

RESUME



Name: DR. PRADIP SAMANTA, M.Sc., Ph.D. Designation: Associate Professor

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Date of Birth: 26/12/1975

Nationality: Indian

ACADEMIC QUALIFICATIONS

M.Sc. Ph.D. Jadavpur University in Sedimentology (2009)

ADDITIONAL QUALIFICATION

- Qualified CSIR-UGC-Lectureship, December, 2001 in Earth, Ocean, Atmospheric and Planetary Science
- Qualified CSIR-JRF, December, 2002 in Earth, Ocean, Atmospheric and Planetary Science

TEACHING INTEREST AND EXPERIENCES

Teaching Interest: Sedimentology, Sequence Stratigraphy, Basin Analysis

Current teaching involvement and experience (from 07.05.2010 – till date):

Sl. No.	Title of course	Level (UG/PG)
1	Sedimentology	UG-II and PG-I
2	Hydrogeology	UG-II and PG- II
3	Phanerozoic Stratigraphy	UG III and PG II
4	Basin Evolution, Sequence Stratigraphy	PG-II

Working Experiences:

Sl. No.	Position Held	Name of the Institute	From	To
1	Associate Professor	University of North Bengal	14.09.2022	Till date
2	Assistant Professor	University of North Bengal	27.02.2018	Till date
3	Assistant Professor	Durgapur Govt. College, Govt. of West Bengal	07.05.2010	26.02.2018
4	Geologist and Officer-in-charge (Ex-officio)	State Water Investigation Directorate, Govt. of West Bengal	23.12.2008	06.05.2010

Ph.D./PG Dissertation Supervision:

Course	No of students completed	No of students onging	Co-supervisor (if any)
Ph.D.	NIL	3	1 (Jadavpur University)
PG Dissertation	21	Yet to know	NO

Course Attended:

Name of the Course/Summer School	Place	Duration	Sponsoring Agency
Winter School	Jadavpur University	10.12.2002 – 30.12.2002	DST
Winter School	Jadavpur University	15.12.2004 – 29.12.2004	DST
Orientation Course	University of Burdwan	04.07.2014 – 31.07.2014	UGC
Refresher Course	Jadavpur University	25.08.2014 – 13.09.2014	UGC
Short Term Course	University of North Bengal	26.11.2020 – 02.12.2020	UGC

ONGOING/COMPLETED RESEARCH PROJECTS:

Title of the Project	Funding Agency	Amount	Duration
Sedimentation and sequence building of the Neoproterozoic Jodhpur Group, Rajasthan.	DST (Fast Track); Young Scientist, Govt. of India	Rs. 18,55000/-	2012-2015 (Completed)
Proterozoic biosedimentology in the light of appraisal of potential microbial mat structures in the Vindhyan siliciclastics, Central India.	UGC-Minor, Govt. of India	Rs. 1,57,500/-	2011-2013 (Completed)
Sedimentology and sequence stratigraphy in the lower two Members, viz., Kendur Conglomerate and Cave Temple Arenite, of the Badami Group, Kaladgi Supergroup, Karnataka with special emphasis on the control of Uranium mineralization.	UGC-Start-up, Govt. of India	Rs. 10,00,000/-	2019-2022 (Extended)
Distinctiveness of the Precambrian sedimentation and sequence building: Case studies from the selected Indian Proterozoic basins	NBU Research Fund	Rs. 150,000/-	2019-2020 (Completed)
Biosedimentology of the Neoproterozoic Sonia Sandstone, Rajasthan, India	NBU Research Fund	Rs. 150,000/-	2020-2021 (Completed)
Palaeoenvironmental and palaeoclimatic analysis of the terminal Proterozoic Jodhpur Group, Rajasthan, India	NBU Research Fund	Rs. 150,000/-	2021-2022 (Completed)
Characteristics of Neoproterozoic Ocean, Atmosphere and Biosphere: Investigations on the Bilara Limestone, Marwar Basin, Rajasthan, India	NBU Research Fund	Rs. 150,000/-	2022- 2023 (Completed)

