

Dr. SANTOSH KUMAR PANDEY

Ph.D. (Geology)

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Honorary Assistant Professor

Physical Sciences, **AcSIR**
CSIR-HRDC Campus,
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RESEARCH INTEREST

My research work investigates the emergence of macroscopic multicellular complex eukaryotic life of the Cryogenian, Ediacaran, and Cambrian Period. Studies incorporate understanding the morphological traits, affinity, taphonomy, and ichnology of life forms representing the very first metazoans and metaphytes, encompasses earliest complex biosphere and their respective sedimentary depositional environment. Presently, I am working on a unique Ediacaran-Cambrian succession of peninsular India i.e., the Ediacaran-Cambrian aged Marwar Supergroup, the Krol-Tal succession of Lesser Himalaya, and promising Cryogenian-Ediacaran succession of the Bhandar Group, Vindhyan Supergroup, India

DOCTORAL

During Ph.D. tenure, I dealt with the Ediacaran complex life forms, Microbially Induced Sedimentary Structure (MISS) and their role in earliest complex biosphere their relevance in context of the Indian peninsular platforms. Detailed aspects of palaeobiology, palaeobiogeographic reconstruction, palaeofacies and its environment of deposition have been covered. Based on all, inter and intra basinal correlations have been established between the Vindhyan and Marwar Supergroup.

POST – DOCTORAL

During postdoctoral tenure, I was dealing with Ediacaran and Cambrian life forms; its evolutionary trends, role of microbial communities during deposition and preservation, affinity, taphonomic constraints and, of course debatable view of trace or body fossils of the Ediacaran life forms. Apart from this, I specifically dealt with the Cambrian trace fossils, its behavioral pattern and palaeoecological consideration of the Nagaur Sandstone, Marwar Supergroup, India.

ACADEMIC POSITIONS

January 2026-Present	SCIENTIST 'E' Birbal Sahni Institute of Palaeosciences, Lucknow, India.
January 2022-Present	SCIENTIST 'D' Birbal Sahni Institute of Palaeosciences, Lucknow, India.
January 2018–Dec 2021	SCIENTIST 'C' Birbal Sahni Institute of Palaeosciences, Lucknow, India.
October 2013–Dec 2017	SCIENTIST 'B' Birbal Sahni Institute of Palaeosciences, Lucknow, India.
May 27–Nov 25 2016	Visiting Scientist under Chinese Academy of Sciences President's

(On deputation)	International Fellowship Initiative (CAS-PIFI) in Nanjing Institute of Geology and Palaeontology (NIGPAS), Nanjing, P.R. China.
June 2011–Oct 2013	Birbal Sahni Research Associate (BSRA) at Birbal Sahni Institute of Palaeosciences, Lucknow, India. (June 2011 – October 2013)
Oct 2008-Feb 2011	Senior Research Fellow (SRF) (Council of Scientific and Industrial Research (CSIR), New Delhi) at Centre of Advanced Study in Geology, University of Lucknow, India.
Jan 2006-Sep 2008	Junior Research Fellow (JRF) (Department of Science and Technology, New Delhi) at Centre of Advanced Study in Geology, University of Lucknow, India.

EDUCATION

2011	Ph.D. (Geology) from University of Lucknow, INDIA
2004	M.Sc. (Geology) from University of Lucknow, INDIA
2002	B.Sc. (Geology, Zoology and Botany) from University of Lucknow, INDIA
1998	Intermediate from U.P. Board, INDIA
1996	High School from U.P. Board, INDIA

AWARDS & HOUNORS

2025 Onwards	Recognized Ph.D. Guide/supervisor in GEOLOGY at Krantiguru Shyamji Krishna Verma Kachchh University, Gujarat.
2019 Onwards	Honorary Assistant Professor (Physical Sciences: Geology / Palaeontology): Academy of Scientific & Innovative Research (AcSIR), India.
March 6, 2019	The Mani Shankar Shukla Memorial Gold Medal has been awarded for outstanding contributions in the field of Micropalaeontology for the year of 2018.
May 27–Nov 25, 2016	Visiting Professor under Chinese Academy of Sciences Presidents' International Fellowship Initiative (CAS-PIFI) in Nanjing Institute of Geology and Palaeontology, 39 East Beijing Road, Jiangsu Province, China.
June 2011–Oct 2013	Birbal Sahni Research Associate (BSRA) at Birbal Sahni Institute of Palaeosciences, Lucknow, India
Oct 2008–Feb 2011	Senior Research Fellow (SRF) (Council of Scientific and Industrial Research (CSIR), New Delhi) at Centre of Advanced Study in Geology, University of Lucknow, India.
Jan 2006–Sep 2008	Junior Research Fellow (JRF) (Department of Science and Technology, New Delhi) at Centre of Advanced Study in Geology, University of Lucknow, India.

NATIONAL/INTERNATIONAL PROJECT

1. Co-PI, Indo-Russian Project (**DST-IFBR-2018**): Mesoproterozoic microbiotas of Eurasia: an integrated approach to the Indian and Russian early eukaryote-dominated assemblages. (**Completed**): International
2. Co-PI, **BSIP-KDMIPE-ONGC Project**: Correlation of the Vindhyan in Son and Chambal Valley by using High-resolution Biostratigraphy, Chemostratigraphy, Palaeoredox reconstruction, Palaeoenvironment and Palaeogeography (**completed**): National (cost: Rs.67,48,016/-)

