



SPG BHU Student Chapter organised Geo-Aakarshan from 3rd to 5th September 2024

Banaras Hindu University Geophysical Society (BHU), in collaboration with the Society of Exploration Geophysicists (SEG), the Society of Petroleum Geophysicists (SPG), the Association of Exploration Geophysicists (AEG), and the Indian Geophysical Union (IGU) Student Chapters organized **Geo-Aakarshan 2024** held from September 3rd to September 5th, in both online and offline modes. Geo-Aakarshan offers a unique opportunity for knowledge-sharing, skill development, and innovation, ensuring a bright future for Earth Science.



Geo-Aakarshan is a celebration of Earth Science, aiming to bring this fascinating field to the forefront and inspire young minds to pursue careers in geoscience. Beyond raising awareness, it serves as a platform for students to showcase their talents through various competitions and challenges.

The event attracted over 100 participants from several Indian universities including Andhra University, ISM Dhanbad, and IIT Kharagpur, Banaras Hindu University, Allahabad University, Delhi University etc., who attended series of lectures and talks, which were held both online and offline. They actively engaged in a wide range of events, contributing to a vibrant and collaborative learning environment. This diverse involvement enriched the experience for everyone and underscored the broad interest in our programming.

A major highlight of the Geo-Aakarshan Symposium was a series of talks delivered by some of the most respected figures in the field of geosciences. These invited speakers, all leaders in their respective domains, shared their extensive knowledge and research on a range of cutting-edge topics. The lectures were designed to provide deep dives into complex subjects, offering attendees a unique opportunity to gain a comprehensive understanding of the latest advancements and trends.

The following key lectures were delivered at the event:

1. *National seismological network in India for real time Bhokamp monitoring and hazard migration*, by Dr. Ajay Pratap Singh (Chief Guest), Scientist ENational Centre for seismology Ministry of Earth sciences (MoES), New Delhi.
2. *Seismic Inversion and Machine Learning*, by Prof. Mrinal K. Sen, Professor and Jackson Chair in Applied Seismology, Jackson School of Geosciences, The University of Texas, Austin United states of America.
3. *Effect of Geomagnetic Storm on Low Latitude Ionosphere*, by Prof. Abhay Singh, Professor, Atmospheric Research Lab Department of Physics, Banaras Hindu University Varanasi.
4. *Revisiting Hyper spectral Remote Sensing Techniques and Applications*, by Dr. Prashant Kumar Srivastava, Assistant Professor, Remote Sensing Laboratory, Institute of Environment and Sustainable Development, Banaras Hindu University, Varanasi.
5. *New Trends in Geophysics – Career Guidance*, by Dr. B. Narasimha Rao, Managing Director, Spectra Geoservices Pvt. Ltd.
6. *Logging Techniques and Evaluation of Thin Bedded Reservoir*, by Dr. Anil Tyagi, Vice President, Sun Petrochemicals Pvt. Ltd.
7. *Origins of Faults Cits Sealing Capabilities for Hydrocarbon Entrapment*, by Mr. Sai Ravindra Abburu, Senior Reservoir Geologist, Digital and Integration (DCI) Division Schlumberger.
8. *Interactive session* by Dr. V M Tiwari, Director, CSIR-North-East Institute of science and technology (CSIR-

NEIST) Jorhat, Assam

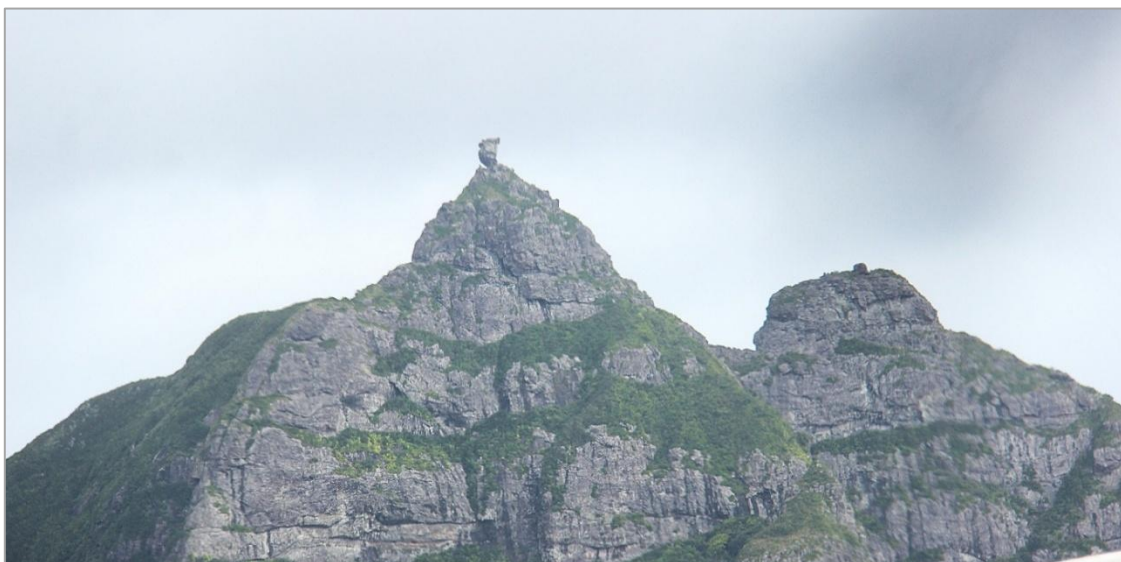
9. *Modelling of Weather and Climate*, by Dr Akhilesh Mishra (Chief Guest), Scientist-E National center for medium range weather forecasting (NCMRWF), Noida, Ministry of Earth sciences (MoES) New Delhi.

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Geo Snap



Pieter Both (human head shaped) mountain. A 820 m tall, part of the Moka Range, volcanic dome system formed approximately 10 million years ago. The mountain comprises mafic volcanic rocks, predominantly fine-grained basalt from the Older Series, with intermittent ankaramite intrusions—basalts rich in olivine and augite phenocrysts. This is reflective of typical shield volcano construction and intrusive features. Distinctive Summit Boulder (“Head”), i.e., its summit is capped by a large, nearly spherical basalt boulder (~9 m diameter), perched precariously atop the narrow rocky spine. This remarkable feature likely originated as a volcanic plug or eroded basalt block, resistant to weathering and separated by erosion from surrounding flow units. (Photo courtesy: Ritesh Mohan Joshi)