Authors' Biography

Brajesh Das

Shri Brajesh Das graduated from LN Mithila University with distinction in Mathematics and post graduated in Applied Geophysics from Indian School of Mines, Dhanbad in the year 1978. Mr. Das joined Rajasthan Ground Water Board and contributed in finding the reservoir in Bharatpur Bird Sanctuary. After three years of service in Board, he joined ONGC and worked for 12 years in field crews for carrying out Gravity, Magnetic Seismic 2D/3D Surveys. Since last 18 years, he is associated with processing of seismic data at various processing centres of ONGC using different softwares viz. SDS, Geovector/Geocluster, Promax, Geodepth and Thrustline. He has experience of working in Western onshore, offshore and Assam- Arakan basin of India and has interest in processing of long-offset data.

Dhananjay Kumar

Dhananjay Kumar is a geophysicist in Chevron USA Inc based in Houston. He is also the president of SPG North American Chapter. His research interest includes seismic modeling and inversion, rock physics, 4D seismic, reservoir properties prediction from seismic, microseismic data analysis, shale gas, and gas hydrates. Dhananjay received his BS in Geological Sciences in 1998 and an MS in Exploration Geophysics in 2000, both from Indian Institute of Technology Kharagpur and a PhD in Geophysics in 2005 from the University of Texas at Austin. He is the Assistant Guest Editor of the December 2011 issue of Geohorizons. He is an active member of the SEG, AGU and GSH.

G. M. Hoversten

G. M. Hoversten received his Ph.D. from UC Berkeley in Engineering Geoscience in 1981, followed by 2 years as a research scientist in numerical algorithm development within the same group. In 1983 he joined Sohio Petroleum and later British Petroleum, where he worked in both seismic and non-seismic methods in exploration. In 1993 he re-joined the Engineering Geoscience group at UC Berkeley as a research geophysicist primarily concerned with the integration of seismic and non-seismic methods in petroleum exploration. In 1998 he joined Lawrence Berkeley National Laboratory as a staff scientist. In 2005 he joined Chevron Exploration Technology Company. Current research projects include 1) the use of electromagnetic data in exploration and production, 2) joint inversion of seismic and electromagnetic data for reservoir description, 3) geophysical monitoring techniques for the geologic sequestration of CO2 and 4) new technology in shale gas exploration.

Hemant Dixit

Hemant Graduated in 2002 with an M.Tech. in Exploration Geophysics (Applied Geophysics) from the Indian Institute of Technology, in Roorkee, India. Hemant has nine plus years of experience working as an interpretation geophysicist. He has applied many new and exciting technologies to a great range of basins in India, Europe and the Far East, developing an important depth of experience. His core expertise lies in the integration of Seismic Petrophysics and Rock Physics, together with the successful application of inversion technology for reservoir evaluation and assessment. Currently based in Mumbai, Hemant is managing Seismic Reservoir Characterization services for HRSS in India and also serving as a member in editorial team of Geohorizons magazine published by SPG-India.

K M Shukla

Mr. K M Shukla is a professional geophysicist and has done M.Sc. and M.B.A. (Finance). He is recipient of First SPG Gold medal (1996), Chairmen Awards (1999), Director (E) Award (2000) for best technical paper. He has authored number of technical papers and articles. He has vast experience in Seismic data acquisition, interpretation and monitoring/evaluation/recognition of hydrocarbon prospects, Basement exploration and sequential stratigraphy for Indian basins.

He is working in KDMIPE, ONGC Ltd. for exploration of Un-conventional gas plays from Basin Centred Gas, Shale gas and Gas hydrate in India. Presently he is also holding responsibility of Secretary for Society of Petroleum Geophysicist-India and Country Representative (INDIA) on the SEG Global Affairs Committee for the year 2010-2012 of SEG USA.

Kyle Spikes

Kyle Spikes is an assistant professor of exploration geophysics at the University of Texas at Austin. His interests primarily involve the integration of geologic information with quantitative tools for seismic reservoir and basin characterization. This area of research includes both forward and inverse problems that combine rock physics, stochastic geologic modeling, and seismic-attribute analysis. Current projects with students include studies in the Haynesville, Marcellus, Woodford, and Bakken Shales, as well as CO_2 sequestration monitoring of the Cranfield site in Mississippi.

Peter M. Duncan

Peter M. Duncan was founding President of MicroSeismic, Inc. a Houston based geophysical service company where he now serves as Executive Chairman. He holds a Ph.D. in Geophysics from the University of Toronto. He began his career as an exploration geophysicist with Shell Canada before joining Digicon Geophysical, first in Calgary then in Houston. In 1987 he helped Digicon found ExploiTechInc, an exploration and production consultancy. He was named President of ExploiTech when it became a subsidiary of Landmark Graphics in 1989. In 1992 he was one of 3 founders of 3DX Technologies Inc., an independent oil and gas exploration company where he served as Vice President and Chief Geophysicist. Duncan was 2003-04 President of the Society of Exploration Geophysicists (SEG). Duncan was the Fall 2008 SEG/AAPG Distinguished Lecturer speaking on the subject of passive seismic at 45 venues around the world. He is an Honorary Member of SEG, the Canadian Society of Exploration Geophysicists (CSEG), the Geophysical Society of Houston (GSH) and the European Association of Geoscientists and Engineers (EAGE). He received the Enterprise Champion Award from the Houston Business Journal in 2010 and the World Oil Innovative Thinker Award in 2011.

Pinaki Basu

Shri. Pinaki Basu received his M.Sc.Tech. Applied Geology degree from Indian School of Mines, Dhanbad, in the year 1999. He began his career in the Oil Industry as an Operational Geologist in ONGC, a National E&P Company in 1999 and had served at Ankleshwar in Gujarat and Silchar in Assam. As Operational Geologist, he had worked in Ankleshwar, Gandhar, Jambusar and other satellite fields in and around the area followed by fields in Cachar area of Assam Arakan Fold belt. Currently, he is working as Seismic interpreter and is associated with Interpretation group (INTEG) of GEOPIC, Dehradun since 2008. At INTEG, since 2008, he has interpreted seismic data of both Offshore as well as Onshore acerages of Indian and foreign Basins. His current interest focus on 3D seismic interpretation of Deepwater provinces and associated systems, Seismo-Geological modeling and rift associated tectonics.

Puja Prakash

Mrs. Puja Prakash completed her post-graduation in Applied Geophysics from Indian School of Mines, Dhanbad in the year 2007. She joined HPCL as a Geophysicist in 2007 and was associated with Cambay and KG basin interpretation. She is currently employed as a Geophysicist (S) in GEOPIC, Dehradun and is associated with the reservoir characterization and advanced interpretation group in INTEG. She has experience in AVO modeling and analysis, post-stack seismic inversion and extended elastic impedance inversion.

Robert H. Tatham

Bob Tatham is professor of Exploration Geophysics in the Department of Geological Sciences, Jackson School of Geosciences at the University of Texas-Austin where he holds the Shell Oil Companies Centennial Chair in Geophysics. Prior to joining the faculty at UT in 1999, he had more than 30 years of previous industry experience, including research and exploration position both a major oil company and an international geophysical contractor.

Dr. Tatham's research activities have included all aspects of seismology applied to exploration, development and production of hydrocarbons, with a focus on the interpretation and analysis of seismic data to extract rock, reservoir and fluid properties. Recent activities have expanded these efforts to include characterization of resource shales to optimize the identification of the most productive parts of the shales.

Educational background includes: BS in Physics (1967), California State Univ. Northridge; MS in Applied Geophysics (1970), Univ. of Houston and PhD in Seismology (1975), Colombia Univ., New York.

Satish Kumar Sinha

Dr. Satish Kumar Sinha is an assistant professor at Rajiv Gandhi Institute of Petroleum Technology (RGIPT) where he is currently teaching geophysical methods in exploration and formation evaluation. Prior to joining RGIPT, Dr. Sinha was with BP in Houston, USA, as a geophysicist where he worked on the world's first field test of cableless seismic technology, depth imaging surface seismic with borehole seismic, and Gulf of Mexico exploration. Dr. Sinha holds his masters and PhD in geophysics from the University of Oklahoma. While studying at Oklahoma, he worked on microseismic technologies for shale gas projects. An alumnus of IIT Kharagpur, Dr. Sinha had started his career in petroleum sector with Reliance Industries Ltd working on KG basin.

Dr. Sinha has developed a spectral decomposition technology using wavelet transform. His research interests include AVO, anisotropy, pore-pressure, formation evaluation, attribute analysis, reservoir characterization and unconventional resources.

Subhankar Basu

Shri Subhankar Basu pursued M. Sc. (Tech) Geophysics from Indian School of Mines, Dhanbad in 1987. He began his career in the Oil industry as a field geophysicist in ONGC, a National E & P Company in 1988 and served at Vadodara, Dehradun, Nazira and currently with the processing centre of ONGC, Mumbai since 2005. He has worked in Geophysical crews operating in Cambay, Himalayna Foothills, Vindhyan and Bengal basin. During his tenure at GEOPIC and SPIC he has processed 2D/3D seismic data of onshore as well as offshore Basins from India and abroad. Mr. S Basu has wide experience of seismic imaging in complex area and pre-stack merging. He has successfully improved imaging of OBC data eliminating noises in shot and receiver domain.