

SPG organized a technical webinar on 15th November 2022 at Dehradun

A technical webinar was organized by SPG, India on "Stepping towards more accurate seismic reservoir characterization" on 15th November 2022 by Mr. Satinder Chopra, President SamiGeo Consulting Ltd., Calgary, Canada, and Chief Editor, GEOHORIZONS.



Mr. Chopra discussed about conventional workflows with different changes for reservoir characterization for modern seismic data acquired with long offsets and wide azimuths, which could improve the accuracy of the reservoir characteristic significantly. Mr. Chopra demonstrated different example changes in the workflows which could result in value-addition to achieve the objectives set for the projects. He pointed out that example changes could be the use of a calibrated well-driven velocity field in place of the velocity field obtained from processing of seismic data, generating more accurate low-frequency impedance models for prestack simultaneous impedance inversion, and even using different facies trends for inversion of seismic data for multi-level pay formation and discussed about case study from Permian Basin in western Texas, USA. Mr. Chopra also discussed that successful implementation of these proposed workflows could result in fully integrated, three-dimensional characterization, and information on reservoir heterogeneity. He then asserted that in such cases reservoir properties estimated from seismic data in the form of lithology and petrophysical properties are found to be more realistic and he validated those with field examples from different part of the world. Additionally, he discussed about machine learning workflows which contribute to an improved level of understanding of the reservoirs in terms of lithofacies and the overall heterogeneity.

The webinar session was attended by the members of SPG-India from all over the country and other Geoscientists of KDMIPE, GEOPIC, Frontier Basins, other work centres of ONGC and professors and students

from different Institutes. The lecture was well appreciated by all the participants and praised by one and all for its contents and thoughtful discussion provided by the presenter. During the webinar session participants actively participated on discussion and asked various question related to the topic.

The vote of thanks was given by Shri Onkar Singh, Secretary, SPG India. The entire webinar session was coordinated by Shri Shashwat Shubhra, Executive Member, SPG-India. [G](#)



The city of Oslo is located in the middle of the Permian Oslo Graben surrounded by Precambrian basement (900-1000 Ma). Within the city and around the Oslo fjord we find well exposed Permian igneous rocks and a down-faulted Lower Palaeozoic sequence preserved from erosion by the graben structure. Alternating beds of shales and Limestones belonging to Ordovician (495-443 Ma) age are seen in the image. *(Image courtesy of Ritesh M. Joshi)*