**CURRICULUM VITAE OF Dr. VANDANA PRASAD**


**Name** : Vandana PRASAD
**Present Position** : Scientist-E
**E.mail** : prasad.van@gmail.com


**Educational Qualifications** : M.Sc., Ph.D, (Botany).

**Research interest**

- Evolutionary history of tropical rain forest and paleobiogeographic studies
- High resolution biostratigraphy, biotic turnover, paleoenvironment and relative sea level change during Late Cretaceous-early Palaeogene (Dinoflagellate cysts, Palynofacies).
- Quaternary Paleoclimate studies (coastal-marine) utilizing Dinoflagellate cysts, Palynofacies and Phytolith proxies

**Sponsored Projects**

1. "**Reconstruction of Late Quaternary environments in Saurashtra and Mainland Gujarat: A study based on palynofacies Analysis**" (Sponsored by DST, New Delhi, No.SR/S4/ES-49/2003) **(PI)**
2. "**Quaternary sedimentary records of Baroda Window, Mainland Gujarat: A multidisciplinary approach**" (Sponsored by DST, New Delhi, No. SR/S4/ES-2/ BarodaWindow/P1/ 2005) **(Co PI)**

3. "**High resolution paleoclimatic studies from the Bay of Bengal"** MoES/36/OOIS/SIBER/07 (**CoPI**)
4."**Quantitative reconstruction of the Paleogene climate of paleo-equatorial region based on Indian palynological records"** (Sponsored by MoES, New Delhi, No MoES/P.O.(GeoSci)/36/2014. (PI) (Ongoing)

5**. "Pliocene Arctic Climate Teleconnections (PACT)"** MoES/Indo-Nor-PS-8/2015 (**CoPI**) (ongoing)

**Total citation of publication (Google Scholar)- 970**

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**Training Courses Attended**

1.Training Course in Geology, including two 7-day field trips to Nainital and Mirzapur areas to acquire basic knowledge in sedimentology, palaeontology, and field geology, April-June 1995 at Department of Geology, Lucknow University

2. Palynofacies techniques and its use in sedimentological framework to interpret sea level fluctuations of shallow marine successions, May-June 1998 Institute of Geology, Louis Pasteur University, Strasbourg, France.

3. Use of Transmission Electron Microscopy in the interpretation of biological data set especially from the organic matter rich sediments (lacking fossils), July, 1998, Institute of Geology, Louis Pasteur University, Strasbourg, France.

4. Contact Programme on Sequence Stratigraphy organized by Society of Petroleum Geophysicists, sponsored by the DST under SERC programme in Earth Sciences,
August 23-27, 1999, Dehra Dun.

5. Contact Programme on Sequence Stratigraphy organized by Society of Petroleum Geophysicists, sponsored by the DST under SERC programme in Earth Sciences, November, 16-25, 2004, Vadodara

**Visits/Awards/Recognition**

1. Visiting Scientist, Institute of Geology, University Louis Pasteur, Strasbourg, France, May-July, 1998.

2. **Meritorious Abstract award** for the paper entitled "Phytoliths as indicators of monsoonal variability during Mid-Late Holocene in Mainland Gujarat, Western India", *PAGES 2nd Open Science Meeting*, Beijing, China in August 2005.

3. Awarded '**Diamond Jubilee Medal-2006 & Citation**' by the BSIP for publishing papers of high quality in Refereed Journals.

4. Selected to attend 1st **In-House Science Meet of the Autonomous Institutions** under DST to present outstanding contribution in Paleoboatny held at Jawaharlal Nehru Centre for Advance Scientific Research, Bangalore, September 23-24, 2006.

5. Invited to be a member of the Indian delegation team of young scientist to participate in the **2nd Indo-American frontiers of Science symposium** organized by Indo-U.S Science and Technology Forum in partnership with the U.S. National Academy of Sciences to present outstanding contribution Irvine, California, January 2007.

6. **Best Poster Award** on"*Phytoplankton variability in Harshad Estuary, Saurashtra Coast and its implications in palaeomonsoonal fluctuations* at 'XXI Indian Colloquium on Micropalaeontology and Stratigraphy',BSIP, Lucknow November 2007.

7. Awarded **Smithsonian Fellowship** to undertake "comparative study of low latitude Palaeogene flora of India and South American subcontinents" at Smithsonian tropical Research institute, Panama, (May- June, 2007).

8. Nodal person in conducting a **International Earth Science Olympiad** entrance exam for college students in Lucknow (January, 2010).

