

## RESONANCE 2022 – A report



The Department of Geophysics, Kurukshetra University organized a geophysical conference, named, 'RESONANCE 2022'. The conference was organized on 20<sup>th</sup> August 2022 at the India Habitat Centre, New Delhi. The event consisted of technical talks by experts from various domains of geophysics and poster presentations showcasing the innovation and research by students of the Department. The event was organized by the SPG and SEG student chapters of Kurukshetra University along with the support of alumni association GEOKUK of the department.

The aim of the event was to provide students with a bridge between academia and industry. The conference consisted of technical talks by eminent personalities from industry who are aces in their domains and areas of expertise. The talks ranged from mineral exploration to artificial intelligence, from unique applications of geophysics to digital oil fields. These sessions were a lot of brain food for the students of Department of Geophysics, Kurukshetra University and helped in encouraging the enthusiastic and knowledge hungry students.

This was followed by the poster presentations by students of the university. The students presented their work in research and innovation on various topics ranging from disaster management, geospatial technology, geomorphology to seismic inversion and well log. This encouraged students towards more innovative thinking.

The chief guest of the event was Dr. O. P. Mishra, Director of National Centre for Seismology, Ministry of Earth Science, and the guest of honour was Prof. S. S. Teotia, founder of Student Chapters at SPG and SEG Kurukshetra University and Vice Chancellor of NIILM University, Kaithal.



*(Dr. Mishra, Director (NCS-MoES)-addressing the conference attendees)*



*(Prof. Teotia addressing the conference attendees)*

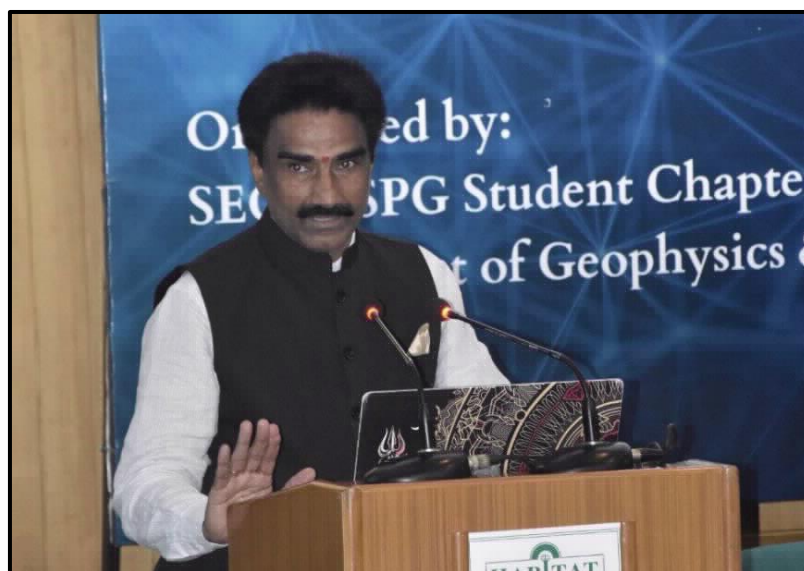
The technical session consisted of four talks and poster presentations. The first talk of the technical session was on the most advanced and flourishing technology in all domains, entitled 'Machine learning applications in

oil and gas exploration'. This session was delivered by Mr. Abhimanyu Yadav, product owner and senior data scientist at Gram Unnati, Gurugram (Haryana).



*(Shri Abhimanyu Yadav delivering his technical talk)*

The second talk of the morning session was delivered by Mr. Gulzar Singh Dhama, DGM (Geophysics) and Head of Department, MECL, Maharashtra. The topic of the session was "Schematic mapping and delineation of manganese ores by gravity and magnetic survey in Kalakhunta Area.



*(Shri Gulzar Singh Dhama delivering his technical talk)*

The afternoon session consisted of two more technical talks on topics about the latest trends and applications of geophysics to the industry.

The first afternoon session was on "Unique applications of engineering geophysics", delivered by Dr. Sanjay Rana, Chairman and Managing Director, PARSAN.



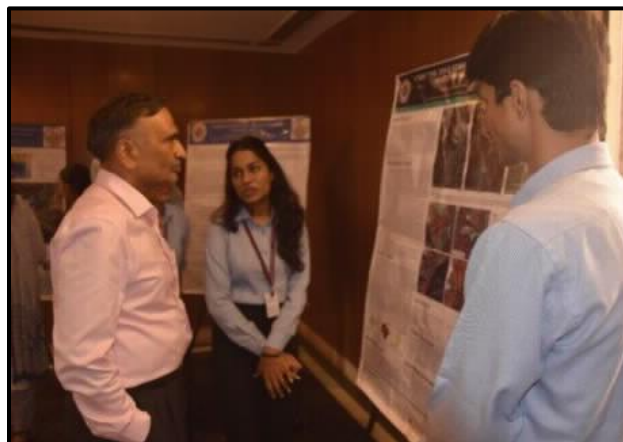
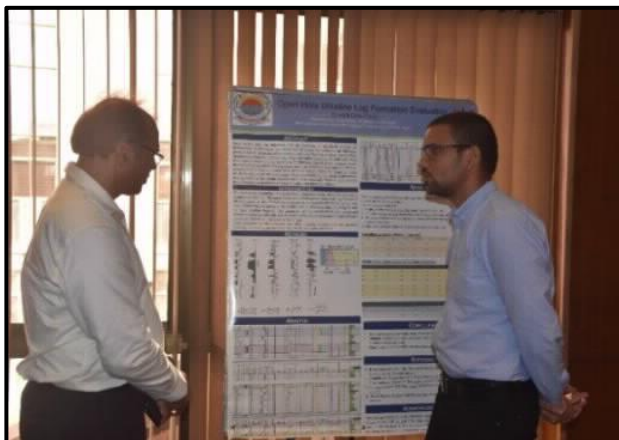
*(Shri Sanjay Rana delivering his technical talk)*

The last technical talk was on the most advanced technology in E and P sector. The title of the session was "Digital oil fields" delivered by Mr. Jitender Sharma, Middle East and North Africa business manager at Schlumberger, Dubai.



*(Shri Jitender Sharma delivering his technical talk)*

The technical talks were followed by poster presentations by students on various projects ranging from disaster management, geospatial technology, geomorphology to seismic inversion and well log.



The event not only provided students with a platform to learn but also a platform to present their work, and a much-needed exposure and knowledge of the latest innovations in the industry which will help in better shaping of their minds to make smarter career choices. [G](#)