

CURRICULUM VITAE

Dr. DEEPAK K. AGARWAL

Project Scientist – I

Marine Minerals Section

Marine Geoscience and Exploration Group

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Area of Research

- Geochemistry and isotope geochemistry.
- Geochemical exploration of hydrothermal sulphides.
- Sulphide mineralization processes.
- Genetic processes of spherule formation.
- Redox Evolution of the Earth.

EDUCATION

2014 - 2019, Ph.D. in Geology

CSIR-National Geophysical Research Institute/ Osmania University, Hyderabad

2007 – 2012, 5 Year Integrated BS-MS Dual Degree in Geological Sciences

Indian Institute for Science Education and Research, IISER-Kolkata

RESEARCH EXPERIENCE

Project Scientist, since July-2016, National Centre for Polar and Ocean Research, Goa

Senior Research Fellow, Nov-2015 to June-2016, National Geophysical Research Institute, Hyderabad

Junior Research Fellow, Nov-2013 to Oct-2015, National Geophysical Research Institute, Hyderabad

Project Assistant, Aug-2012 to July-2013, National Geophysical Research Institute, Hyderabad

AWARDS

- 2013-2016 – CSIR-(JRF-SRF) fellowship for pursuing Ph.D., Council of Scientific and Industrial Research, Ministry of Science and Technology, Govt. of India.
- 2007-2012 – INSPIRE fellow award for pursuing 5-yrs BS-MS Dual Degree, Department of Science & Technology, Ministry of Science and Technology, Govt. of India.

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ACHIVEMENTS

- 2012 – All India Rank 28 in National Eligibility Test (NET) in Earth Science.
- 2012 – All India Rank 158 in Graduate Aptitude Test in Engineering (GATE) in Geology.
- 2007 – Qualified Indian Institute of Technology – Joint Entrance Exam (IIT-JEE) 2007.

PUBLICATIONS

- **Agarwal, D.K.**, Sreenivas, B., 2020. An appraisal of uranium deposits of India and their style of deposition with reference to the Paleoproterozoic great oxidation event. International Geology Review. 1-14. <https://doi.org/10.1080/00206814.2020.1728583>
- **Agarwal, D.K.**, Roy, P., Prakash, L.S., Kurian, P.J., 2020. Hydrothermal signatures in sediments from eastern Southwest Indian Ridge 63°E to 68°E. Marine Chemistry. Vol. 218, 103732. <https://doi.org/10.1016/j.marchem.2019.103732>
- **Agarwal, D.K.**, Kurian P.J., 2022. Recovery of hydrothermal wustite-magnetite spherules from Central Indian Ridge, Indian Ocean. Nature Scientific Report, Vol. 12, 6811. <https://doi.org/10.1038/s41598-022-10756-1>
- Kurian, P.J., Rajan, S., **Agarwal, D.K.**, Linsy, P., 2022. Indian Ocean Ridge System and Seafloor Hydrothermal Activity. J Geol Soc India. Vol. 98, 155-164. <https://doi.org/10.1007/s12594-022-1951-z>

CONFERENCE PROCEEDINGS

Poster Presentation

- Iron isotope fractionation during ore genetic processes: A new exploration tool. At 49th Research Council meeting, CSIR - NGRI, Hyderabad (04/10/2013).
- Carbon and Oxygen Isotope Geochemistry of Uranium hosting dolomites of the Vempalle Formation, Cuddapah Supergroup, Southern India. At 51st Research Council meeting, CSIR - NGRI, Hyderabad (23/01/2015).
- Geochemistry of marine sediments from South-West Indian ridge 63°E to 68°E: Implications for hydrothermal activity. At Inter-Ridge Conference, CSIR-NIO, Goa (15/11/2018).

Accepted Abstracts

- Exploration of polymetallic sulfide deposits in the Eastern SWIR: Sediment geochemistry evidence. World Ocean Science Congress, NIOT, Chennai, 2024.
- Geochemistry of sedimentary rock units of Vempalle formation, Cuddapah Supergroup, Paleoproterozoic: Implications on uranium mineralization. International Geological Congress, Delhi, 2020.
- Morphology and mineral chemistry of spherules from Central Indian Ridge: Implications on linkage to hydrothermal processes. International Geological Congress, Delhi, 2020.
- Influence of changes in the Provenance on the Uranium mineralization in the lower Paleoproterozoic Cuddapah Supergroup, Southern India: Geochemical Evidences. Goldschmidt Conference, Yokohama, Japan (June/2016).