Programme Details

Venue: Homi Bhabha Hall, 3rd Floor, Central Library

DAY 1 - 07/01/2026 (Wednesday)

08:00 - 09:00	Breakfast
09:00 - 10:00	Inauguration
10:00 - 11:10	Talks - **SSH-O1: Strain, Seismicity and Hazards in the Himalaya** **Session Leaders: Vineet K. Gahalaut, Supriyo Mitra** **1. Vineet K. Gahalaut** (**10:00 - 10:50**: Talk - 40 mins, Q&A - 10 mins) **-** "Strain map of the Himalayan region" **2. Ammu JK** (**10:50 - 11:10**: Talk - 15 mins, Q&A - 5 mins) **-** “Unraveling paleoshortening directions from leading edge of thrust sheets in an active orogen by integrating mechanical, kinematic inversion of slickenlines and penetrative strain: A case study from the Ramgarh thrust sheet, Darjeeling-Himalaya”
11:10 - 11:30	Tea Break
11:30 - 13:00	Talks - **SSH-O2: Strain, Seismicity and Hazards in the Himalaya** **Session Leaders: Vineet K. Gahalaut, Supriyo Mitra** **1. Sreejith KM** (**11:30 - 12:00**: Talk - 25 mins, Q&A - 5 mins) - “Geodetic insights to the Himalayan megathrust kinematics unravel increased earthquake hazard” **2. Malay Mukul** (**12:00 - 12:30**: Talk - 25 mins, Q&A - 5 mins) - “The role of Himalayan deformation and structural architecture in understanding Himalayan Seismic Hazards” **3. Shamim SK** (**12:30 - 12:50**: Talk - 15 mins, Q&A - 5 mins) - “Locked Frontal and Lateral Ramps on the Main Himalayan Thrust beneath NW Himalaya illuminated by precisely located seismicity”
13:00 - 14:30	Lunch
14:30 - 16:00	Talks - **SSH-O3: Strain, Seismicity and Hazards in the Himalaya** **Session Leaders: Vineet K. Gahalaut, Supriyo Mitra** **1. Supriyo Mitra** (**14:30 - 15:20**: Talk - 40 mins, Q&A - 10 mins) - “Earthquake hazard in the Himalaya: Lessons learnt from recent earthquakes” **2. Madan Mohan Rout** (**15:20 - 15:40**: Talk - 15 mins, Q&A - 5 mins) - “Probabilistic Seismic Hazard Assessment of Himalayan region Using Zoning, Zone-Free and Moment Slip Approaches” **3. Rupak Banerjee** (**15:40 - 16:00**: Talk - 15 mins, Q&A - 5 mins) - “Constraints on the Lithospheric Deformation in Northwest Himalaya Using Core-Mantle Boundary Refracted Shear (Sks) and Direct Shear (S) Waves”

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16:00 - 18:00	Tea Break and Poster Session ● **SSH-P: Strain, Seismicity and Hazards in the Himalaya** 1. **Meghana Ajith** - *“Co-seismic Source Radiation Characteristics for the March 2026 Myanmar Earthquake through Temporal Polarity Effects”* 2. **Siba Sankar Bishoyi** - *“Constraining the Crystallographic Vorticity Axis using kernel-scale Orientation Dispersion in Mineral Phases: Implications for Reconstructing Progressive Deformation Event”* 3. **Aashruti** - *“Complex deformation of India-Eurasia collision zone: Insights from Anisotropy, stress and strain rate”* 4. **Akshat Sharma** - *“An integrated geological and geophysical model of the Rampur Tectonic Window: implications for seismic hazard”* 5. **Shohini Sen** - *“Modelling the Coseismic Phase of the Earthquake Cycle using the Burridge Knopoff Model”* 6. **Pankaj Lahon** - *“Effect of 1D and 3D velocity models on moment tensor solutions for the 2015 Nepal aftershocks”* 7. **Tiente Rengneichuong Koireng** - *“Spatial variations in the low velocity layer above the 410 km discontinuity and their relationship to mantle dynamics”* ● **IE-P: Intraplate Earthquakes - Occurrence, Processes and Geology** 1. **Md Sohail Khan** - *“Thermomechanical Model of the Indian Lithosphere: Implications for Intraplate Seismicity”* ● **PE-P: Physics of Earthquakes: Theory and Experiments** 1. **Jyotirmoy Das** - *“A Micro-physical Model to explain the Rate-Dependent Friction”* 2. **Subhasish Mukherjee** - *“Landslide times-to-failure - Comparing rate-and-state friction laws”*
20:00 - 22:00	Dinner