LIST OF PUBLICATIONS

Journal publications

1. Saha, B., Samanta, P., Mukhopadhyay, S. Patrick G. Eriksson, P.G., 2023. Effects of transgression on sedimentation system vis-à-vis coastal erosion on the Chandipur coast, Odisha, India. *Journal Indian Journal of Sedimentologists*, 40(1), 5 -19. <https://doi.org/10.51710/jias.v40i1.276>
2. Mukhopadhyay, S., and **Samanta, P.**, 2022. The controlling factors of lateral variability in coastal marine sequence building pattern. *Journal of Earth System Science*, Springer, 131 (4), 245. <https://doi.org/10.1007/s12040-022-01987-x>
3. **Samanta, P.**, Mukhopadhyay, S., Sen, A., Ghosh, N., Bumby, A., 2022. Precambrian fans on opposite margins of an intracratonic rift basin; palaeogeography, palaeoclimate and provenance: Neoproterozoic Badami Group, Karnataka, India. *Sedimentary Geology*, 428, 106050. doi.org/10.1016/j.sedgeo.2021.106050
4. Mukhopadhyay, S., Sen, A., Koley, A., **Samanta, P.**, 2021. Evaluating the formative and shape-controlled dispersive mechanisms of mud balls in a low-energy coastal setting: New insights. *Geological Journal*, 1-25, doi.org/10.1002/gj.4310
5. **Samanta, P.**, Mukhopadhyay, S., and Eriksson, P.G., 2016. Forced regressive wedge in the Mesoproterozoic Koldaha Shale, Vindhyan basin, Son Valley, central India. *Journal of Marine and Petroleum Geology*, 71, 329 – 343. (I.F. 3.281); ISSN: 0264-8172; doi.org/10.1016/j.marpetgeo.2016.01.001
6. **Samanta, P.**, Mukhopadhyay, S., Sarkar, S. and Eriksson, P.G., 2015. Neoproterozoic substrate condition *vis-à-vis* microbial mat structure and its implications: Sonia Sandstone, Rajasthan, India. *Journal of Asian Earth Science*, 106, 186-196. (I.F. 2.866); ISSN: 1367-9120; doi.org/10.1016/j.jseaes.2015.03.013
7. Sarkar, S., Banerjee, S., **Samanta, P.**, Chakraborty, N, Chakraborty, P.P., Mukhopadhyay S., and Singh, A.K., 2014. Microbial mat records in siliciclastic rocks: Examples from Four Indian Proterozoic basins and their modern equivalents in Gulf of Cambay. *Journal of Asian Earth Science*, 91, 362-377. (I.F. 2.866); ISSN: 1367-9120; doi.org/10.1016/j.jseaes.2014.03.002.
8. Mukhopadhyay, S., Choudhuri, A., **Samanta P.**, Sarkar, S., Bose, P.K., 2014. Were the hydraulic parameters of Precambrian rivers different? *Journal of Asian Earth Science*, 91, 289-297. (I.F. 2.866); ISSN: 1367-9120; doi.org/10.1016/j.jseaes.2013.07.042
9. Sarkar, S., **Samanta, P.**, Mukhopadhyay, S., Bose, P.K., 2012. Stratigraphic architecture of the Sonia Fluvial interval, India in its Precambrian Context. *Precambrian Research*,

Elsevier, 214-215, 210-226. (I.F. 3.907); ISSN: 0301-9268; doi.org/10.1016/j.precamres.2012.01.001