PUBLICATIONS

ARTICLE/RESEARCH COMMUNICATIONS

1. S. Kumar, **S.K. Pandey** (2007). Microbial mat induced sedimentary structures in the Neoproterozoic Bundi Hill Sandstone, Indargarh area, Rajasthan. **Current Science** 93(7), 1009 -1012.
2. S. Kumar, **S.K. Pandey** (2008a). Discovery of Organic walled microbiota from the black-bedded chert, Balwan Limestone, Bhandar Group, Lakheri area, Rajasthan. **Current Science** 94 (6), 797-800.
3. S. Kumar and **S.K. Pandey** (2008b). Discovery of trilobite trace fossils from the Nagaur Sandstone, the Marwar Supergroup, Dulmera area, District Bikaner, Rajasthan. **Current Science** 94 (8), 1081-1085.
4. S. Kumar, **S.K. Pandey** (2008c). *Arumberia* and associated fossils from the Neoproterozoic Maihar Sandstone, Vindhyan Supergroup, Central India. **Journal of the Palaeontological Society of India** 53 (1), 83 – 97.
5. S. Kumar, P. K. Misra, **S.K. Pandey** (2009a). Discovery of giant Ediacaran plant fossils with Vaucheriacean affinity from the Jodhpur Sandstone, Marwar Supergroup, Jodhpur area, Western Rajasthan. **Current Science** 97 (5), 701 – 705.
6. S. Kumar, **S.K. Pandey** (2009b). A note on the occurrence of *Arumberia banksi* from the Jodhpur Sandstone, Marwar Supergroup, Jodhpur area, Rajasthan. **Journal of the Palaeontological Society of India** 54 (2), 171-178.
7. S. Kumar, **S.K. Pandey** (2010). Trace fossils from the Nagaur Sandstone, Marwar Supergroup, Dulmera area, Bikaner district, Rajasthan. **Journal of Asian Earth Sciences** 38, 77-85.
8. S. Kumar, **S.K. Pandey**, Shamim Ahmad (2011). Occurrence of giant nodules in the Jodhpur Sandstone, Sursagar area, Jodhpur, Rajasthan. **Current Science** 100(9), 1294 – 1296.
9. Mukund Sharma, **S.K. Pandey**, 2012. Stromatolites of the Kaladgi Basin, Karnataka, India: their systematics, biostratigraphy and age implications. **Palaeobotanist** 61, 103 – 121.
10. Mukund Sharma, S. Kumar, Meera Tiwari, Yogmaya Shukla, **S.K. Pandey**, Santanu Banerjee, Purnima Srivastava (2012). Palaeobiological Constraints and the Precambrian Biosphere: Indian Evidence. **Proceedings of the Indian National Science Academy** 78(3), 407 – 422
11. **S.K. Pandey***, S. Kumar (2013). Organic walled microbiota from the silicified algal clasts, Bhandar Limestone, Satna area, Madhya Pradesh. **Journal of the Geological Society of India** 82, 499-508.
12. Mukund Sharma, Meera Tiwari, Shamim Ahmad, Rajita Gautam, Bandana Shukla, V.K. Singh, **S.K. Pandey**, A.H. Ansari, Yogmaya Shukla (2016). Palaeobiology of Indian Proterozoic and Early Cambrian successions-recent developments. **Proceedings of the Indian National Science Academy** 82-3, 5559-579.
13. **S.K. Pandey** and Mukund Sharma 2017. Enigmatic Ediacaran Megascopic bedding plane structures on the Sonia Sandstone, the Jodhpur Group, Marwar Supergroup, India: Seaweed or problematica? **Geological Journal** 52, 784–807.
14. Gregory J. Retallack, Sunil Bajpai, Xiuming Liu, Vivesh Vir Kapur, and **S.K. Pandey** (2018a). Advent of Strong South Asian Monsoon by 20 Million Years Ago. **Journal of Geology** 126-1, 1 – 24.
15. A.H. Ansari, **S.K. Pandey**, Mukund Sharma, Shailesh Agrawal, Yogesh Kumar (2018b). Carbon and oxygen isotope stratigraphy of the Ediacaran Bilara Group, Marwar Supergroup, India: Evidence for high amplitude carbon isotopic negative excursions. **Precambrian Research** 308, 75-91.
16. Mukund Sharma, **S.K. Pandey***, S. Ahmad, K. Kumar, A. H. Ansari (2018c). Observations on the ichnospecies *Monomorphichnus multilineatus* from the Nagaur Sandstone

- (Cambrian Series 2-Stage 4), Marwar Supergroup, India. **Journal of Earth System Sciences** 127, Article 75.
17. Mukund Sharma, S. Ahmad, **S.K. Pandey**, and Kuldeep Kumar (2018d). On the ichnofossil *Treptichnus pedum*: inferences from the Nagaur Sandstone, Marwar Supergroup, India. **Bulletin of Geosciences** 93-3, 305-325.
 18. A.H. Ansari, I.B. Singh, S.K. Bhattacharya, Yogesh Kumar, **S.K. Pandey**, S. Kumar, Shamim Ahmad (2019a). Note on the C and O stratigraphy of the Garbyang Formation (Malla Johar area), Tethyan Himalaya, India. **Journal of the Palaeontological Society of India** 64(2), 265-274.
 19. **S.K. Pandey***, N. Bykova, M. Sharma, G.A. Karlova, A.H. Ansari, Y. Kumar, S. Ahmad, M.K. Pandit, (2019b). Current status of the Ediacaran-Cambrian Bilara Group, Marwar Supergroup, India. In: Short summaries presented at the International Congress on Ediacaric and Ediacaric-Cambrian transit (Guadalupe, Extremadura, Spain, October 17-24, 2019) (Eds: Álvaro, J.J., Jensen, S.), **Estudios Geológicos**, 75(2), p002, 29-30.
 20. Shamim Ahmad, Ayushi Srivastava, Mukund Sharma, **S.K. Pandey**, A.H. Ansari, Purnima Srivastava (2019c). Diversification, behavioural traits and palaeoecology of burrows: A case study from the Cambrian Nagaur Sandstone, Marwar Supergroup, Rajasthan. In: Short summaries presented at the International Congress on Ediacaric and Ediacaric-Cambrian transit (Guadalupe, Extremadura, Spain, October 17-24, 2019) (Eds: Álvaro, J.J., Jensen, S.), **Estudios Geológicos** 75(2), p002, 01-02.
 21. A.H. Ansari, Mukund Sharma, S. Ahmad, Veeru Kant Singh, **S.K. Pandey**, Yogesh Kumar (2020a). Carbon uptake rate of hot spring biota above 70°C: A study of Panamik and Puga hot springs of Ladakh region, Jammu and Kashmir, India. **Current Science** 118(4), 644-648.
 22. A.H. Ansari, **S.K. Pandey**, Kamlesh Kumar, Shailesh Agrawal, Shamim Ahmad, Mayank Shekhar (2020b). Palaeoredox link with the late Neoproterozoic-early Cambrian Bilara Carbonate deposition, Marwar Supergroup, India. **Carbonate and Evaporites** 35(2), Article 38.
 23. Bin Wan, Zhe Chen, Xunlai Yuan, Ke Pang, Qing Tang, Chengguo Guan, Xiaopeng Wang, **S.K. Pandey**, Mary L. Droser, Shuhai Xiao (2020c). Taxonomy, Taphonomy and Palaeoecology of Ediacaran Fossil *Flabelllophyton* from the Lantian and Ediacara biotas. **Gondwana Research** 84, 296–314.
 24. Zhongwu Lan, Shujing Zhang, Xian-Hua Li, **S.K. Pandey**, Mukund Sharma, Yogmaya Shukla, Shamim Ahmad, Subir Sarkar, Mingguo Zhai (2020d). Towards resolving the 'jigsaw puzzle' and age-fossil inconsistency within East Gondwana. **Precambrian research** 345, 105775.
 25. Zhongwu Lan, Shujing Zhang, Xian-Hua Li, **S.K. Pandey**, Mukund Sharma, Yogmaya Shukla, Shamim Ahmad, Subir Sarkar, Mingguo Zhai (2021a). A Reply: Towards resolving the 'jigsaw puzzle' and age-fossil inconsistency within East Gondwana. **Precambrian research** 352, 105900.
 26. A.H. Ansari, **S.K. Pandey** (2021b). Authigenic $\delta^{13}\text{C}$ -carb negative excursion in the late Ediacaran–early Cambrian Bilara Group, Marwar Supergroup, India. **Journal of the Geological Society of India** 97, 615 – 624.
 27. Zhongwu Lan, **S.K. Pandey**, Shujing Zhang, Mukund Sharma, Yuya Gao, Shitou Wu (2021c). Precambrian crustal evolution in Northern Indian Block: Evidence from detrital zircon U-Pb ages and Hf-isotopes. **Precambrian research** 361, 106238.
 28. Mukund Sharma, Veeru Kant Singh, **S.K. Pandey**, AH Ansari, Yogmaya Shukla, Shamim Ahmad, Yogesh Kumar, Divya Singh (2021d). Precambrian and early Cambrian palaeobiology of India: *Quo vadis*. **Proceedings of the Indian National Science Academy** 87, 199–233.

