

WORKSHOP SCHEDULE

Pre-INQUA Southern Chapter Workshop on Quaternary Earth System Processes and Geohazards in Southern India

28th–29th September 2026, National Centre for Earth Science Studies (NCESS)

Time	Session / Activity	Speaker	Details / Remarks
DAY 1: THEME: Quaternary climate and environmental change in Southern India			Date: 28.09.2026
8:30-9:30 AM	Registration and Reception		
9:30-10:30 AM	Inaugural Session		
10:20-10:45 AM			
10:45-11:15	1st Session: Chair: Dr. Rahul Mohan, Dr. K. Maya	1. Prof. Pradeep Srivastava (Invited talk, IIT Roorkee)	Integrating Molecular biology in Geosciences: A New Frontier
11:15-11:45		2. Dr. Binita Phartiyal (Invited talk, BSIP, Lucknow)	INQUA: Advancing Quaternary Science for a Changing Earth and Society
11:45 – 12:15		3. Prof. S. M. Hussain (Invited talk, University of Madras, Chennai)	Microfossils: how significant are they in the studies of natural hazards, particularly tsunami deposits?
12:15 -12:25		4. Dr. Linto Alappat (Christ College Autonomous, Irinjalakuda)	Late Quaternary stratigraphy and palaeo-environmental implications of Red Dune sands (teri sands) of South India
12:25 – 12:35		5. Dr. Mayank Shukla (IIT, Bombay)	Unravelling the Origin and Weathering History of the Teri Red Sands, Southern India: Multi-Proxy Evidence and Implications for Quaternary Climate Variability
12:35-12:45		6. Dr. Suja S (NCESS)	Reconstructing the Late Quaternary Palaeomonsoon history of the southern continental margin of India: Inferences from sediment provenance-weathering intensity variations
12:45 – 12:55		7. Miss. Alfia Zakkir Hussain (NCESS)	Glacial–Holocene Sedimentary Response to Changing Depositional Conditions and Weathering on the Southwestern Indian Margin.
12:55 – 1:05		8. Mr. Harinarayanan A (Christ College Autonomous, Irinjalakuda)	Deciphering Quaternary Coastal Evolution from Red Dune Archives along the Muttom–Colachel Coast, Southwest Tamil Nadu, India
2:00-2:30	2nd Session:	1. Prof. Sijin Kumar A. V. (Invited talk, Central University of Kerala, Kasaragod)	Quaternary Indian Monsoon Variability: Insights from Bay of Bengal Marine Archives
2:30-3:00		2. Dr. Sandeep K. (Invited talk, Central University of Kerala, Kasaragod)	Palaeorainfall variability in southern India during the Holocene: Insights from Lake sediment records

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3:00-3:30	Chair: Prof. Pradeep Srivastava, Dr. Binita Phartiyal	3. Dr. Manoj MC (Invited talk, BSIP, Lucknow)	Sedimentary Proxy Records of Quaternary Monsoon Variability: A Multi-Archive Perspective from Marine and Terrestrial Depositional Regimes
3:45-4:15	3rd Session: Dr. Rasik Ravindra, Dr. Rahul Mohan,	1. Prof. Sajin Kumar K. S. (Invited talk, University of Kerala, Thiruvananthapuram)	Paleo-Landslides as drivers of landscape evolution in the Western Ghats, India: Insights from the Sandose Mega-landslide complex
4:15-4:25		2. Dr. Mohammad Nuruzzama (NCESS)	Redox Oscillations Recorded by High-Resolution Geochemical Stratigraphy of a Ferromanganese Nodule from the Sewell Rise, Andaman Sea
4:25-4:35		3. Dr. Chinmay Dash (IISER Tirupati)	Holocene Indian Summer Monsoon Variability and Sediment Transformation in the Chilika Lagoon Source-to-Sink System, Eastern India
4:35 – 4:45		4. Mr. Anand Rajoriya (BSIP, Lucknow)	Mangrove sedimentary archive reveals palaeoenvironmental biogeochemical and sea-level changes during the Holocene: A study from Tamil Nadu, India
4:45 – 4:55		5. Dr. Sudharshan R (Indira Gandhi National Centre for the Arts, Puducherry)	Gandikota: Palaeoecology and Long-Term Human–Environment Interaction in a Quaternary Landscape of Southern India
4:55-5:05		6. Ms. M Mounica (University of Madras)	Mangroves as an Ecological buffer Against industrial Pollution: A Geospatial Assessment of the Kosasthalaiyar River.
5:05-5:15		7. Dr. S.Richard Abishek (NCESS)	Evaluating geomorphic landform morphodynamics and its sediment geochemical characteristics in the fluvio-marine system of Kannur District, Northern Kerala
5:15-6:30	4th Session: Chair: Prof. Sajin Kumar K. S., Prof. Sijin Kumar,		Poster session
DAY 2: THEME: _Geohazards in Southern India			Date: 29.09.2026
9:30-10:00	1st Session: Chair: Dr. Rasik Ravindra, Prof. N. V Chalapathi Rao	1. Dr. Anand Kumar Pandey (Invited talk, CSIR-NGRI, Hyderabad)	Shallow subsurface imaging for assessing hazard potential in the Late Quaternary fluvial repository for a resilient society
10:00-10:30		2. Prof. Girish Gopinath (Invited talk, KUFOB, Kochi)	Landslides of Kerala
10:30-10:40		3. Dr. Biju John (National Institute of Rock Mechanics)	Subtle structural testimony of Active faults: examples from Peninsular India
10:40-10:50		4. Dr. Yogendra Singh (National Institute of Rock Mechanics)	Signature of Recurrent Activity: Field Observations from Eastern Ghat Mobile Belt (EGMB)

