

Workshop on HPC in Seismic Imaging

Organized by
Seismic Data Processing (SDP),
HPC-Scientific and Engineering Applications Group,
C-DAC Pune

April 28, 2023

9:00 am to 6:00 pm

Hotel Hilton Garden Inn, Hinjawadi Wakad Road, Pune – 411057

AGENDA

Time	Session	Title and Speaker
09:00-09:30		Registration
09:30-09:40	Inaugural Session	Welcome Address by Ms. Richa Rastogi , Associate Director, C-DAC Pune
09:40-09:50		Address by Shri. E. Magesh , Director General, C-DAC
09:50-10:00		Address by Col. A. K. Nath (Retd.) , Executive Director, C-DAC Pune
10:00-10:10		Address by Chief Guest - Shri. Subhash Chand , GM (GP-S), GEOPIC, ONGC
10:10-10:20		Address by Smt. Sunita Verma , Group Coordinator, R&D in IT, MeitY
10:20-10:30		Workshop Overview by Ms. Richa Rastogi , Associate Director, C-DAC Pune
Session 1: Presentations (Session Chair - Dr. V. K. Gahalaut)		
10:30-11:00	Keynote Address	Advancements and future challenges of Seismic imaging - Shri. Saheb Ghosh , Senior Geophysicist, GEOPIC ONGC
11:00-11:15		<i>Tea Break</i>
11:15-11:35	Eminent Speakers	Fold-Thrust Belt: An Unconquered Horizon - Shri. Subrata Singha , Superintending Geophysicist, Oil India Limited (OIL)
11:35-11:55		Pseudo Well Stochastic Seismic Inversion - Dr. Ashok Yadav , Unit lead Geophysicist/Vice President, Head of Geophysics, Reliance Industries Limited.
11:55-12:15		Seismic Prospecting for Coal/CBM Exploration: India - Dr. Nimisha Vedanti , Senior Principal Scientist, Shallow Seismic Group, CSIR-NGRI
12:15-12:35		E & P Regimes in Oil Industry - Shri. Sunil Kumar Chaudhary , Head of Geophysical Survey Department, DGH

12:35-12:55	Eminent Speakers	Emergence of Digital in Global E&P Industry - Shri. Promod Painuly , Professor, UPES, Dehradun
12:55-13:15		Microseismic Imaging Techniques for Reservoir Monitoring - Dr. Suhas Phadke , Geophysicist Consultant, C-DAC Pune
13:15-14:15	<i>Lunch Break</i>	
Session 2: Presentations (Session Chair - Shri. S. A. Kumar)		
14:15-14:35	Eminent Speakers	HPC infrastructure and indigenous hardware development - Shri. Sanjay Wandekar , Senior Director, C-DAC Pune
14:35-14:55		Emerging Industry Grade Exascale Infrastructure of India - Dr. Hemant Darbari , Mission Director, NSM
14:55-15:15		SeisRTM: A HPC Software suite for Seismic Imaging to aid Oil and Gas Exploration - Ms. Richa Rastogi , Associate Director, C-DAC Pune
15:15-15:35		Application of HPC for the velocity model building towards gas hydrate exploration - Dr. Pawan Dewangan , Senior Principal Scientist, NIO, Goa
15:35-15:55		Aspiration to be self-reliant in Exploration Seismic - Dr. Satish Kumar Sinha , Professor, RGIPT, Amethi
15:55-16:15		Interactive Seismic Full Waveform Inversion: An Introduction and Demonstration – Dr. Pawan Bhardwaj , Assistant Professor, IISc, Bangalore
16:15-16:30	<i>Tea Break</i>	
Session 3: Panel Discussion (Session Chair - Dr. Rajib Kumar Sinharay)		
16:30-17:00	Panel Discussion	Way forward for Indigenous Seismic Software development in India and availability of required HPC
17:00-17:10		Vote of Thanks by Ms. Richa Rastogi , Associate Director, C-DAC, Pune
17:10-18:00	<i>Refreshments</i>	