



6th Workshop on Luminescence Dating and its Applications

Focal Themes

- Advances in Luminescence Dating Technique
- Aeolian and Aquatic Systems
- Glacial Geomorphology and Paleoclimate Records
- Pre- and historic archaeology
- Landscape Evolution, Tectonics, and Paleoseismicity
- Novel Geological Application of Luminescence Dating



December 10-12, 2025



ald25.wihg@gmail.com



**Wadia Institute of
Himalayan Geology,
Dehradun, India**

Important Dates

- **Aug 26, 2025:** Registration and abstract submission open
- **Oct 15, 2025:** Deadline for registration and abstract submission
- **Oct 31, 2025:** Acceptance notifications

Registration QR



Wadia Institute of Himalayan Geology

IN ASSOCIATION WITH

Association for Luminescence Dating (ALD), India

The Workshop

Mineral luminescence is now a powerful technique for studying crystal defects with wide-ranging applications in personnel, accidental, space and medical dosimetry, archaeology, geology, meteoritics, and planetary sciences. It is commonly used to measure total radiation exposure from environmental or ambient radioactivity.

In geological and archaeological contexts, luminescence dosimetry has enabled reconstructions of Earth surface processes, past climatic and seismic event chronology, and sediment provenance and transport pathways. Its societal relevance includes establishing the chronology of floods, past earthquakes and the migrations of Early Humans. Methodological advances such as multi- and single-grain automated readers, imaging systems for rock slices, and novel protocols like TT-OSL, pIRIR, pVIRSL, IRPL, and IR-RF have facilitated its large-scale applications. Enhanced by its self-consistency with the use of varied signals and protocols, the technique's scope continues to expand into low-temperature thermochronology, rock surface exposure and erosion, thermal and radiation histories of meteorites and planetary bodies, sediment fluxes, provenance research, and nuclear medicine. Presently, more than 750 automated systems across around 100 laboratories generate three to four publications daily, constituting a major fraction of global Quaternary research.

In India, over a dozen laboratories spanning physics, geology, archaeology, planetary science, and radiation research are making notable contributions to both methodological innovations and new applications.

Regular national workshops have promoted collaboration, capacity building, and knowledge exchange. The current workshop, the sixth in these well-attended annual meetings, provides a valuable platform for interactions among experienced researchers, young scientists, and students. These meetings feature field training, thematic discussions on methodology and data analysis, and review talks by leading national and international experts. They also address initiatives such as developing community-led calibration standards, interlaboratory calibration protocols, and best practices for consistency and reproducibility across Indian laboratories and future directions of luminescence research.

About WIHG, The Host Institute

The Wadia Institute of Himalayan Geology (WIHG), Dehradun, is an autonomous research institute under the Department of Science and Technology (DST), Government of India. Established as the Institute of Himalayan Geology, it was later renamed to honour its founder, the late Prof. D. N. Wadia (F.R.S., National Professor), for his pioneering contributions to the geology of the Himalaya. Over the past few decades, WIHG has grown into a centre of excellence, internationally acclaimed for its scientific contributions and advanced research laboratories.

For over three decades, the Luminescence Laboratory at WIHG has been developing and refining applications of luminescence dating in geomorphology, paleoclimatology, paleoglaciology, and neotectonics, with particular focus on the Himalaya and other tectonically and climatically sensitive regions.

Program

Dec 10, 2025: A field training Program will cover the fundamentals of sedimentary deposits and field methodologies for OSL sampling and include an introduction to Himalayan orogeny and tectonics (Subject to a minimum of 20 participants).

Dec 11-12, 2025: Technical/poster sessions and overview talks focusing on advances in luminescence dating methods and their applications in aquatic, aeolian, glacial, geomorphology, seismotectonic systems, and archaeology, allowing more time for interactions.

Registration and Abstract submission

Participation is open to all practitioners and researchers interested in the use of luminescence dating and radiation dosimetry across disciplines. Register and (optionally) submit abstracts from August 26 to October 15, 2025, via the QR code or the provided link (Both steps can be completed online):

<https://forms.gle/AsYGvBq3SR2ntEbr6>

Registration Fee

- **Students/Scholars: INR 2000/-**
- **Faculty/Scientists: INR 3500/-**

Travel and Accommodation

Dehradun is well connected by road, rail, and air, to the National Capital Delhi and other major cities of India. making WIHG easily accessible by both public and private transport. Efforts will be made to arrange accommodation for participants based on registrations and submitted abstracts. Subject to the availability of funds and upon advance application, deserving candidates may be provided return AC-3 train fare and concessional accommodation.

Host

The Director, WIHG, Dehradun

Patron

Prof. Ashok K. Singhvi, PRL Ahmedabad and Shantou University, China

President (ALD)

Dr. Madhav K. Murari, IUAC, New Delhi

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