BIO-DATA

1. **Name: DR. PRADIP SAMANTA** **Designation:** Assistant Professor

2. **Address for Correspondence:** Department of Geology,
University of North Bengal,
Darjeeling – 734013
West Bengal, India
e-mail: samanta.pradip@gmail.com / geolps@nbu.ac.in

3. **Academic Qualifications:** **Ph.D (Jadavpur University)**

Ph.D Thesis Title	Name of the Supervisor	University	Year of Award
Proterozoic siliciclastic sedimentation and sequence building - possible role of microbial mat: Sonia Sandstone, Rajasthan, India	Prof. Subir Sarkar	Jadavpur University	2009

4. **Research Interest**: Sedimentology, Sequence stratigraphy, Microbial mat, Sediment Geochemistry

5. **Work Experiences:**

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

6. **Professional Recognition/ Award/ Prize/ Certificate, Fellowship:**

Sl. No.	Name of the Award	Awarding Agency	Year
1.	NET-LS	UGC-CSIR	2001
2.	JRF-NET	CSIR	2002
3.	Young Scientist	DST, Govt. of India	2012
4.	Member	Indian Association of Sedimentologists' (IAS)	2017

7. **Publications** ***(List of papers published in SCI Journals)***

1. **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

2. **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

3. 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

4. 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

5. 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

6. 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

7. **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

8. 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

9. 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

10. Sarkar, S., Banerjee, S., **Samanta, P.** and Jeevankumar, S., 2006. Micrbial 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

8. Books/Chapters

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

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

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

9. Seminar Proceedings:

1) **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.

2) 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 mienaralizattion. 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.

3) 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.

4) 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.

5) **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.

6) 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.

7) **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.

8) 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.

9) 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.

10) **Samanta, P.**, Mukhopadhyay, S., Sarkar, S., 2015. Forced regressive wedge in the Mesoproterozoic Kolkdaha shale, Vindhyan Basin, Son Valley, central India. Abstract Volume. 2nd International Palaeogeography Conference, Beijing, China, p. 97.

11) **Samanta**, P., Mukhopadayay, 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.

12) **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.

13) **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.

14) 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.

15) **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.
16) **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.
17) **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.

10. Ongoing/Completed Research Projects:

Title of the Project	**Funding Agency**	**Amount (Rs.)**	**Duration**
Sedimentation and sequence building of the Neoproterozoic Jodhpur Group, Rajasthan.	DST (Fast Track); Young Scientist, Govt. of India	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	1,57,500/-	2011-2013 (Completed)
Distinctiveness of the Precambrian sedimentation and sequence building: Case studies from the selected Indian Proterozoic basins	NBU Research Fund	1,50,000/-	2019-2020 (Completed)
Biosedimentology of the Neoproterozoic Sonia Sandstone, Rajasthan, India	NBU Research Fund	1,50,000/-	2020-2021 (On-going)
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 Grant, Govt. of India	10,00,000/-	2019-2021 (On-going)

11. Supervision of PG Dissertation:

No of students completed	**No of students onging**
13	-

12. Course Attended:

Name of the Course/ 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 Program	University of Burdwan	04.07.2014 – 31.07.2014	UGC
Refresher Course	Jadavpur University	25.08.2014 – 13.09.2014	UGC
Refresher Course	Jadavpur University	04.12.2018 – 24.12.2018	Science Academies
Short Term Course	University of North Bengal	26.11.2020 – 02.12.2020	UGC