



## Irish Geological Association Lecture

### **“My Journey with Pegmatites: From India to Malawi”**

**By Dr Tuhin Chakraborty (iCRAG, University College Cork)**

**Abstract:** Pegmatites are considered economically important because of their potential to be considered as a source for critical metals and exotic gems. These rocks however are petrologically fascinating. For the time being we will be discussing two different pegmatites, who not only are from very different geological localities but are also chronologically distinct. We will take a close look at something common in both these pegmatite groups; the textural and mineralogical zoning present in them. The first one is the Neoproterozoic (~950 Ma) pegmatite from the Gangpur Group, Eastern India and the second one is ~Pan-African (550–480 Ma) pegmatite from the Malawi Super Group. We will see how tourmaline and muscovite chemistry analysed from each of these pegmatite zones tells a story of relative depletion and enrichment of certain elements, ultimately dictating the formation of the zones and certain associated gem minerals.

**Date and Time:** Wednesday, 27th September 2023, between 19:00 pm and 20:00 via Zoom only.

**To Register:** send an e-mail to [info@geology.ie](mailto:info@geology.ie)

*A Zoom link will be sent on the day to those who have registered.*