

PROLOY GANGULY

Affiliation : Department of Geology
Durgapur Government College
Paschim Bardhaman
West Bengal 713214

Current position : Assistant professor of Geology

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PERSONAL DATA

Nationality : Indian
Sex : Male
Date of Birth : 29/07/1989

EDUCATION

2007-2010 : BSc (Hons.) in Geology from University of Calcutta
2010-2012 : MSc in Applied Geology from University of Calcutta
2014-2019 : PhD from Presidency University, Calcutta

Details of Doctoral degree

Thesis Title: Tectonothermal History of the Granulites and Gneisses Around Phulbani, Odisha and its Bearing on the Evolution of the Proterozoic Eastern Ghats Belt

ACADEMIC AWARDS

Junior Research Fellowship (JRF) in **CSIR-UGC NET** examination, 2012

Associateship of **West Bengal Academy of Science and Technology (WAST)**, 2024

EMPLOYMENT DETAILS

September 2019 – till date: Working as an **assistant professor** at Department of Geology, **Durgapur Government College**, Kazi Nazrul University, Paschim Bardhaman

TEACHING AND RESEARCH EXPERIENCE

Teaching experience: Four years (September 2019 – till date) of UG and PG courses at Department of Geology, Durgapur Government College, Kazi Nazrul University, Paschim Bardhaman as an assistant Professor.

Research experience: Four years of post-PhD research experience on metamorphic petrology, geochronology and tectonic evolution of Proterozoic Eastern Ghats Belt, India.

RESEARCH PROJECT

Tectonothermal history of the high-grade rocks of Angul and Tikadpada domains and its bearing on the evolution of the northern Eastern Ghats Belt, India

Funding agency - Science and Engineering Research Board (SERB)

Principal Investigator - Dr. Proloy Ganguly

Type of project - Start-up research grant

Research grant of Rs. 31,40,040 was received for the period of Dec 2021-Dec 2023

M.SC DISSERTATION GUIDED

Completed

1. **Mili Das.** Petrography and geochemical study of metanorite and metagabbro from Angul domain, Eastern Ghats Belt, India. (2023)
2. **Srijita Dutta.** Petrography and geochemical study of charnockite and calc-silicate granulite interface from Eastern Ghats Belt, India: Implications on formation of syenite. (2023)
3. **Biswanath Ghosh.** Petrological and structural characters of high-grade rocks at and around mahanadi shear zone and its implications to the accretion of the angul and phulbani domains of the Eastern Ghats Belt. (2024)

B.SC DISSERTATION GUIDED

1. **Anasuya Samadder.** Corona formation around monazite during high-grade reworking of coarse-grained charnockite: a case study from the northern Eastern Ghats Belt, India. (2024)
2. **Prabhat Dhibar.** Metamorphic reaction and melt composition during incipient melting of hornblende in mafic granulite: a case study from the northern Eastern Ghats Belt. (2024)

PUBLICATIONS IN PEER REVIEWED JOURNALS

1. **Ganguly, P.,** Bose, S., Das, K., Torimoto, J., Ghosh, G., 2017. Origin of spinel+quartz assemblage in a Si-undersaturated ultrahigh temperature aluminous granulite and its implication for the P-T-fluid history of the Phulbani domain, Eastern Ghats Belt, India.

Journal of Petrology 58, 1941–1974. <https://doi.org/10.1093/petrology/egx078>

2. Ovung, T.N., Ray, J., Teng, X., Ghosh, B., Paul, M., **Ganguly, P.,** Sengupta, S. and Das, S., 2017. Mineralogy of the Manipur Ophiolite Belt, North East India: implications for mid-oceanic ridge and supra-subduction zone origin. *Current Science* 112, 2122-2129