10. Bose, P.K., Eriksson, P.G., Sarkar, S., Wright, D.T., **Samanta, P.**, Mukhopadhyay, S., Mandal, S., Banerjee, S., Altermann, W., 2012. Sedimentation patterns during the Precambrian: A unique record? *Marine and Petroleum Geology*, 33(1), 34-68, Elsevier. (I.F. 3.281); ISSN: 0264-8172; DOI: [10.1016/j.marpetgeo.2010.11.002](https://doi.org/10.1016/j.marpetgeo.2010.11.002)
11. **Samanta, P.**, Mukhopadhyay, S., Mandal, A., Sarkar, S., 2011. Microbial mat structures in profile: The Neoproterozoic Sonia Sandstone, Rajasthan, India. *Journal of Asian Earth Sciences*, 40, 542-549, Elsevier. (I.F. 2.866); ISSN: 1367-9120; doi.org/10.1016/j.jseaes.2010.10.008
12. Sarkar, S., **Samanta, P.** and Altermann, W., 2011. Setulfs, modern and ancient: Formative mechanism, preservation bias and paleoenvironmental implications. *Sedimentary Geology*, Elsevier. 238(1-2), 71-78. (I.F. 2.575); ISSN: 0037-0738; doi.org/10.1016/j.sedgeo.2011.04.003
13. Sarkar, S., Bose, P.K., **Samanta, P.**, Sengupta, P. and Eriksson., P.G., 2008. Microbial mat mediated structures in the Ediacaran Sonia Sandstone, Rajasthan, India, and their implications for Proterozoic sedimentation. *Precambrian Research*, 162, 248-263, Elsevier. (I.F. 3.907); ISSN: 0301-9268; doi.org/10.1016/j.precamres.2007.07.019
14. Sarkar, S., Banerjee, S., **Samanta, P.** and Jeevankumar, S., 2006. Microbial mat-induced sedimentary structures in siliciclastic sediments: examples from the 1.6 Ga Chorhat Sandstone, Vindhyan Supergroup, M.P. India. *Journal of Earth system Science*, 115(1), 49-60, Springer-Verlag. (I.F. 0.99); ISSN: 0253-4126; www.ias.ac.in/article/fulltext/jess/115/01/0049-0060

Book Chapter

- 1) **Samanta, P.**, Mukhopadhyay, S., Mondal, S., Sarkar, S., 2019. Controls on Cyclic Sedimentation within the Neoproterozoic Sirbu Shale, Vindhyan basin, Central India. In: *Precambrian Crustal Evolution of India: Geological and Geodynamic Perspective*, (eds.) Mondal, M.E.A., Armstrong-Altrin, J., Singh, S.P. Book Series, 271-295, Springer Publ. (ISBN: 978-3-319-89697-7); DOI: [10.1007/978-3-319-89698-4_12](https://doi.org/10.1007/978-3-319-89698-4_12)
- 2) Mukhopadhyay, S., **Samanta, P.** and Sarkar, S., 2019. Evolution of the Terrestrial succession at the base of the Neoproterozoic Badami Group, Karnataka, India. In: *Precambrian Crustal Evolution of India: Geological and Geodynamic Perspective*, (eds.) Mondal, M.E.A., Armstrong-Altrin, J., Singh, S.P. Book Series, 121-157, Springer Publ. (ISBN: 978-3-319-89697-7); DOI: [10.1007/978-3-319-89698-4_6](https://doi.org/10.1007/978-3-319-89698-4_6)
- 3) Banerjee, S., Sarkar, S., Eriksson, P.G. and **Samanta, P.**, 2010. Microbially related structures in siliciclastic resembling Ediacaran fossils: Examples from India, modern and ancient, In: *Microbial Mats: Modern and Ancient Microorganisms in Stratified Systems*,

(Ed.: J. Seckbach and A. Oren), 109-129, Springer-Verlag. (ISBN: 978-90-481-3799-2)
DOI: 10.1007/978-90-481-3799-2_5

- 4) Eriksson, P.G., S., Sarkar, Banerjee, S., Porada, H., Catuneanu, O., Bose, P.K., and **Samanta, P.**, 2010. Palaeoenvironmental context of microbial mat related structures in siliciclastic rocks: Examples from Proterozoics of India and South Africa, In: Microbial Mats: Modern and Ancient Microorganisms in Stratified Systems, (Ed.: J. Seckbach and A. Oren), 71-108; Springer-Verlag. (ISBN: 978-90-481-3799-2); DOI: 10.1007/978-90-481-3799-2_6

