Chairs: Prof. A.K. Lohani; Prof. Ashutosh Sharma
Parallel Session VI	Chairs: Prof. Praveen Thakur; Prof. Basant Yadav
1630 Hrs – 1645 Hrs	Tea Break
Plenary Session-III (1645 Hrs- 1745 Hrs) Chairs: Dr. Sudheer Kumar, Director, NIH Roorkee; Prof. K.S Kasiviswanathan, IIT Roorkee Venue: Multi Activity Auditorium (MAC), IIT Roorkee	
1645 Hrs- 1705 Hrs	Prof. Paul Bates, University of Bristol, UK <i>Topic: A new global hydrodynamic model at sub-100m resolution</i>
1705 Hrs- 1725 Hrs	Prof. Ana Mijic, Imperial College London, UK <i>Topic: How systems approach to water management can help us achieve sustainable development</i>
1725 Hrs- 1745 Hrs	Prof. Indrajit Pal, AIT, Thailand <i>Topic: Climate Change impacts in Lower Mekong Basin and Resilience pathways</i>
Plenary Session-IV (1745 Hrs- 1845 Hrs) Chairs: Prof. Deepak Khare, IIT Roorkee; Mr. C. M. Bhatt, IIRS Venue: Multi Activity Auditorium (MAC), IIT Roorkee	
1745 Hrs – 1805 Hrs	Prof. Venkat Sridhar, Virginia Tech, USA <i>Topic: Understanding of the transboundary river systems impacted by humans: An International perspective in the context of hydrologic extremes</i>
1805 Hrs – 1825 Hrs	Prof. Venkatesh Merwade, Purdue University, USA <i>Topic: Improving streamflow and flood predictions through computational simulations, machine learning, and uncertainty quantification</i>
1825 Hrs – 1845 Hrs	Prof. Ashok Mishra, Clemson University, USA <i>Topic: Recent Advances in Drought concepts and modeling</i>
1930 Hrs onwards	Dinner

TECHNICAL PROGRAM (Day-2; Sept. 20, 2022)

Technical Session-II (0900 Hrs- 1030 Hrs)	
Venue: WRD&M, IIT Roorkee	
Parallel Session I	Chairs: Prof. Deepak Khare; Prof. Thanga Raj Chelliah
Parallel Session II	Chairs: Dr. V.M. Chowdary; Prof. Bhaskar Jyoti Deka
Parallel Session III	Chairs: Prof. R. D. Garg; Prof. Idhaya Chandiran. I
Parallel Session IV	Chairs: Dr. R.P. Pandey, NIH Roorkee; Prof. K.S Kasiviswanathan
Parallel Session V	Chairs: Dr. V. Rakesh; Prof. Saurabh Vijay
1030 Hrs - 1100 Hrs	Tea Break
Plenary Session-V (1100 Hrs- 1200 Hrs)	
Chairs: Prof. C S P Ojha, IIT Roorkee; Dr. P. K Singh, NIH Roorkee	
Venue: Multi Activity Auditorium (MAC), IIT Roorkee	
1100 Hrs- 1120 Hrs	Prof. V. P Singh, Texas A & M, USA <i>Topic: Climate and Weather-Related Extremes: Challenges and Opportunities</i>
1120 Hrs- 1140 Hrs	Dr. Gyanendra Nath Mohapatra, CSIR Fourth Paradigm Institute, Bangalore <i>Topic: Modeling of Extreme Rainfall events over major urban cities of India</i>
1140 Hrs- 1200 Hrs	Brig. Pramod Kumar Singh, VSM, Sr. Consultant, UP SDMA <i>Topic: Climate Change: Manifestation and Challenges</i>
Plenary Session-VI (1200 Hrs-1320 Hrs)	
Chairs: Shri D. P Mathuria, NMCG, New Delhi; Prof. Basant Yadav, IIT Roorkee	
Venue: Multi Activity Auditorium (MAC), IIT Roorkee	
1200 Hrs- 1220 Hrs	Dr. Pratap Singh, Vice President, RMSI Pvt. Ltd. <i>Topic: Recent developments in Flood modeling and forecasting</i>
1220 Hrs- 1240 Hrs	Dr. Praveen Gupta, SAC, ISRO <i>Topic: Flood Prediction using Satellite Observations and Modelling</i>
1240 Hrs- 1300 Hrs	Dr. V. Rakesh, CSIR Fourth Paradigm Institute, Bangalore <i>Topic: Data assimilation in mesoscale models for improved prediction of Weather Extremes</i>
1300 Hrs- 1430 Hrs	Lunch Break
Plenary Session-VII (1430 Hrs- 1600 Hrs)	
Chairs: Prof. Sharad K Jain, IIT Roorkee; Dr. K.K Singh, AD, IMD, New Delhi	
Venue: Multi Activity Auditorium (MAC), IIT Roorkee	
1430 Hrs- 1450 Hrs	Prof. Chandranath Chatterjee <i>Topic: Recent Advances in Mathematical Modeling for Flood Risk Management</i>
1450 Hrs- 1510 Hrs	Prof. Subimal Ghosh, IIT Bombay <i>Topic: Making Agricultural Water Management Climate Smart</i>
1510 Hrs-1530 Hrs	Prof. Subhankar Karmakar, IIT Bombay <i>Topic: Mapping Flood Risk under Changing Climate</i>
1530 Hrs- 1550 Hrs	Prof. Anil K. Gupta, NIDM <i>Topic: Climatic extremes-disaster risks are gigantic-diverse and complex: Isn't pole-vaulting in DRR capacities urgent enough</i>
1550 Hrs-1630 Hrs	Break

Minute to Minute Programme of the Valedictory Function

Day 2: Sep 20, 2022 Valedictory Function (1630 Hrs-1720 Hrs) Venue: Multi Activity Auditorium (MAC), IIT Roorkee		
1630 Hrs- 1633 Hrs	Opening Remarks	
1633 Hrs-1638 Hrs	Welcome address	Prof. Ashish Pandey Head, Department of WRD&M Chairman of ICCWE-2022
1638 Hrs-1648 Hrs	Report of the conference and announcement of best paper awards	Prof. Mohit Prakash Mohanty Department of Water Resources Development & Management, IIT Roorkee Organizing Secretary of ICCWE-2022
1648 Hrs-1653 Hrs	Address by	Shri D.P Mathuria, Executive Director (Technical), NMCG, New Delhi
1653 Hrs-1700 Hrs	Address by	Dr. A.K Mitra Director, National Centre for Medium Range Weather Forecasting, Noida
1700 Hrs- 1710 Hrs	Address by	Prof. A.K. Chaturvedi Director, IIT Roorkee
1710 Hrs - 1714 Hrs	Presentation of mementos to the dignitaries	
1714 Hrs - 1719 Hrs	Vote of Thanks	Prof. Basant Yadav Department of Water Resources Development & Management IIT Roorkee
1719 Hrs – 1720 Hrs	National Anthem	
1720 Hrs	Tea	