Dr. Chakravarthi Vishnubhotla

Professor

M.Sc. (Tech.) Geophysics	: Andhra University, India, 1992
Ph.D. (Geophysics)	: Osmania University, India, 2006
Geophysicist	: Groundwater Department, 1993-1998
Senior Scientist	: CSIR - NGRI, 1998 - 2011
Associate Professor	: University of Hyderabad, 2011 - 2018
Professor	: University of Hyderabad, 2018 onwards

Phone: +91-40-23135331, E-mail: vces@uohyd.ernet.in Home Page

Field of Specialization:

Exploration Geophysics, Mathematical Modeling and Inversion

Research Interests:

Our group research interest includes development of new and novel interpretation strategies coupled with relevant software for automatic modeling and inversion of geophysical anomalies, geophysical field surveys for the exploration of natural resources including groundwater aquifers at different scales, high resolution shallow subsurface imaging.

Awards/Recognition (include national/international renowned awards/recognition)

Recipient of CSIR Young Scientist Award – 2002
Gold Medal of Indian Geophysical Union – 2005
National Mineral Award - 2007

Editorial Services

Associate Editor, Arabian Journal of Geosciences (Springer)
Editorial Board, Journal of Geophysics (Association of Exploration Geophysicists)

Selected Publications (maximum 5)

- Ramamma, B., Mallesh, K., Chakravarthi, V., 2021, 3D Spatial Domain Gravity Inversion with Growing Multiple Polygonal Cross-sections and Exponential Mass Density Contrast, Journal of Earth System Science (In press).

- Chakravarthi, V., 2020, Geodesy, Physical, Book Chapter in Encyclopedia of Solid Earth Geophysics (II Edition), Springer, https://doi.org/10.1007/978-3-030-10475-7_227-1.

- Mallesh, K., Chakravarthi, V., Ramamma, B., 2019, 3D Gravity Analysis in Spatial Domain: Model Simulation by Multiple Polygonal Cross-Sections coupled with Exponential Density Contrast, Pure and Applied Geophysics, 176(6), 2497-2511.

- Reshma, M. R., Partha Sarathi Roy, Chakravarthi, V., Sanjay, J., Joshi, P. K., 2018, Long-term land use and land cover changes (1920–2015) in Eastern Ghats, India: Pattern of dynamics and challenges in plant species conservation, Ecological Indicators, 85, 21-36.

- Chakravarthi, V., Mallesh, K., Ramamma, B., 2017, Basement depths estimation from gravity anomalies: Two 2.5D approaches coupled with exponential density contrast model, Journal of Geophysics and Engineering, 20, 303-315.