29. Md. Firoze Quamar, Biswajeet Thakur, Veeru Kant Singh, and **S.K. Pandey** (2021e). Pollen heteromorphism in *Schleichera* Lour. (Sapindaceae), observed in surface soil samples from central India. **Acta Palaeobotanica** 61(1), 32–41.
30. Uday Bhan, Divya Singh, Mukund Sharma, Deepak Singh, **S.K. Pandey** (2021f). A note on the Fan-Fabric Structures in the late Palaeoproterozoic Kajrahat Limestone, Katni, M.P., India. **Journal of the Palaeontological Society of India** 66(2), 315 – 322.
31. Shamim Ahmad, **S.K. Pandey**, Mukund Sharma, Ayushi Srivastava (2021g). The early Cambrian (Series 2, Stage 3) burrows from the Nagaur Sandstone, Marwar Supergroup, Rajasthan, India: palaeoenvironmental and palaeoecological considerations. **Journal of the Palaeontological Society of India** 66(2), 271 – 289.
32. Divya Singh, Mukund Sharma, Uday Bhan, Bindhyachal Pandey, **S.K. Pandey**, Deepak Singh (2021h). Carbonate Fan Fabric Structures (FFS) in time and space: A case study from the Palaeoproterozoic Kajrahat Limestone, Vindhyan Supergroup, India. **Journal of the Palaeontological Society of India** 66(2), 290 – 302.
33. **S.K. Pandey***, Shamim Ahmad, Mukund Sharma (2023a). *Dickinsonia tenuis* reported by Retallack et al. 2021 is not a fossil, instead an impression of an extant 'fallen beehive'. **Journal of the Geological Society of India** 99, 311-316.
34. A.H. Ansari, **S.K. Pandey***, Shamim Ahmad, Mukund Sharma, Pawan Govil, Amritpal Singh Chaddha, Anupam Sharma (2023b). High primary productivity in an Ediacaran shallow marine basin influenced by strong seasonal to perennial upwelling. **Geological Magazine** 160, 1607–1623.
35. **S.K. Pandey***, Shamim Ahmad and Mukund Sharma (2024a). Discussion: *Dickinsonia tenuis* reported by Retallack et al. 2021 is not a Fossil, Instead an Impression of an Extant 'fallen beehive' by S.K. Pandey, Shamim Ahmad and Mukund Sharma (2023c). Jour. Geol. Soc. India, v.99, 2023, pp. 1033-1036. **Journal of the Geological Society of India** 99, 9-12.
36. **SK Pandey***, Deepak Singh, Mukund Sharma, Shamim Ahmad, Uday Bhan (2024b). A new palaeobiological assemblage from the Son Valley Bhandar Group and its implications on the age of the upper Vindhyan of India. **Palaeoworld**, 33(4), 801-828.
37. Amritpal Singh Chaddha, Anupam Sharma, Narendra Kumar Singh, Sheikh Nawaz Ali, P.K. Das, **S.K. Pandey**, Binita Phartiyal, Subodh Kumar (2024b). Exploring the astrobiological potential of rock varnish from a mars analogue field site of Ladakh, India. **Planetary and Space Science** 248, 105932.
38. Shamim Ahmad, Arif H. Ansari, Mukund Sharma and **S.K. Pandey** (2024c). The Palaeo-Productivity Signals Chronicled from the Buxa Formation, North-East Lesser Himalaya, India. **Journal of the Geological Society of India** 100(9), 1263-1270.
39. Shamim Ahmad, **S.K. Pandey*** (2025a). Ediacaran fossils from the Sonia Sandstone, Jodhpur Group, India: New discoveries and interpretations. **Journal of the Palaeontological Society of India** 70(1), 1-14.
40. Arvind K. Singh, **S.K. Pandey** (2025b). Comprehensive proceedings of the 40th convention of the Indian Association of Sedimentologists and National Conference on "An Odyssey of Sedimentology from Precambrian to Anthropocene: Significant Contributions in Environmental, Climatic, and Energy Research". **Journal Indian Association of Sedimentologists**, 42(I), 83-92.
41. Shamim Ahmad, **S.K. Pandey*** (2025c). Perspective on Ichnogenus *Bergaueria* from the Nagaur Group, Marwar Supergroup, India. **Journal of the Geological Society of India** 101(11), 1620-1630.
42. Shamim Ahmad, **S.K. Pandey*** (2025d). *Gyrophyllites cristinae*: unveiling early Cambrian life signatures in the Nagaur Sandstone, Marwar Supergroup, India. **Evolving Earth** 3, 100083.