Seminar/ Conference publications

- 1) Sen, A., Mukhopadhyay, S., Stueeken, E., Samanta, P., and Baidya, A.S., 2022. Biogenic Sulphide Mineralization and Incipient Uranium Enrichment within Microbially Induced Neoproterozoic Marine Sediments, Cave-Temple Arenite Member, Badami Group, Karnataka, India. American Geophysical Union (AGU) international Annual Meeting, (Accepted).
- 2) Rachita Ghosh, Arunavo Sen, Soumik Mukhopadhyay, Pradip Samanta, Prosenjit Ghosh, 2022. Understanding the environment of Early life: Divergence, and environment using stable isotope of Badami sediments, Southern India. Goldschmidt International conference (Accepted).
- 3) Sen, A., Bose, S., **Samanta, P.**, Mukhopadhyay, S., 2022. From shallow marine siliciclastics to deep water Banded Iron Formations (BIFs)- sequence architecture and paleogeographic framework along with antiquity of Archean microbial life from Kushtagi-Hungund Schist Belt (KHSB) of Eastern Dharwar Craton (EDC), India. IAS Seminar, 33p.
- 4) Sen, A., Mukhopadhyay, S., **Samanta, P.**, Ghosh, S., Bose, S., 2022. Bio-geochemical and depositional framework of siliciclastic sediments from an oxygenated Neoproterozoic epeiric shelf under warm and humid climate in the backdrop of Neoproterozoic Oxygenation Event (NOE). International Sedimentological Congress, Beijing, p. 226 – 227.
- 5) Sen, A., Mukhopadhyay, S., **Samanta, P.**, Ghosh, A. and Pal, D. C., 2021. Micro-Facies Analysis and Geochemistry of Shaley-Banded Iron Formations (S-Bifs) from Late-Archaeon Kushtagi-Hungund Schist Belt (KHSB), Karnataka, South Indian Shield (SIS). International AGU 2021 Fall Meeting (14.12.2021), on <http://essoar.org> (2022). doi.org/10.1002/essoar.10509941.1
- 6) **Samanta, P.**, Mukhopadhyay, S., Sen, A., Bhattacharya, A., Koley, A., and Basu, A., 2020. The terrestrial fan deposits in the Neoproterozoic Kerur Formation of the Badami Group, Belgaum District, Karnataka, India: Control and stratigraphic architecture. Abstract, Accepted for International Geological Congress. New Delhi.

- 7) Sen, A., Ghosh, N., Prakash, B.G., Basu, A., **Samanta, P.**, and Mukhopadhyay, S., 2020. Stratigraphic Evolution and Sequence Architectural Framework Analysis of the Western Portion of the Neoproterozoic Badami Group, Kaladgi Basin, Karnataka. Abstract, Accepted for International Geological Congress. New Delhi.
- 8) Ghosh, N., Mukhopadhyay, S., **Samanta, P.**, Sarkar, S., Prakash, B.G., Sen, A., Singh, K.T., Sarvanan, Bhan, A.K. and Verma, A.P., 2019. Depositional setting of Kerur Formation of Badami Group in south – western part of Kaladgi basin, Karnataka and its favourability for uranium menaralizattion. Abstract, National seminar on “Strategic mineral exploration for sustainable development: Emerging trends and challenges, Atomic mineral directorate for exploration and research, Department of Atomic Energy, Bengaluru, p. 87 – 88.
- 9) **Samanta, P.** and Mukhopadhyay, S., 2019. Fluvial to estuarine transition at the base of the Neoproterozoic Girbhakar Sandstone, Rajasthan, India. IAS seminar, Abstract, p. 28 – 29.
- 10) Saha, B., Mukhopadhyay, S and **Samanta, P.**, 2019. Evolution of siliciclastic shelf in the Neoproterozoic Girbhakar Sandstone, Rajasthan, India. IAS seminar, Abstract, p. 26 – 27.
- 11) Sen, A., Koley, A., **Samanta, P.** and Mukhopadhyay, S., 2019. Genesis and Orientation of Chandipore Mud Balls – A Unique Phenomenon, IAS seminar, Abstract, p. 62 – 63.
- 12) **Samanta, P.**, Mukhopadhyay, S., Bhattacharya, S., Ray Chaudhuri, S., Sarkar, T. and Goswami, S., 2017. Archaean microbial mat related structures: a pathway to the evolution of life. Abstract, Natinal Conference on “Recent advances and challenges in geochemistry, environmental and sedimentary geology”, Aligarh Mushlim University, Aligarh. p. 16 – 17.
- 13) Mukhopadhyay, S., **Samanta, P.**, Bhattacharya, S. and Ray Chaudhuri, S., Sarkar, T and Goswami, S. 2017. Sequence Architecture of the Terrestrial Interval at the Base of Bagalkot Group – Influence of Basin-Margin Faulting. Abstract, Natinal Conference on “Recent advances and challenges in geochemistry, environmental and sedimentary geology”, Aligarh Mushlim University, Aligarh. p. 96 – 97.
- 14) **Samanta, P.**, Mukhopadhyay, S., Mandal, S. and Sarkar, S., 2016. Controls on Cyclic Sedimentation within the Neoproterozoic Sirbu Shale, Vindhyan basin, Central India. Abstract, National Conference on Precambrians of India”, Bundelkhand University, Jhansi. p. 106.
- 15) Mukhopadhyay, S., **Samanta, P.**, Bhattacharya, S. and Sarkar, S., 2016. Evolution of the Terrestrial succession at the base of the Neoproterozoic Badami Group, Karnataka, India. Abstract, National Conference on Precambrians of India”, Bundelkhand University, Jhansi. p. 116.

