

Title: - Paleo-magnetism Made Simple: Key Ideas and Insights

Speaker: - Manan Singh (RS- 1)

Abstract:-

Earth's past has always been full of mysteries, sparking curiosity about how it developed into the world we see today on maps and globes. The effort put into research unravelling the superficial modifications of the earth involves numerous parameters, including the magnetic remanence stored within the crustal rocks. It provides a higher resolution of the crustal history and aids contemporary research by emphasizing the study of the magnetic behavior of crustal minerals and rocks, introducing directions (or vectors). A perfect blend of theoretical and practical concepts, including extensive field expertise and laboratory analysis/instrumentation, paleo-magnetic study has provided substantial evidence supporting the theory of plate tectonics and has laid the foundation for further research. In this talk, we will gain a broader insight into how to begin a paleo-magnetic study, addressing some of the most common and minor questions along the way. By the end of this talk, the audience will be acquainted with the fundamentals and the purpose of paleo-magnetic studies, as well as their intricate details, which are appealing to all relevant sectors of the scientific community.