



## Dr. Aresh Kumar Maji, W.B.E.S

M. Sc., M. Tech., Ph. D (IIT, Kharagpur)

Associate Professor of Geology

*[Joined W.B.E.S in 1999 in Durgapur Govt. College; served more than two years as Officer-in-Charge, KJRGDC, Mejia; previously served Geological Survey of India, Kerala Unit, Thiruvananthapuram for more than six years.]*

### Contact

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### Medal/Award/Honour

- Recipient of *N.C. Banerjee Gold Medal* of the University of Burdwan for having been placed **FIRST** in the first class in three-year Degree Course Honours Examination, 1985.

### Fellow

- Fellow of the Geological Society of India, Bangalore (F.G.S.Ind.) since 2003.

### Research Interest

- Thermodynamic application to petrological system,
- Genetic modeling on massif anorthosite,
- Field oriented petrological and geochemical problems
- Gold exploration.

### Research Project

- Completed a Major Research Project [No: 24(0268/04/EMR-II, dt 21.05.2004] on 'Metamorphic evolution of granulite-massif anorthosite complex at Saltora, Bankura District, West Bengal' funded by the **Council of Scientific and Industrial Research, New Delhi**.
- Completed a Minor Research Project [No: F.PSW-005/07-08(ERO), 21.02.2008] on 'Deformation microstructures of the Bengal anorthosite, Bankura and Puruliya Districts, West Bengal' funded by the **University Grants Commission, ERO, Kolkata**.

### Significant Research Outcomes

- Discovery of unusually high HFSE and REE-enriched ferrodiorite from Turkel anorthosite complex in Eastern Ghats Mobile Belt.
- First report of Meso-Neoproterozoic polyphase prograde metamorphism in the CGC.
- Discovery of Eastern Indian Tectonic Zone (EITZ).
- Delineation of primary gold occurrence in Attapadi Valley, Kerala.

### Publications

- **Maji, A. K.**, Patra, A. and Ghosh, P (2010) An overview on geochemistry of Proterozoic massif-type anorthosites and related rocks, **Journal of Earth System Sciences**, 119(6), 861-878.
- Chatterjee, N., Banerjee, M., Bhattacharya, A. and **Maji, A. K.** (2010) Monazite chronology, metamorphism-anatexis and tectonic relevance of the Eastern Indian Tectonic Zone, **Precambrian Research**, 179, 99-120.
- **Maji, A. K.**, Goon, S., Bhattacharya, A., Mishra, B., Mahato, S., Bernhardt, H. J. (2008) Proterozoic polyphase metamorphism in the Chhotanagpur Gneissic Complex (India), and implication for trans-continental Gondwanaland correlation, **Precambrian Research**, 162, 385-402.
- Nair, R. V. G., Nair, M. M. and **Maji, A. K.** (2005) Gold mineralisation in Kottathara prospect, Attapadi Valley, Kerala, India: a preliminary appraisal, **Gondwana Research**, 8(2), 203 - 212.
- **Maji, A. K.** and Sarkar, S. S. (2004) Quantitative genetic modelling of the Turkel anorthosite, Eastern Ghats Belt, Orissa, India, **Journal of Asian Earth Sciences**, 24, 199-211.
- Sengupta Supriya, Das Siddhartha and **Maji Aresh Kumar** (1999) Sediment Transportation and

- sorting processes in streams. **Proceedings of Indian Science Academy**, 65A(2), 167 – 206.
- **Maji, A. K.**, Bhattacharya, A. and Raith, M. (1997) The Turkel anorthosite revisited. **Proceedings of Indian Academy of Science (Earth and Planetary Sciences)**, 106, 313 – 325.
  - Nair, R.V.G. and **Maji, A. K.** (1995) Targetting gold prospects by panning and soil sampling from Attapadi valley, Kerala. **Indian Minerals**, 49(3), 131 – 142.
  - Bhattacharya, A., Mohanty, L., **Maji, A.**, Sen, S. K. and Raith, M. (1992) Non-ideal mixing in the phlogopite – annite binary: constraints from experimental data on Mg – Fe partitioning and a reformulation of the biotite – garnet thermometer. **Contribution to Mineralogy and Petrology**, 111, 87 – 93.