DAY 2 - 08/01/2026 (Thursday)

08:00 - 09:00	Breakfast
09:00 - 10:30	Talks - **IE-O1: Intraplate Earthquakes - Occurrence, Processes and Geology** **Session Leaders: Anupam Chattopadhyay, Santanu Misra** **1. Anupam Chattopadhyay** (**09:00 - 09:50**: Talk - 40 mins, Q&A - 10 mins) - "Seismogenic fault reactivation and intraplate earthquakes: a synthesis of ideas from ancient pseudotachylyte veins in the rock record" **2. Dibyajyoti Chaudhuri** (**09:50 - 10:10**: Talk - 15 mins, Q&A - 5 mins) **-** "Unraveling Intraplate Strike Slip Kinematics in the Eastern Himalayan and Indo-Burman Plate Boundary Systems" **3. Ratna Bhagat** (**10:10 - 10:30**: Talk - 15 mins, Q&A - 5 mins) **-** "Dynamics of Aseismic Slip, Fluid Flow, and Fault Interaction in the Palghar Earthquake Swarm"
10:30 - 11:00	Tea Break
11:00 - 12:30	Talks - **IE-O2: Intraplate Earthquakes - Occurrence, Processes and Geology** **Session Leaders: Anupam Chattopadhyay, Santanu Misra** **1. Attreyee Ghosh** (**11:00 - 11:30**: Talk - 25 mins, Q&A - 5 mins) - "Intraplate Earthquakes and their relations with plate boundary forces" **2. Sukanta Roy** (**11:30 - 12:00**: Talk - 25 mins, Q&A - 5 mins) - "Scientific deep drilling in the Koyna intraplate seismic zone, Maharashtra: towards a paradigm shift in earthquake science" **3. Anup Sutar** (**12:00 - 12:30**: Talk - 25 mins, Q&A - 5 mins) **-** "Revisiting M > 6 reservoir triggered earthquakes around the globe: What makes the Koyna a unique site?"
13:00 - 14:30	Lunch
14:30 - 16:00	Talks - **PE-O1: Physics of Earthquakes: Theory and Experiments** **Session Leader: Harsha S. Bhat** **1. Harsha S. Bhat** (**14:30 - 15:20**: Talk - 40 mins, Q&A - 10 mins) **-** "Spectrum of slip dynamics, scaling & statistical laws for earthquakes emerge from simplified models of faults and damage zone architecture" **2. Sauparna Ghosh** (**15:20 - 15:40**: Talk - 15 mins, Q&A - 5 mins) **-** "Effect of Damage Zone on Earthquake Rupture Dynamics on Planar Fault: Insights from Direct Experimental Observations" **3. Sohom Ray** (**15:40 - 16:00**: Talk - 15 mins, Q&A - 5 mins) **-** "Aseismic rupture in elasto-frictional, rate-weakening interfaces: Relevance to earthquakes and landslides"

DAY 2 - 08/01/2026 (Thursday)

16:00 - 16:30	Tea Break
16:30 - 18:00	Talks - **PE-O2: Physics of Earthquakes: Theory and Experiments** **Session Leader: Harsha S. Bhat** **1. Ajay Kumar** (**16:30 - 16:50**: Talk - 15 mins, Q&A - 5 mins) **-** “The 28 March 2026 Mw 7.7 Myanmar Earthquake: Spatio-temporal Rupture Evolution and Source Characteristics” **2. Karan Adhikari** (**16:50 - 17:10**: Talk - 15 mins, Q&A - 5 mins) **-** “Constraining the Physical Controls of Transient Fault Friction Using Acoustic Emissions” **3. Rajiv Ranjan** (**17:10 - 17:30**: Talk - 15 mins, Q&A - 5 mins) **-** “Investigating Frictional Properties in NW Himalayan Faults: High Pressure-Temperature Experiments” **4. Pritom Sarma** (**17:30 - 17:50**: Talk - 15 mins, Q&A - 5 mins) **-** “Response of a fluid-saturated fault gouge to frequency varied cyclic pore-pressure oscillations”
20:00 - 22:00	Gala Dinner

DAY 3 - 09/01/2026 (Friday)

08:00 - 09:00	Breakfast
09:00 - 10:00	SSH, IE and PE Breakout Sessions (in parallel)
10:00 - 10:30	Conclusion. Where to next?
10:30 - 12:30 12:30 - 16:30 16:30 - 18:30	Travel to Mahanadi Shear Zone to see rock record of earthquakes Fossilized earthquakes within the Mahanadi Shear Zone! Travel back to NISER
20:00 - 22:00	Dinner

Important Places in NISER