Decoding Climate Change: From Modelling to Machine Learning

2 – 4 September 2024

Organized by

KSCSTE – Institute for Climate Change Studies, Kottayam
Department of Science and Technology, Govt. of Kerala

SCHEDULE

Day 1: 2nd September 2024

09:30 AM	10:00 AM	Registration	
10:00 AM	**11:00 AM**	**Inaugural Session**	
		Welcome Address: **Dr. K. Rajendran** Director, ICCS Presidential Address: **Prof. K. P. Sudheer** Ex Officio Principal Secretary S&T Department & Executive Vice President KSCSTE Inaugural Address: **Shri. M. C. Dathan** Mentor (Science) to Chief Minister, Government of Kerala Felicitation: **Shri. P. Arumugam** Director (Training) The National Institute for Rubber Training Vote of Thanks: **Dr. C. C. Bajish** Senior Scientist, ICCS	
11:00 AM	11:15 AM	**High Tea**	

Start	End	Event	Resource Person
11:15 AM	11:30 AM	Self-introduction by the attendees	
11:30 AM	01:00 PM	*Expert Lecture* Fundamentals of Climate Modelling and Isolating Human-Induced Climate Change Signals	**Dr. Sabin Thazhe Purayil**, IITM Pune
01:00 PM	02:00 PM	**Lunch Break**	
02:00 PM	03:00 PM	*Expert Lecture* Climate Change: The Challenges in Regional Impact Assessment	**Dr. Athira P.**, IIT Palakkad
03:00 PM	03:15 PM	**Break**	
03:15 PM	04:15 PM	*Hands on session* Climate Change: The Challenges in Regional Impact Assessment	**Dr. Athira P.**, IIT Palakkad
04:15 PM	04:30 PM	**Tea Break**	
04:30 PM	05:30 PM	*Hands on session* Climate Change: The Challenges in Regional Impact Assessment	**Dr. Athira P.**, IIT Palakkad

Day 2: 3rd September 2024

Start	End	Event	Resource Person
09:30 AM	11:00 AM	*Expert Lecture* From Ice Ages to Hot Messes: A Journey Through Climate Models and What's Next!	**Dr. Sachin S. Gunthe**, IIT Madras
11:00 AM	11:15 AM	**Tea Break**	
11:15 AM	12:30 PM	*Expert Lecture* Applications of Machine Learning in Hydro-Climate Modelling	**Dr. K. S. Kasiviswanathan**, IIT Roorkee
12:30 PM	01:30 PM	**Lunch Break**	
01:30 PM	02:30 PM	*Hands on session* Applications of Machine Learning in Hydro-Climate Modelling	**Dr. K. S. Kasiviswanathan**, IIT Roorkee
02:30 PM	02:45 PM	**Break**	
02:45 PM	03:45 PM	*Hands on session* Applications of Machine Learning in Hydro-Climate Modelling	**Dr. K. S. Kasiviswanathan**, IIT Roorkee
03:45 PM	04:00 PM	**Tea Break**	
04:00 PM	05:00 PM	*Hands on session* Applications of Machine Learning in Hydro-Climate Modelling	**Dr. K. S. Kasiviswanathan**, IIT Roorkee
05:00 PM	05:30 PM	Group Activity	

Day 3: 4th September 2024

Start	End	Event	Resource Person
09:30 AM	10:30 AM	*Expert Lecture* Modelling of Ocean General Circulation features in the northern Indian Ocean	**Dr. Francis P. A.**, INCOIS, Hyderabad
10:30 AM	11:30 AM	*Expert Lecture* Navigating Uncertainty: Enhancing Impact-Based Forecasting with Numerical Weather Prediction	**Dr. S. Abhilash**, CUSAT
11:30 AM	11:45 AM	**Tea Break**	
11:45 AM	12:30 PM	*Expert Lecture* Net Zero Carbon, Carbon Credits, and Environmental Audit at Sreenarayanapuram Panchayat, LSGD Thrissur, Kerala: A Potential Remedial Measure to Climate Disaster.	**Sri. Anand Sebastian,** IRTC Palakkad
12:30 PM	01:00 PM	**Student Presentation**	
01:00 PM	02:00 PM	**Lunch Break**	
02:00 PM	03:00 PM	**Student Presentation & Feedback**	
03:00 PM	03:15 PM	**Break**	
03:15 PM	04:15 PM	**Valedictory**	
04:15 PM	04:30 PM	High Tea	