

# Dr. SARADEE SENGUPTA

**Contact:** to.saradee@gmail.com

**Qualification:** Ph.D.

**Designation:** Assistant Professor

**Teaching Experience (in years):** UG: 5 Years PG: 5 Years

**Research Experience (in years):** 10

**Date of Joining Present Institution:** 29.05.2015



**Examinations cleared:** NET-CSIR-UGC

## Specialization/Research Interest:

The major area of my research is to study vertebrate fossils and the associated geological records to understand how evolution worked in deep time, and how the vertebrates adjusted themselves to survive in a dynamically changing planet. One of the major faunal transition in Earth's history occurred during and after the great Permo-Triassic (P-T) mass extinction event. My research is mainly focused on the evolution of Permian-Triassic terrestrial vertebrates of India especially on basal archosauromorphs, a group of diapsid amniotes, to shed light on the macro-evolutionary radiations and faunal turnover of terrestrial vertebrates around the P-T boundary in India.

## Awards & Recognitions

- Awarded National Scholarship for securing 47th rank in Madhyamik Pariksha(10+2) (2003).
- Stood First Class Second in M.Sc.- Applied Geology in University of Calcutta (2010).
- Awarded ISI JRF fellowship by Indian Statistical Institute, Kolkata (2010).
- Eligible for Lectureship (NET) by Joint CSIR-UGC (2011).
- Qualified Research Eligibility Test (RET) of the Department of Geology, University of Calcutta (2011).
- Awarded N. N. Chatterjee Memorial Book Grant by The Geological, Mining and Metallurgical Society of India (2014).
- Awarded IPA-IPC grant by International Palaeontological Congress (2014).

## Courses taught

B.Sc Honours (Geology)	M.Sc (Applied Geology)
Earth System Science (Theory & Practical) Palaeontology (Theory) Stratigraphic Principles and Indian Stratigraphy (Theory & Practical) Evolution of life through ages (Theory & Practical)	Palaeontology (Theory & Practical) Advanced Stratigraphy (Theory) Elective-Vertebrate Palaeontology (Theory & Practical)

## Online Mode of Teaching

Acquainted with taking online classes and delivering lectures on various online platforms (like TeamLink, Google Classroom, Hangout meet and Zoom). Course materials were sent through email. Moreover, have been interacting with students periodically to follow up on their progress with the curriculum and have tried to resolve their doubts, if any.

## Publications

### Journals:

1. **Sengupta, S.\***, Sengupta, D.P. and Bandyopadhyay, S. (2016) Stratigraphy of the Upper Gondwana formations around Sohagpur: Western part of the Satpura Gondwana Basin, Central India. *Journal Geological Society of India* 87, 503-519.
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(10), 2122-2129.
3. **Sengupta, S\***., Ezcurra, M.D. and Bandyopadhyay, S. (2017) A new horned and long-necked herbivorous stem-archosaur from the Middle Triassic of India. *Scientific Reports* 7(8336), DOI:10.1038/s41598-017-08658-8.  
**Press Release:** <https://www.theguardian.com/science/2017/dec/28/top-fossil-discoveries-of-2017>  
<https://www.thehindu.com/sci-tech/science/horned-reptiles-predate-horned-dinosaurs-by-100-million-years/article19565783.ece>
4. **Sengupta, S\***. (2018) Fusion of cervical vertebrae from a basal archosauromorph from the Middle Triassic Denwa Formation, Satpura Gondwana Basin, India. *International Journal of Palaeopathology* 20, 80-84.  
**Press Release:** <https://www.telegraphindia.com/calcutta/spondylitis-clue-245-million-years-ago-207001>

### Conference Proceedings:

- Sengupta, S\***. (2014), New Triassic Horned Archosaurs from the Denwa Formation, Satpura Gondwana Basin, Central India. (abs.), 4th International Palaeontological Congress, Mendoza, Argentina, 616.
- Sengupta, S\***. and Bandyopadhyay, S. (2015), Non-marine Middle Triassic Archosaurs: an Indian scenario. (abs.), International Conference on Current perspectives and emerging issues in Gondwana evolution, Lucknow, India, 89.
- Sengupta, D.P., Bandyopadhyay, S. and **Sengupta, S\***. (2015), Significance of Triassic non-marine vertebrate diversity in Indian context. (abs.), International Conference on Current perspectives and emerging issues in Gondwana evolution, Lucknow, India, 86.
- Sengupta, S\***. (2018), Difficulties Experienced by a fresh Ph.D. while carrying out Palaeontological Research in India. (abs.), Brainstorming meet on “Rejuvenating Indian Palaeontology and Establishment of National Earth Museum”, Delhi, India, 40.
- Sengupta, S\***. (2020), The Permian-Triassic Boundary (PTB) in the Raniganj Basin, West Bengal: An Appraisal (abs.), Deep Time Biodiversity of Bengal, Indian Statistical Institute, Kolkata.

