

SEG Honorary Lecture Program at Dehradun on 17-3-2011

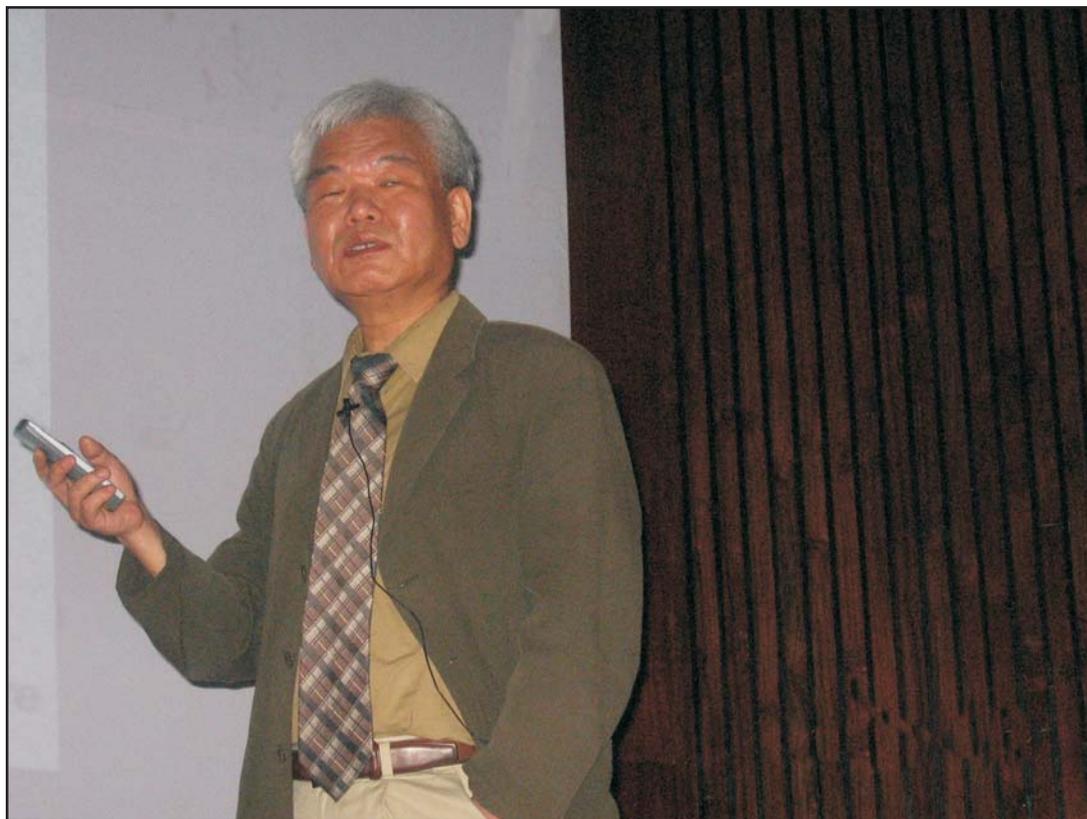
Society of Petroleum Geophysicists (SPG), India organized a half day SEG Honorary Lecture program on the topic **“Incorporating the Fourth Dimension into Geophysical Data Interpretation”** The lecture was delivered by Dr. Jung-Ho Kim, Korea Institute of Geoscience and Mineral Resources, Daejeon South Korea SEG 2011 under Honorary Lecturer South & East Asia on 17th March, 2011 at KDMIPE Mini Auditorium. The talk was well received by the audience with live interaction during the course of presentation.

Dr Jung Ho Kim began with the necessity to incorporate 4th dimension as observation tool to measure time lapse differences in rock properties. He continued further that most geophysical methods aim to obtain spatially varying information concerning subsurface material properties. As a result their measured data and interpreted results are expressed in terms of spatial coordinates. However, in some geophysical approaches, in addition to the spatial domain, variations of material properties in non-spatial dimensions are studied. Typical techniques of this kind are time-lapse geophysical monitoring and the Spectral Induced Polarization (SIP). These two methods can be viewed under

the same interpretation angle in the sense that non spatial dimension (time or frequency) is incorporated into the data measurement and interpretation procedure.

The lecture covered theoretical development and demonstration of the practical applicability in near surface engineering. This was achieved mostly by presenting practical application of the approach into resistivity monitoring and SIP data coming from various environmental and engineering case studies such as hydro-geophysical experiments, assessment of ground re-enforcement works, ground condition changes caused by tunnel construction works, landslide, etc.

The technical talk was summed up by Mr Kuldeep Prakash, officiating HOI-GEOPIC, ONGC. He added that incorporating non-spatial dimension in interpretation of the data will definitely provide more realistic representation of sub-surface information. Mr Kunal Niyogi, GM(GP), KDMIPE, ONGC expressed his satisfaction in imparting knowledge continually to its members and geoscientists fraternity through lectures and workshops by SPG India.



Technical Talk by Dr. Jung Ho Kim, SEG 2011 Honorary Lecturer, South & East Asia