43. Divya Singh, Mukund Sharma, Yogendra Misra, **S.K. Pandey**, Bindhyachal Pandey (2025e). A peculiar and rare stromatolite *Platella*, from the Kajrahat Limestone, Vindhyan Supergroup, Son Valley, Sonbhadra, India. **Journal of the Palaeontological Society of India**, 70(2), 596 – 600.
44. Shamim Ahmad, **S.K. Pandey*** (2026a). Temporal conundrum: The age of trace fossils from Osian, Western Rajasthan, India. **Journal of the Geological Society of India**, 102(1), 135 – 140.
45. Shamim Ahmad, **S.K. Pandey*** (2026b). First Record of Ichnogenus *Furculosus* from Western India: Clues to Early Cambrian Behavioral Evolution. **Habitable Planet**, 2(1), 149-158.
46. Veeru Kant Singh, Yogesh Kumar, **S.K. Pandey***, Arvind K. Singh (2016c). Ball-shaped microbial mats from the Ediacaran Krol D Formation, Lesser Himalaya: Evidence from Nigalidhar Syncline, Himachal Pradesh, India. **Geophytology** 56(1), 69–73.
47. V.K. Singh, Y. Kumar, **S.K. Pandey***, A. Jain, A.K. Singh (2026d). Occurrence of *Shaanxilithes ningqiangensis* and their taphonomic variants from Krol E of the Nigalidhar Syncline, Lesser Himalaya, India. **Evolving Earth**, 04, 100151.
48. Shamim Ahmad, **S.K. Pandey** (2026e). A prognostic ichnofabric framework for the Ediacaran-Cambrian Transition: Marwar Supergroup, India. **Evolving Earth**, 4, 100152.
49. Priyanka Singh, Madhav K. Murari, Sheikh N. Ali, **S.K. Pandey**, Pawan Govil, Sarajit Sensarma, Kamlesh Kumar, Siddharth Prizomwala, Anupam Sharma, Ipsita Roy, R. Jayangondaperumal, Parminder Ranhotra, Kuldeep Prakash, P. Mortheikai (2026f). Dating feldspar micro-inclusions within quartz emphasizing on the dose rate: An alternate way to date Himalayan Quaternary deposits. **Quaternary Geochronology**, 95, 101757.

PREPRINT

1. **S.K. Pandey***, Shamim Ahmad, Mukund Sharma (2023). *Dickinsonia tenuis* reported by Retallack et al. 2021 is not a fossil, instead an impression of an extant ‘fallen beehive’. ESS open archive, DOI: [10.22541/essoar.167397423.32091965/v1](https://doi.org/10.22541/essoar.167397423.32091965/v1)
2. Amritpal Singh Chaddha, Anupam Sharma, Narendra Kumar Singh, Sheikh Nawaz Ali, P.K. Das, **S.K. Pandey**, Binita Phartiyal, Subodh Kumar (2023). Ladakh's Rock Varnish: A potential Geomaterial for astrobiological studies. <https://doi.org/10.22541/essoar.169867667.72451689/v1>
3. Sunil Kumar Shukla, Amritpal Singh Chaddha, Kamlesh Kumar, Anupam Sharma, **S.K. Pandey**, Vivesh V. Kapur, Binita Phartiyal, A. Shivam, Ankur Dabhi, Ravi Bhushan (2023). Hot spring diatoms are linked to extreme cold conditions: A new perspective for astrobiological implication from the sinter deposit of Puga hot spring, Ladakh, India. <https://doi.org/10.22541/essoar.170158324.46307742/v1>

BOOK

1. **S.K. Pandey***, 2012. Biozonation and Correlation of the Neoproterozoic Bhandar Group, India. **LAP LAMBERT Academic Publishing, Germany**, 165 p.

PROCEEDING VOLUME/CHAPTER

1. **S.K. Pandey***, 2014. Thrombolite from the Neoproterozoic Bhandar Group, Vindhyan Supergroup, central India. **Proceedings of the 1st International Congress on Stratigraphy**. Rocha, R., Pais, J., Finney, S., Kullberg, J.C. (Eds.) XXVII, 1143-1147. (Series: Springer Geology)

FIELD GUIDE-BOOK

1. Mukund Sharma, **S.K. Pandey** and S. Kumar, 2014. Marwar Supergroup, Rajasthan. **The Society of Earth Scientists, Lucknow**. P. 80.

2. Mukund Sharma, [S.K. Pandey](#) and S. Kumar, 2020. Vindhyan Supergroup, India. **36th IGC 2020**.
3. NK Chauhan, [SK Pandey](#), A.K. Singh, A. Shrivastava 2023. National Geo-heritage field workshop on Zawar ancient metallurgical national geological monument Jhamarkotra stromatolite (fossil algae) National Geological Monument. **The Society of Earth Scientists, Lucknow**. P. 13.

MEETING/ASSESSMENT REPORT

1. [S.K. Pandey](#) and Bandana Dimri (2014). Field Workshop on the Marwar Supergroup*. **Current Science**, 107(2), 169 – 170.
2. Vivesh V. Kapur, [S.K. Pandey](#) and S.R. Mishra (2015). Palaeogene of the Indian subcontinent. **Current Science**, 109(5), 848 – 849.
3. M.G. Thakkar, Shilpa Pandey, Veeru Kant Singh, [SK Pandey](#), Arvind K Singh, Suraj Bhosale, Akhilesh K Yadav, 2026. A comprehensive assessment report of **UNESCO World Heritage Inscription of Salkhan Fossil Park, Sonbhadra district, Uttar Pradesh to Eco Tourism Board, Uttar Pradesh**. P. 66.