- 16) Mukhopadhyay, S., **Samanta, P.**, Choudhuri, A., 2015. Sedimentation rate - a key factor in sequence building: case study from Kundargi Formation, Bagalkot Basin, India. Abstract Volume. 2nd International Palaeogeography Conference, Beijing, China, p. 79-80.
- 17) **Samanta, P.**, Mukhopadhyay, S., Sarkar, S., 2015. Forced regressive wedge in the Mesoproterozoic Koldaha shale, Vindhyan Basin, Son Valley, central India. Abstract Volume. 2nd International Palaeogeography Conference, Beijing, China, p. 97.
- 18) **Samanta, P.**, Mukhopadhyay, S., Chakraborty, K., 2014. Fluvial architectural element analysis in the eastern margin of the Jodhpur basin, Rajasthan. National seminar on 'Making of the Indian continent' at the Presidency University, Kolkata, West Bengal, p. 84.
- 19) **Samanta, P.** and Mukhopadhyay, S., 2013. Siliciclastic to carbonate transition in the Neoproterozoic Girbhakar Formation, Jodhpur Group, Rajasthan, India. Abstract volume, National Seminar on Modern Geological Methods and their Applications. Jadavpur University, p. 79.
- 20) **Samanta, P.**, Mukhopadhyay, S., Roy, P., Chakraborty, K. and Mondal, B., 2013. Evidence Of Mesoproterozoic Forced Regression From The Koldaha Shale, Son Valley, Vindhyan Basin, Central India. Abstract volume, National Seminar on Modern Geological Methods and their Applications. Jadavpur University, p. 53.
- 21) Mukhopadhyay, S., **Samanta, P.**, Choudhuri, A., Das, A., Chatterjee, A. and Majumder, A., 2013. Influence of sedimentation rate on sequence building trends: a case study. Abstract volume, National seminar on modern geological methods and their applications. Jadavpur university, p. 74.
- 22) **Samanta, P.**, Mukhopadhyay, S., Sarkar, S., 2008. Stratigraphic Architecture of the lower fluvial interval, Sonia Sandstone, Jodhpur. Abstract, International Conference on Geology: Indian Scenario and Global Context, ISI, Kolkata, p 95.
- 23) **Samanta, P.**, Sarkar, S., Mukhopadhyay, S. and Bose, P.K., 2007. Channel pattern, sequence-building and their implications in the basal fluvial, Neoproterozoic Sonia Sandstone, India. Abstract, International Conference on "Precambrian Sedimentation and Tectonics", IIT Bombay, Mumbai, p 35.
- 24) **Samanta, P.** and Sarkar, S., 2006. Microbial mat-mediated preservation of independent structures in sandstone: a case study in the Neoproterozoic Sonia Sandstone, Rajasthan. Abstract, UGC Seminar on "Precambrian Life: Indian Scenario", Durgapur Government College, Durgapur, West Bengal, p 10.