

# SPG-Duliajan Chapter organises SEG's 2017 Honorary Lecturer South and East Asia

Society of Petroleum Geophysicists, Duliajan Chapter organized SEG's 2017 Honorary Lecturer, South and East Asia by Dr. J.V.S.S. Narayana Murty at Duliajan on 11.05.2017. The topic of lecture was "Passive seismic tomography (PST), QC and application of PST-derived velocity for seismic imaging. Additionally, Dr. Murty delivered a lecture on seismic-imaging on request of the attendees.

Shri B.P. Sharma, Resident Chief Executive, Oil India Limited, Duliajan inaugurated the session and felicitated Dr. Murty. Shri Sharma enlighten the audience with his brief talk on necessity of the technology induction particularly of PST to get better subsurface image and hence reduce exploration uncertainty. Shri G.V.J. Rao, President-SPG Duliajan Chapter welcomed Dr. Murty and talk about that necessity of PST particularly in the geologically complex areas in Upper Assam Basin.

The session was well attended and actively participated by members of SPG-Duliajan Chapter, Geo-scientists of Oil India Limited and Students of Dibrugarh University along with faculty members.

In this lecture, Dr. Murty first detailed the concept of passive seismic tomography and a field example was also presented to understand concepts, benefits and the limitations of PST using natural earthquakes. Various QC measures and conditioning of PST velocity field was discussed with examples to infer better structural information and use PST velocity as an initial model for reprocessing in seismic imaging. During the lecture, detailed parameterization and methodology of tomographic inversion, uncertainties and its limitations in context of hydrocarbon exploration was discussed. During the talk on Seismic-Imaging, principles of various migration algorithms and their applications were discussed. Dr. Murty conveyed thanks to Mrs Peggy Pryor, SEG; Mr G.V.J. Rao, President, SPG Duliajan Chapter & Mr. Pawan Kumar Singh, Secretary-SPG Duliajan Chapter for arranging this lecture.

Mr. D.S. Manral, Chief Geophysicist conveyed vote of thanks with particular mention of Dr. Murty, SPG-India, SEG and Shell for sponsoring the aforesaid programme.