## Guidance of M.Sc. Projects

1. Bidisha Dutta (2016-2017, *Durgapur Government College*), Vertebrate Faunal Turnover at the Permian-Triassic Boundary in India, (**Guide: Dr. Saradee Sengupta**)
2. Neha Singh (2016-2017, *Durgapur Government College*), Distribution and Relationships of the members of the Clade Allokotosauria (Diapsida: Archosauromorpha) with Special Reference to the Indian Allokotosaur *Pamelaria Dolichotrachela*, (**Guide: Dr. Saradee Sengupta**)
3. Mallika Mondal (2019-2020, *Durgapur Government College*), Muscle Reconstruction of Appendicular Skeleton of a Basal Archosaur (Archosauromorpha: Allokotosauria) from the Middle Triassic Denwa Formation, Satpura Basin, India, (**Guide: Dr. Saradee Sengupta**)
4. Priya Maiti (2020-2021) topic yet to be decided, (**Guide: Dr. Saradee Sengupta**)
5. Aditi Samanta (2020-2021) topic yet to be decided, (**Guide: Dr. Saradee Sengupta**)

## Invited Lectures

1. Invited Lecture on “*Difficulties Experienced by a Fresh Ph.D. While Carrying Out Palaeontological Research in India* (**Dr. Saradee Sengupta**)”, in an international conference on “Rejuvenating Indian Palaeontology and Establishment of National Earth Museum” held on Sept. 2018 organized by Delhi University and INSA, Delhi.
2. Invited Lecture on “*The Permian-Triassic Boundary (PTB) in the Raniganj Basin, West Bengal: An Appraisal* (**Dr. Saradee Sengupta**)”, in an international symposium on “Deep Time Biodiversity of Bengal” held on Jan. 2020 organized by Indian Statistical Institute, Kolkata.

## Paper Presentation in seminar/conference/symposium/workshop

1. Oral Presentation on “*New Triassic Horned Archosaurs from the Denwa Formation, Satpura Gondwana Basin, Central India.* (**Dr. Saradee Sengupta**)”, 4th International Palaeontological Congress, Mendoza, Argentina.
2. Oral Presentation on “*Non-marine Middle Triassic Archosaurs: an Indian scenario* (**Dr. Saradee Sengupta**)”, International Conference on Current perspectives and emerging issues in Gondwana evolution, Lucknow, India.
3. Oral Presentation on “*Significance of Triassic non-marine vertebrate diversity in Indian context.* (**Dr. Saradee Sengupta**)”, International Conference on Current perspectives and emerging issues in Gondwana evolution, Lucknow, India.

## Participation in faculty development programmes

1. Orientation Program from 09/07/2019 to 29/07/2019 (**Dr. Saradee Sengupta**) organized by UGC-Human Resource Development Centre (HRDC) (formerly UGC – Academic Staff College), University of North Bengal.
2. Refresher Course on “Ethics, Value, Culture and Society” from 06/09/2019 to 19/09/2019 (**Dr. Saradee Sengupta**) organized by UGC-Human Resource Development Centre (HRDC) (formerly UGC – Academic Staff College), University of Burdwan.

## **Organization of events (Durgapur Government College)**

Acted as one of the Joint Coordinators of the Finishing School organized by the Department of Geology in the year 2017 for grooming of the postgraduate students for different national level competitive examinations on 2017.

## **Participation in committees of Durgapur Government College since 2017**

1. RUSA PMU Unit (, Member-2018-19, 2019-20)
2. Students Welfare and Interdisciplinary sub-committee (Member-2019-20)
3. Even semester examination cell (University Examination) (Jt. Convener, 4<sup>th</sup> semester examination; Member, 2<sup>nd</sup> and 6<sup>th</sup> semester examinations-2019-20)
4. University exam sub-committee (Member-2018-19)
5. Research Advisory sub-committee (Member-2018-19)
6. College Journal & Publication sub-committee (Member-2018-19)
7. Quarter sub-committee (Member-2017-18, 2018-19)