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10:50-11:00		5. Dr. Rajesh Kumar Dash (CSIR-CBRI, Roorkee)	Lessons from Wayanad: A Framework for Comprehensive Debris Flow Hazard Assessment in the Western Ghats
11:15-11:35	2nd Session: Chair: Dr. Anand Kumar Pandey, Prof. Girish Gopinath	1. Dr. Yunus Ali Pulpadan (IISER Mohali)	ALERT: A Planetary Scale Satellite Rainfall-Driven Automated Landslide Early Risk Tracker for Data-Scarce Regions
11:35-11:45		2. Miss. Arya R (Vellore Institute of Technology)	Atmospheric Drivers and Hazard Implications of a Localised Extreme Rainfall Event over Chennai, Southern India
11:45-11:55		3. Miss. Panjami K (Federal Institute of Science and Technology, Angamaly)	Multi-Geophysical Characterization of Soil Piping Affected Regions Using Ensemble Machine Learning and Fuzzy Risk Assessment
11:55-12:05		4. Miss. Ashitha K K (NCPOR)	Submarine slope failures along the Indian Continental Margin: Geomorphological Insights and Geohazard Implications.
12:05-12:15		5. Mr. Govind R S (KUFOS, Kochi)	Flood susceptibility mapping using XGBoost and GIS based evacuation route and service area analysis
12:15-12:25		6. Mr. Ronak Raj Sharma (Hindu College, University of Delhi)	Integrated Assessment of a Severe Dust-Storm Event over Northwestern India: Atmospheric Transport, Aerosol Evolution, Air Quality and Radiative Impacts
12:25-12:35		7. Mr. Kiran Shankar (CWRDM)	Rethinking Model Evaluation in Machine-Learning-Based Landslide Susceptibility Modelling
12:35-12:45		8. Dr. Vandana M (NCESS)	Geomorphic evolution and landscape development in Trivandrum block, Southern Western Ghats, India
2:00-2:30	3rd Session: Chair: Dr. J K Tomson, Dr. Reji Srinivas	1. Dr. Ramesh Madipally (NCESS)	Coastal monitoring for Disaster mitigation and management
2:30-2:40		2. Mr. Yadhukrishna N.K (KUFOS, Kochi)	Spatio-temporal characterization and hotspot mapping of coastal hazards along the Kerala coast: a media-reported event catalogue approach (2000–2025)
2:40-2:50		3. Mr. Jithin Das T I (KUFOS, Kochi)	Configuration and validation of very high-resolution model along the Indian coast
2:50-3:20		4. Dr. Kotluri Sravan Kumar (NCESS)	Looking beneath the surface: Ground Penetrating Radar (GPR) for Geohazard Investigation
3:20-3:35			
3:45-4:15	Valedictory Session		
4:15 – 5:30	Lab visit		