3. Chatterjee, A., Das, K., Bose, S., **Ganguly, P.**, Hidaka, H., 2017. Zircon U-Pb SHRIMP and monazite EPMA U-Th-total Pb geochronology of granulites of the western boundary, Eastern Ghats Belt, India: new possibility for Neoproterozoic exhumation history. In: Dasgupta, S., Pant, N.C. (Eds.), *Crustal Evolution of India and Antarctica: The Supercontinent Connection. Geological Society, London, Special Publications* 457, 105–140. <https://doi.org/10.1144/SP457.1>
4. **Ganguly, P.**, Das, K., Bose, S., Ghosh, G., Hayasaka, Y., Hidaka, H., 2018. U-Pb zircon and U-Th-total Pb monazite ages from the Phulbani domain of the Eastern Ghats Belt, India: Time constraints on high-grade metamorphism and magmatism in the lower crust. *Precambrian Research* 316, 1–23. <https://doi.org/10.1016/j.precamres.2018.07.024>
5. **Ganguly, P.** and Chatterjee, A., 2020. Geological evolution of the northern and northwestern Eastern Ghats Belt, India from metamorphic, structural and geochronological records: An appraisal. *Journal of Mineralogical and Petrological Sciences*, doi:10.2465/jmps.190827b
6. **Ganguly, P.**, Ghosh, G., Bose, S. and Das, K., 2021. Polyphase deformation and ultrahigh temperature metamorphism of the deep continental crust: Implications for tectonic evolution of the northern Eastern Ghats Belt, India. *Journal of Structural Geology*, 143, p.104250. <https://doi.org/10.1016/j.jsg.2020.104250>
7. Ghosh, G., **Ganguly, P.**, Karmakar, S., Bose, S., Mukhopadhyay, J. and Ghosh, S., 2021. crustal-scale faults-shear zones in the Singhbhum Craton – Eastern Ghats Belt boundary region: a Mesoarchaeon – Neoproterozoic odyssey. *Lithosphere (2021) (Special 6)* <https://doi.org/10.2113/2021/9455812>
8. Bose, S., Sorcar, N., Das, K., **Ganguly, P.** and Mukherjee, S., 2022. Pulsed tectonic evolution in long-lived orogenic belts: an example from the Eastern Ghats Belt, India. *Precambrian Research*, 369. p. 106522. <https://doi.org/10.1016/j.precamres.2021.106522>
9. Banerjee, A., **Ganguly, P.**, Das, K., Sorcar, N., Bose, S. 2023. Contrasting Styles of Lower Crustal Metamorphism from a Granulite Suite of Rocks from Angul, Eastern Ghats Belt, India: Implications for the India–Antarctica Correlation. *Journal of Petrology* 64, <https://doi.org/10.1093/petrology/egad065>

CONFERENCE ABSTRACTS

1. **Proloy Ganguly**, Sankar Bose, Kaushik Das and Gautam Ghosh, 2016. "Field, microstructural and Electron Backscattered Diffraction study of shear zone rocks from Phulbani, Odisha, Eastern Ghats Belt, India". DEVELOPMENTS IN GEOSCIENCES IN THE PAST DECADE - EMERGING TRENDS FOR THE FUTURE & IMPACT ON SOCIETY ANNUAL GENERAL MEETING OF THE GEOLOGICAL SOCIETY OF INDIA.
2. Suranjan Ghosh, Gautam Ghosh, **Proloy Ganguly**, Sankar Bose and Kaushik Das, 2016. "Geological significance of the presence of multiple generations of pseudotachylites in Ranipathar Shear Zone, Phulbani domain, Eastern Ghats Belt". DEVELOPMENTS IN GEOSCIENCES IN THE PAST DECADE - EMERGING TRENDS FOR THE FUTURE & IMPACT ON SOCIETY ANNUAL GENERAL MEETING OF THE GEOLOGICAL SOCIETY OF INDIA.

3. Kaushik Das, Naotaka Tomioka, **Proloy Ganguly**, Gautam Ghosh, Sankar Bose, 2017. Deformation microstructure and chemical zoning in cataclastic garnet porphyroclast of a pseudotachylite-ultramylonite granitic gneiss from Eastern Ghats, India. JAPAN ASSOCIATION OF MINERALOGICAL SCIENCES ANNUAL MEETING.
4. **Proloy Ganguly**, Gautam Ghosh, Sankar Bose and Kaushik Das, 2018. "Complex deformation patterns in Crustal-scale Shear Zones – A case study from the Ranipathar Shear Zone, eastern India". CONFERENCE ON ROCK DEFORMATION AND STRUCTURE (RDS-V).
5. **Proloy Ganguly**, Sankar Bose, Kaushik Das and Gautam Ghosh, 2019. "Styles of tectonothermal and tectonometamorphic processes in the Proterozoic: Insights from the northern part of the Eastern Ghats Belt, India". PROGRESS AND PERSPECTIVE OF THE STUDIES ON THE CRUSTAL EVOLUTION OF THE INDIA PENINSULA FROM ARCHEAN TO THE PRESENT BY GEOCHEMICAL, CHRONOLOGICAL AND GEOLOGICAL APPROACHES Conducted by JSPS-DST Japan-India Forum for advanced Study.
6. Banerjee, A., **Ganguly, P.**, Bose, S., Das, K., Sorcar, N., 2022 Two-stage metamorphism of the Angul-Tikarpada area, Eastern Ghats Belt and its implications on the India-East Antarctica correlation-Goldschmidt Conference, 2022.
<https://doi.org/10.46427/gold2022.8912>
7. **Ganguly, P.**, Bose, S., Das, K., 2022. Metasomatic Transformation and Deformation at the Calc-silicate Granulite and Charnockite Interface in the Phulbani Area of the Eastern Ghats Province, India: Implications on the Fluid Movement and Strain Localization in the Lower Crust. American Geophysical Union Fall meeting, 2022.
8. **Ganguly, P.**, Banerjee, A., Bose, S., Sorcar, N., Mukherjee, S., Das, K. 2024. Petrology and geochemistry of olivine-bearing metanorite and gabbro from the Angul domain: Insights to the mafic magmatism at the northern Eastern Ghats Belt, India. Goldschmidt Conference, 2024.

DECLARATION

I hereby declare that all the above information is correct and accurate.

Proloy Ganguly