ABSTRACT

1. [S.K. Pandey](#), S. Kumar **2007**. Micro and Ministromatolites from the Neoproterozoic Bhandar Limestone (Upper Vindhyan), Central India. **XXI Indian Colloquium on Micropalaeontology and Stratigraphy**, BSIP, Lucknow: 125.
2. [S.K. Pandey](#), S. Kumar **2007**. Occurrence of *Arumberia* in the Maihar Sandstone (Bhandar Group) Central India: Implication for the Upper age limit of the Vindhyan Supergroup. **International Conference on Precambrian Sedimentation and Tectonics and second GPSS Meeting**. IIT, Bombay: 20.
3. Yogendra Bhadauriya, Pankaj Sharma, S. Nawaz Ali, [S.K. Pandey](#) **2011**. Morphometric analysis of the Nandakini River Basin, Garhwal Himalaya. **National Seminar on Late Quaternary Geology of the Himalayan Orogen and the Foreland Basin**, February 16-17, 2011, CAS in Geology, University of Lucknow: 63.
4. Mukund Sharma, [S.K. Pandey](#) **2011**. Fossil lagerstätten and an age assessment of the Nagaur Sandstone, Marwar Supergroup. **XXIII Indian Colloquium on “Micropalaeontology and Stratigraphy (ICMS) and International Symposium on Global Bioevents in the Earth History”**, Bangalore University, India. XXIII ICMS-64, 82.
5. Mukund Sharma, [S.K. Pandey](#) **2011**. Ichno-fossils and microfossils from the Precambrian-Cambrian Marwar Supergroup, India. **World Conference on Paleontology and Stratigraphy**, Nakhon Ratchasima 30000, THAILAND. 73.
6. [S.K. Pandey](#), S. Kumar 2011. Biozonation and correlation of the Neoproterozoic Bhandar Group, central India. **World Conference on Paleontology and Stratigraphy, Nakhon Ratchasima 30000, THAILAND**. 193.
7. [S.K. Pandey](#) 2012. Enigmatic life in the Marwar Supergroup, western Rajasthan, India. **56th Annual Meeting of the Palaeontological Association, University College Dublin, Ireland**.
8. Deepak Singh, Anurodh Dayal, Mukund Sharma, Uday Bhan, Pradeep Joshi, [S.K. Pandey](#) **2012**. Organic Matter Maturation studies of the Bhandar Group, Maihar area, Satna District, Madhya Pradesh. **International Workshop on Exploration & Exploitation of Shale Gas**, CSIR-National Geophysical Research Institute, Uppal Road, Hyderabad, India.
9. Uday Bhan, Anurodh Dayal, Mukund Sharma, Deepak Singh, Pradeep Joshi, [S.K. Pandey](#) **2012**. Hydrocarbon Characterization of Carbonates and Shales of the Semri Group, Maihar area, Lower Vindhyan, Satna District, Madhya Pradesh. **International Workshop on**

- Exploration & Exploitation of Shale Gas**, CSIR-National Geophysical Research Institute, Hyderabad, India.
10. [S.K. Pandey](#), Mukund sharma, 2013. Enigmatic megascopic bedding plane structures on the Ediacaran Sonia Sandstone of the Jodhpur Group, Marwar Supergroup, Rajasthan. 87. XXIV **Indian Colloquium on Micropaleontology and Stratigraphy** at Wadia Institute of Himalayan Geology, Dehradun (November 18th – 20th, 2013).
 11. Mukund Sharma, Uday Bhan, [S.K. Pandey](#), Deepak Singh, Pradeep Joshi, 2013. Mesoproterozoic silicified microfossils from the Salkhan Limestone of the Semri Group, Maihar area, M.P. 134. XXIV **Indian Colloquium on Micropaleontology and Stratigraphy** at Wadia Institute of Himalayan Geology, Dehradun (November 18th – 20th, 2013).
 12. Mukund Sharma, [S.K. Pandey](#), 2016. Behavioral and taphonomical testimony of *Tretichnus pedum*, inferences from the Nagaur Sandstone, Marwar Supergroup, India. **35th International Geological Congress, CapeTown, South Africa (Paper No. 3612)** (27th August - 4th September 2016).
 13. Mukund Sharma, [S.K. Pandey](#), 2016. Observation on the Lower Cambrian ichnospecies *Monomorphichnus multilineatus* recorded from the Marwar Supergroup, India: A review. **35th International Geological Congress, Cape Town, South Africa (Paper No. 3766)** (27th August – 4th September 2016).
 14. Uday Bhan, Mukund Sharma, Deepak Singh, [S.K. Pandey](#), D.K. Gupta, Deepak Singh Maurya, Pradeep Joshi, 2016. Mesoproterozoic carbonaceous remains and microfossils from the Semri Group sediments, Maihar area, Satna district Madhya Pradesh, India: Implications in Age and Palaeoenvironment. **National conference & Field Workshop on Precambrian of India**, Bundelkhand University (22-24 November 2016), 113.
 15. Arif Ansari, [S.K. Pandey](#), Mukund Sharma, Shailesh Agarwal, Yogesh Kumar, 2016. Stable carbon and oxygen isotope stratigraphic evidence of Shuram Excursion and Pc-C boundary in Bilara carbonate sequence of Rajasthan, Vol. 19. **EGU General Assembly 2017**.
 16. [S.K. Pandey](#), Mukund Sharma, 2017. Meter-scale Ediacaran seaweed: Testimony from the Sonia Sandstone, Jodhpur Group, Marwar Supergroup, India. **International Symposium on the Ediacara-Cambrian Transaction (ISECT-2017)**.
 17. Mukund Sharma, [S.K. Pandey](#), S. Ahmad, 2017. Ichnofossils diversity and constraints on the age of the Cambrian Nagaur Group, Marwar Supergroup, India. **International Symposium on the Ediacara-Cambrian Transaction (ISECT-2017)**.
 18. Bin Wan, Zhe Chen, Xunlai Yuan, Ke Pang, Chengguo Guan, Xiaopeng Wang, [S.K. Pandey](#), Shuhai Xiao, 2018. A tale of three taphonomic modes: *Flabelllophyton* from the Ediacaran Lantian and Dengying formations in South China, 329. **5th International Paleontological Congress, Paris** (9-13th July 2018)
 19. [S.K. Pandey](#), Bin Wan, Xunlai Yuan, Mukund Sharma, Shamim Ahmad, A.H. Ansari, 2018. Ediacaran benthic macro-metaphyte/seaweed: A feasible source for sustenance of large body plan of Ediacara biota, 17-18. **International Conference on Ediacaran and Cambrian Sciences**, Xian, CHINA (12-16th August 2018).
 20. S. Ahmad, [S.K. Pandey](#), 2018. Life in Late Neoproterozoic to Early Cambrian biosphere: Insight from the Marwar Supergroup, 55-56. **International Conference on Ediacaran and Cambrian Sciences**, Xian, CHINA (12-16th August 2018).
 21. A.H. Ansari, [S.K. Pandey](#), Mukund Sharma, Shailesh Agrawal 2019. Hydrologically controlled late Ediacaran Extreme Negative Carbon Isotope Excursion (EENCE). **Goldschmidt 2019, Barcelona, SPAIN** (18-23rd August 2019)
 22. [S.K. Pandey](#), Bin Wan, Xunlai Yuan, Mukund Sharma, Shamim Ahmad, A.H. Ansari, 2019. Large body-plan of Ediacara biota and its relationship with Metaphytes. **International symposium on Fossil Algae**, BSIP, Lucknow, India (September 2019)