9. Nominated as guide for **Summer Research Fellowship Programme** (Inspire/Kvyp) 2012, jointly sponsored by the three national science Academies of the country.

10. Research paper awarded **Prof S. K Singh Memorial Gold Medal** for Best paper published in the journal of Paleontological Society, India for 2012.

11. Member in the Indian delegation team to attend **Indo-German workshop on 'Environmental challenges in Asia** at GeoForschungs Zentrum Potsdam, 14-17 January, 2013, sponsored by DST and DFG.

**Invited talks**

1. "High resolution Biostratigraphy, Paleoocenographic, Paleoclimate and Taphonomic studies in Palynology" in DST sponsored Brain Storming Session on "Pre Quaternary Paleoclimatic "Paleontological Research in India- Future Directions" Department of Geology, Jammu University, 9-10$^{th}$ Oct, 2006.

2. "Climatic Shifts, Evolution, Extinction and Biotic Turnover in a 15My Time Span during northward journey of India" in Department of Science and Technology, New Delhi, July 24, 2007.

3. Young scientist participation and presentation on the topic " Holocene Studies" on the event of 50$^{th}$ anniversary of the Geological Society of India, Bangalore, October, 2008.

4. "Late Cretaceous-Early Paleogene: Cradle for tropical paleobiodiversity in a Brainstorming meet on "Out of India Hypothesis", New Delhi, November, 2008

5. " Palynological parameters as paleoclimatic proxies in Quaternary and deep times" in "Proxies for climate change studies" symposium organized by department of Marine Sciences, Goa University, 8-13$^{th}$ March, 2010.

6. "Phytoevolution revisited: Interpretation from Palaeobotanical studies from Indian subcontinent', Indian Academy of Sciences, Bangalore, 12-14 July, 2012.

**Publication (Abstracts not included)**

01 Uddandam P.R., **Prasad, V**., Rai, J. 2017. Dinoflagellate cyst distribution in sediments of western Bay of Bengal: Role of sea surface conditions. **Palaeogeography, Palaeoclimatology, Palaeoecology.**
***Impact factor: 2.525***

02 M.C, Manoj., Thakur, B., **Prasad V.** 2016. Rare earth element distribution in tropical coastal wetland sediments: a case study from Vembanad estuary, southwest India. **Arab J Geosci**, 9. 197.
***Impact factor: 1.224***

03 Patnaik, R., **Prasad, V**. 2016. Neogene Climate, Terrestrial Mammals and Flora of the Indian Subcontinent, **Proc Indian Natn Sci Acad**. 82, Spl Issue.

04 Srivastava, J., **Prasad, V**.2015. Effect of global warming on diversity pattern in Nypa mangroves across Paleocene–Eocene transition in the paleo-equatorial region of the Indian sub-continent. **Palaeogeography, Palaeoclimatology, Palaeoecology**. 429 1–12
***Impact factor: 2.525***

03. Thakur, B., Srivastava, J., Uddandam, P., M.C Manoj., **Prasad, V**. 2015. Role of sedimentary processes and environmental factors in determining the distribution pattern of diatoms and marine/terrestrial palynomorphs in a tropical coastal wetland. ***J Palaeont Soc India.*** 60. 71-84.
***Impact factor: 0.5***

04. Basumatary, S.K., Gogoi, B., **Prasad.V**. 2015. Charcateristic modern pollen assemblages in relation to vegetation types in the East Khasi Hills, northeast India. **Palynology**.
DOI: 10.1080/01916122.2015.1080199
***Impact factor: 1.064***

05. Rachna Raj., Chamyal, L.S., **Prasad, V**., Sharma, A., Tripathi, J.K., Verma P. 2015. Holocene climatic fluctuations in the Gujarat Alluvial Plains based on a multiproxy study of the Pariyaj Lake archive, western India. **Palaeogeography, Palaeoclimatology, Palaeoecology.** 421, 60-74
***Impact factor: 2.525***

06. Sridhar, A. Laskar, A., **Prasad, V**., Sharma, A., Tripathi, J.K., Balaji, D. 2014. Late Holocene flooding history of a tropical river in western India in response to southwest monsoon fluctuations: A multi proxy study from lower Narmada valley. **Quaternary International**. 371, 181-190
***Impact factor:2.067***

07. **Prasad, V**., Farooqui, A., Sharma, A., Phartiyal, B., Chakraborty, S., Bhandari, S., Rachna Raj., Singh, A. 2014.Mid–late Holocene monsoonal variations from mainland Gujarat, India: A multi-proxy study for evaluating climate culture relationship. **Paleogeogr.Paleoclmatol.Paleoclimatol.** 397, 38-51
***Impact factor: 2.525***

08. Saxena,A., **Prasad, V**., Singh, I.B., 2013. Holocene paleoclimate reconstruction from the phytolith of the lake-fill sequence of Ganga Plain. **Current Science**. 104 (8), 1054
***Impact factor: O.967***

09. **Prasad, V**., Singh, I.B., Bajpai, S., Garg, R., Thakur, B. & Singh, A. 2013. Palynofacies and sedimentology based high resolution sequence stratigraphy of the lignite bearing muddy coastal deposits of early Eocene age, Vastan lignite mine, Gujarat, India. ***Facies***. DOI 10.1007/s10347-012-0355-8**.**
***Impact factor: 1.690***

10. Farooqui , A., Gaur, A.S., **Prasad, V**. 2013. Climate, vegetation and ecology during Harappan period: Excavations at Kanjetar and Kaj, Mid-Saurashtra coast. ***J. Arch. Sci*** 40:2631-2647.
***Impact factor:* 1.91**

11. Bajpai, S., Prasad, G.V.R., **Prasad, V**., Krishna, J., Sarkar, A. 2012. Recent advances on Phanerozoic Biodiversity, bioevents and climate in India. ***Proc. Indian natn. Sci. Acad***, 78: 445-455.

12. Sharma, A., Kumar, K., **Prasad, V.** and Thakur, B. 2011. Diatom distribution and its relationship with water quality in the Mahi River Basin. ***Current Science***, 101(8): 1011-1015.
    ***Impact factor: .967***

13. Thakur, B, **Prasad, V**. and Garg, R. 2012. Primary productivity and organic matter distribution during SW and NE monsoon: A case study from Alleppey mudbanks, Kerala, India. ***Current Science,*** 103 (7): 809-817.
    ***Impact factor: .967***

14. **Prasad, V,** Strömberg, C.A.E., Leaché, A.D., Samant, B., Patnaik, R., Tang, L., Mohabey, D.M., Ge, S. and Sahni, A. 2011. Late Cretaceous origin of the rice tribe provides evidence for early diversification in Poaceae, ***Nat. Commun***., 2:480 doi: 10.1038/ncomms1482.
    ***Impact factor: 11.329***

15. Garg, R., **Prasad, V.**, Thakur, B., Singh, I.B., Khowaja-Ateeqazazaman., 2011, Dinoflagellate cyst from the Naredi Formation, Southwestern Kutch, India: Implication on age and paleoenvironment. ***J Palaeont Soc India***, 56: 201-218.
    ***Impact factor: 0.5***

16. Gertsch, B., Keller, G., Adatte, T., Garg, R. **Prasad**, **V.,** Berner, Z., Fleitmann, D. 2011. Environmental effects of Deccan volcanism across the Cretaceous–Tertiary transition in Meghalaya, India, ***Earth Planet. Sci. Lett***., 310: 272–285.
    ***Impact factor: 4.326***

17. Clementz, M., Bajpai, S., Ravikant, V., Thewissen, J.G.M., Saravanan, N., Singh, I.B. and **Prasad, V.** 2011. Early Eocene warming events and the timing of terrestrial faunal exchange between India and Asia, ***Geology,*** 39: 15-18.
    ***Impact factor: 4.548***

18. **Prasad, V.**, Farooqui, A., Tripathi, S.K.M., Garg, R. and Thakur, B. 2009. Evidence of Late Paleocene-Early Eocene equatorial rain forest refugia in southern Western Ghats, India. ***J. Bio. Sci.,*** 34: 771-979.
    ***Impact factor: 1.888***

19. Nigam, R., **Prasad, V**., Mazumdar, A**.,** Garg, R., Saraswat, R. and Henriques, P. J. 2009. Late Holocene changes in hypoxia off the west coast of India: Micropalaeontological evidences. ***Curr. Sci.***, 96: 708-713.
    ***Impact factor: .967***

20. Mertens K.N., Verhoeven, K., Verleye, T., Louwye, S., Amorim, A., Ribeiro, S., Deaf, A.S., Harding, I.C., De Schepper, S., González, C., Kodrans-Nsiah, M., De Vernal, A, Henry, M., