



M. K. Panigrahi

Smt. Ketharaju Venkata Subbamma - Sri Subba Rao Medal

Prof. M. K. Panigrahi was born in April, 1964 and had his schooling and higher education in Orissa. He graduated from Utkal University with an M.Sc. degree in Geology in the year 1986 (1985). He moved to I I T Kharagpur where he completed M.Tech. in Geochemistry and subsequently got his Ph.D. in the year 1992. After a brief stint at Jadavpur University as a Research Associate, he joined the University of Allahabad where he began his teaching career as a Lecturer. He moved to I I T Kharagpur in 1995 with a teaching position and continues to do so till date, as a Professor Since 2009. Panigrahi teaches a wide range of subjects such as Mineral Resources, Computer Applications, Modeling and Simulation of Geological processes and Mineral Exploration at undergraduate and postgraduate levels.

By training, Prof. Panigrahi is an Ore Geologist, with expertise in ore mineralogy, geochemistry of hydrothermal fluids, mineral-fluid interaction, granite metallogeny and is primarily known for his work on the Malanjkhand Copper Deposit in Central India and continues to generate information on this fascinating deposit. His expertise in fluid inclusion techniques is well known in the country. M. K. Panigrahi, with his collaborators in the Department has significantly contributed to understanding of the Sn-Nb-Ta mineralization associated with granite-pegmatites in the Bastar Craton. He has also been working in the granite-greenstone ensembles of the Eastern Dharwar Craton to understand metallogeny of gold vis-à-vis crustal evolution in the Eastern Dharwar Craton. Panigrahi is also known for his expertise on application of Raman Spectroscopy in Geology and has collaborated with a wide cross section of scientists in material characterization.

Panigrahi is one of the active persons in the field of Environmental Geology addressing problems of contamination of ground water and impact of acid mine drainage associated with mining of coal. He is also an enthusiast in Mineral Exploration and attempts to do mineral potential mapping using satellite digital image data and integration of various types of data on GIS.