23. S. Ahmad, A. Srivastava, M. Sharma, [S.K. Pandey](#), A.H. Ansari, P. Srivastava, 2019. Diversification, behavioural traits and palaeoecology of burrows: a case study from the Cambrian Nagaur Sandstone, Marwar Supergroup, Rajasthan, India. International Congress on Ediacaric and Ediacaric-Cambrian transit (Guadalupe, Extremadura, Spain, October 17-24, 2019).
24. [Pandey, S.K.](#), Bykova, N., Sharma, M., Karlova, G.A., Ansari, A.H., Kumar, Y., Ahmad, S., Pandit, M.K. (2019). Current status of the Ediacaran-Cambrian Bilara Group, Marwar Supergroup, India. International Congress on Ediacaric and Ediacaric-Cambrian transit (Guadalupe, Extremadura, Spain, October 17-24, 2019).
25. [S.K. Pandey](#), Mukund Sharma, Deepak Singh, Udai Bhan, Shamim Ahmad, 2019. Acritarch assemblage from the Neoproterozoic Bhander Group, Vindhyan Supergroup, India. **XXVII Indian Colloquium on Micropaleontology and Stratigraphy**, Banaras Hindu University, India. (November 2019)
26. Divya Singh, [S.K. Pandey](#), Mukund Sharma, A.H. Ansari, 2019. Carbonate Fan-fabric in time and space: A case study from Palaeoproterozoic Kajrahat Limestone, Vindhyan Supergroup, India. **XXVII Indian Colloquium on Micropaleontology and Stratigraphy**, Banaras Hindu University, India. (November 2019)
27. Shamim Ahmad, Mukund Sharma, A.H. Ansari, Veeru Kant Singh, [S.K. Pandey](#), Shailesh Agrawal, 2019. Evidence of oxygenation pulse recorded from the Buxa Formation (Sikkim), NE Lesser Himalaya, India. **XXVII Indian Colloquium on Micropaleontology and Stratigraphy**, Banaras Hindu University, India. (November 2019)
28. [S.K. Pandey](#), Mukund Sharma, Shamim Ahmad 2023. The Current Chronostratigraphic Status of Bhander Group of the Vindhyan Supergroup. **Vindhyan Supergroup: Recent advancements, challenges, and Opportunities (VISACOP)** organized by the Geological Survey of India, Northern Region, Lucknow on 18th October 2023. Page no. 37.
29. Divya Singh, Mukund Sharma, Bindhyachal Pandey, Nageshwar Dubey and [S.K. Pandey](#). Petrological and Geochemical Studies of the Peculiar Carbonate Concretions of the Rohtasgarh Limestone, Sonbhadra District and their Significance. **Recent advancements, challenges, and Opportunities (VISACOP)** organized by the Geological Survey of India, Northern Region, Lucknow on 18th October 2023. Page no. 49.
30. Shamim Ahmad, [S.K. Pandey](#), Mukund Sharma 2023. Unveiling the Enigma: *Dickinsonia tenuis* of Retallack et al., 2021 - Not a Fossil, but the Imprint of a 'Fallen Beehive' **Vindhyan Supergroup: Recent advancements, challenges, and Opportunities (VISACOP)** organized by the Geological Survey of India, Northern Region, Lucknow on 18th October 2023. Page no. 41.
31. [S.K. Pandey](#). The sustenance for large body plan of Ediacara biota. **Conference for Integrated Earth (CITE)**, IISER Pune (1st -2nd September 2024). Page no. 153.
32. Divya Singh, Mukund Sharma, [S.K. Pandey](#), Bindhyachal Pandey. Understanding the effect of secondary alterations on the preserved microfossils: A case study from the Palaeoproterozoic chert of the Salkhan Limestone, Vindhyan Supergroup, India. **Conference for Integrated Earth (CITE)**, IISER Pune (1st -2nd September 2024). Page no. 178.
33. [S.K. Pandey](#), Mukund Sharma, Shamim Ahmad. Co-evolution of life and environment and the role of large seaweeds for the Emergence of Ediacara biota, p. 160. **29th Indian Colloquium on Micropaleontology and Stratigraphy**, Delhi University, Delhi (17-19 October 2024).
34. S. Ahmad, [S.K. Pandey](#). Insight into *Bergaueria* trace fossils from the Nagaur Group, Marwar Supergroup, India. **29th Indian Colloquium on Micropaleontology and Stratigraphy**, Delhi University, Delhi (17-19 October 2024).

35. Kumail Ahmad, Arvind Kumar Singh, [S.K. Pandey](#), Veeru Kant Singh, Gurumurthy G.P: "Decoding Molar Tooth Structures from the Rohtasgarh Limestone, Son valley, Vindhyan Basin, India: Implications for its genesis and palaeoenvironment". **40th Convention of Indian Association of Sedimentologists & National Conference on An Odyssey of Sedimentology from Precambrian to Anthropocene: Significant contribution in Environmental Climatic and Energy Research held at BSIP, Lucknow**, (11th-13th December 2024), Page No. 45.
36. Veeru Kant Singh, Yogesh Kumar, [S.K. Pandey](#). Lagerstätte of *Shaanxilithes ningqiangensis* and their taphonomic variants from the Krol E Formation of the Nigalidhar Syncline, Lesser Himalaya, India. The Palaeontological Society of India Platinum Jubilee Conference (**Fossils as Earth's Timekeepers**) held at CSIR-NIO, Goa (29-31 October 2025), page no. 77.
37. [S.K. Pandey](#), Natalia Bykova, Mukund Sharma, Galina A. Karlova, A.H. Ansari, Yogesh Kumar, S. Ahmad, Divya Singh, Zhongwu Lan, Manoj K. Pandit, Wei Wang. Understanding the Ediacaran-Cambrian transition in the Bilara Group, NW India: Paleontological and geochemical constraints. The Palaeontological Society of India Platinum Jubilee Conference (**Fossils as Earth's Timekeepers**) held at CSIR-NIO, Goa (29-31 October 2025), page no. 78.
38. Shamim Ahmad and [S.K. Pandey](#). Ediacaran fossils from the Sonia Sandstone, Jodhpur Group, India: new discoveries and interpretations. The Palaeontological Society of India Platinum Jubilee Conference (**Fossils as Earth's Timekeepers**) held at CSIR-NIO, Goa (29-31 October 2025), page no. 87.
39. Uday Bhan, Mukund Sharma, Sambit P. Naik, [S.K. Pandey](#). Palaeoenvironmental and biostratigraphic significance of Microbial-Induced Sedimentary Structures (MISS) of the Semri Group, Vindhyan Supergroup. The Palaeontological Society of India Platinum Jubilee Conference (**Fossils as Earth's Timekeepers**) held at CSIR-NIO, Goa (29-31 October 2025), page no. 170.

PAPER PRESENTATION IN CONFERENCE (INDIA)

- The Palaeontological Society of India Platinum Jubilee Conference (**Fossils as Earth's Timekeepers**) held at CSIR-NIO, Goa (29-31 October 2025).
- **29th Indian Colloquium on Micropaleontology and Stratigraphy**, Delhi University, Delhi (17-19 October 2024).
- **Conference on Integrated earth CITE 2024** organized by Earth and Climate Science Department, IISER, Pune (1-2 September 2024).
- **Vindhyan Supergroup: Recent advancements, challenges, and Opportunities (VISACOP)** organized by the Geological Survey of India, Northern Region, Lucknow on 18th October 2023.
- **XXVII Indian Colloquium on Micropaleontology and Stratigraphy**, Banaras Hindu University, India. (November 2019)
- **International symposium on Fossil Algae**, BSIP, Lucknow, India (September 2019).
- **XXIV Indian Colloquium on Micropaleontology and Stratigraphy** at Wadia Institute of Himalayan Geology, Dehradun (November 18th – 20th, 2013).
- **XXI Indian Colloquium on Micropaleontology and Stratigraphy**", held at Birbal Sahni Institute of Palaeobotany, Lucknow, INDIA (November 16-17, 2007).
- **International Conference on Precambrian Sedimentation and Tectonics and second GPSS Meeting**. IIT, Bombay, INDIA (10-12 December 2007).

PAPER PRESENTATION IN CONFERENCE (ABROAD)

- **World Conference on Paleontology and Stratigraphy (WCPS_2011)**, Nakhon Ratchasima 30000, **THAILAND**. (28th November – 02nd December 2011)
- **56th Annual Meeting of the Palaeontological Association**, University College Dublin, **IRELAND**. (16th -18th December 2012)
- **International Conference on Ediacaran and Cambrian Sciences (ICECS 2018)**, Northwest University, Xi'an, **CHINA**. (12-16th August 2018)

NATIONAL CONFERENCE/WORKSHOP ORGANIZED

- 40th Convention of Indian Association of Sedimentologists (IAS) & National Conference on An Odyssey of Sedimentology from Precambrian to Anthropocene: Significant contributions in Environmental Climatic and Energy Research (December 11th-13th, 2024) (Co-convenor)
- Organized Post-Conference Workshops (Under 40th IAS)
Workshop 1: Palynology and its application in climate change studies.
Workshop 2: Sequence stratigraphy: Siliciclastic and Carbonate systems: New look.
- Organized Post-Conference Field Excursion (Facies and depositional environmental setting of the Lower Vindhyan, Chitrakoot) under the banner of 40th IAS.
- Deputed as Organizing secretary for the Field workshop on “Zawar metallurgical National Geological Monuments and Jhamarkotra Phosphatic Stromatolite National Geological Monument” held at Udaipur, Rajasthan from March 03-04, 2023.

FIELD WORKSHOP ORGANIZED

- **Organizing Secretary:** “National Geo-heritage field workshop on Zawar ancient metallurgical national geological monument & Jhamarkotra stromatolite (fossil algae) National Geological Monument” held at Udaipur organized jointly by SES, Lucknow; BSIP, Lucknow; Rajasthan Tourism; JNRNV, Udaipur (3-4 March 2023).

INVITED TALK

- Presented on topic: **“The Glimpse of the Proterozoic basins of India: Gap and goals”** In **Nanjing Institute of Geology and Palaeontology (NIGPAS)**, Nanjing, **CHINA**. (12th September 2016)
- Presented on topic: **“Ediacaran benthic algae/seaweed: A feasible source of sustenance for large body plan of first animal(s)”** under the e-Training courses on “Micropalaeontology and C¹⁴ Dating” (21-31 July 2020) **organized by The Regional Training Division, GSI-NR, Lucknow** on 29th July 2020.
- Presented on topic: **Status of the Bhander Group (the youngest succession of the Vindhyan Basin) and correlation: A promising window to encounter the Ediacaran biosphere!** under the e-training on “Course on sedimentary mapping techniques in Vindhyan” from 22/11/2021 to 27/11/2021 **organized by Regional Training Division, GSI-NR, Lucknow** on 24th November 2021.
- Presented (Online) on topic: **“Life & Environment on the Earth”** on the occasion of International Fossil Day in **Department of Geology, MLSU, Udaipur** under the Student Chapter of The Palaeontological Society of India. (20th October 2023)

FIELD WORKSHOP ATTENDED

- Field training on **“Himalayan Mapping Techniques”** organized by Geological Survey of India (Northern Region) in Kaza, Lahaul -Spiti, Himachal Pradesh. (15th to 29th July 2019).

- Field Trip (**From Snowball Earth to the Cambrian Explosion: Rocks and Fossils in the Yangtze Gorges area**) in International Conference on Ediacaran and Cambrian Sciences (ICECS 2018) by Northwest University, Xi'an, China. (9th-12th August 2018)
- **International Field workshop on Marwar Supergroup, western Rajasthan** organized by *The Society of Earth Scientists* (SES), Lucknow (20th -28th January 2014)
- **International Field workshop on Vindhyan Supergroup, central India** organized by *The Palaeontological Society of India*, Lucknow & Centre of Advanced Study in Geology, University of Lucknow. (21st -31st January 2010)
- **International Conference on Precambrian Sedimentation and Tectonics and second GPSS Meeting.** IIT, Bombay, (10th-12th December 2007)

TRAINING COURSES ATTENDED

- **Workshop On new techniques in Palaeobiology** conducted by Nanjing Institute of Geology and Palaeontology CAS, Nanjing, CHINA (November 16th – 18th 2016)
- **INSIDE RAMAN** Seminar conducted by Indian Institute of Science Education and Research (IISER), Mohali. (December 10th - 11th 2015)
- Participated in Workshop and Training Programme on **Acritarchs**: Morphological aspects & significance in Palaeobiological studies conducted by **Prof. Shuhai Xiao** at Birbal Sahni Institute of Palaeobotany, Lucknow. (January 7th -10th, 2014)
- Participated in course work on **Palaeosols** conducted by **Prof. Gregory John Retallack** held at Birbal Sahni Institute of Palaeobotany, Lucknow. (November 6th -12th, 2013)
- Participated in **Training programme on Palynology in Fossil Fuel Exploration** organized by Birbal Sahni Institute of Palaeobotany, Lucknow, India. (September 10th -15th, 2012)
- Participated a DST-NRDMS Winter school on “**Geomatic Engineering, Principles and Application**” Sponsored by **NRDMS Division, DST New Delhi** and organized by **Department of Civil Engineering** at Indian Institute of Technology, Roorkee. (December 26th, 2005 - January 14th, 2006)
- Undergone 2 weeks **Training Programme on Remote Sensing and GIS- Application for Geologist and Geographers in Remote Sensing Application Center**, Lucknow, U.P. (November 14th – 25th, 2005)

PH.D. STUDENT

1. **Mrs. Divya Singh** (Co-Supervisor): Banaras Hindu University, Varanasi. (Awarded: Year 2024).
2. **Mr. Rakshit Sahu** (Supervisor): Pursuing

POST-DOCTORAL FELLOW

1. **Dr. Divya Singh** (CSIR-Research Associate (RA)-ongoing
2. **Dr. Shamim Ahmad** (CSIR-Senior Research Associate (SRA)-completed

M.Sc. DISSERTATION

1. **Ms. Umme Kulsum**, M.Sc. (Geology), Semester-IV, Banasthali Vidyapith, Rajasthan (2019).
Title: Palaeobiological Investigation of *Chuarina*: Insight from the Bhandar Limestone, Vindhyan Supergroup, INDIA.
3. **Ms. Ayushi Srivastava**, M.Sc. (Geology), Semester-IV, University of Lucknow, Lucknow (2019).
Title: Behavioural traits, palaeoecology and diversification of Burrows: A case study from the Nagaur Sandstone, Marwar Supergroup, Rajasthan.

4. **Ms. Dolly**, M.Sc. (Geology), Semester-IV, Banasthali Vidyapith, Rajasthan (2019).
Title: *Chuaria-Tawuia* assemblage from the Neoproterozoic Sirbu Shale, Bhnader Group, Vindhyan Supergroup, India: Insights from microscopy and spectroscopy.
5. **Ms. Mrinalini Shukla**, M.Sc. (Geology), University of Lucknow, Lucknow (2020).
Title: Burrow system in Kachchh Basin, Gujarat, India & their palaeoecological significance in Phanerozoic Eon.
6. **Ms. Kriti Kapoor**, M.Sc. (Geology), BSNVPG College, Lucknow (2026).

REVIEW OF MANUSCRIPT FOR JOURNALS: 1) Paleontology, 2) Historical Biology, 3) Gondwana Research, 4) Precambrian Research, 5) Geological Journal, 6) The Palaeobotanist, 7) Journal of the Paleontological Society of India, 8) PlosOne, 9) Journal of Palaeosciences.

FIELD WORK

- A short field has been jointly organized by Birbal Sahni Institute of Palaeobotany and Geological Survey of India in the month of November 2013 to Subathu, Dagshai (Eocene to Miocene age) around Solan area (Himachal Pradesh, India). From the BSIP, Prof. Sunil Bajpai (Director, BSIP), Dr. Vivesh V. Kapur (Scientist B) and I were actively participated along with distinguished scientist **Prof. Gregory J. Retallack** (University of Oregon, USA) and officers from GSI also joined us in field.
- ~20 days Field work has been carried out with **Prof Dr. Xunlai Yuan, Dr. Bin Wan Mr. Shao Ye Fei (NIGPAS) and Qing Tang (VT, USA)** in two parts; first to have detailed field work in Yichang district, Hubei Province; Zhangjiajie, Hunan Province; Huangshan district, Anhui Province, CHINA to explore the Cryogenian to Cambrian stratified succession of the Yangtze Gorge Platform of south China (Doushantuo, Dengying, Neutitang and Hetang formations).
- ~15 days field work in Lantian town, Huangshan district, South Anhui Province, CHINA (Yangtze Gorge Platform, South China) to explore the Ediacaran Lantian Formation and collection of well-preserved metazoans and metaphytes for further studies.

MEMBERSHIP OF PROFESSIONAL SOCIETIES

- Life Membership of the Indian Science Congress Associations (**ISCA**)
- Life Membership of The Palaeontological Society of India, Lucknow (**PSI**)

SCIENCE NEWS

- <https://dst.gov.in/indian-scientists-refute-earlier-find-fossil-earliest-animal-bhimbetka>
- <https://pib.gov.in/PressReleaseDetailm.aspx?PRID=1932919>

EXTRA-CURRICULAR ACTIVITY

- Live phone-in educational talk on the topic: **Evolution of Life** on educational FM radio Gyanvani, Lucknow governed by **Ministries of HRD and Information & Broadcasting** on 10th March 2018 at 7.00 PM.
- Given a talk on “**Origin of life and journey towards the emergence of first animal**” under **Pre-Event-Outreach Programme** of India International Science Festival (IISF) **2018**. (28th September 2018)
- Given talk on “**Origin of Life & When the LIFE got BIG!**” under **National Science Day** on 28th February 2019.
- Given interview on “**Secret of Vindhyan hill ranges**” on ‘Live History India’ available on You-tube online platform. <https://www.youtube.com/watch?v=C4laCgr43wE>

(Dr. Santosh Kumar Pandey)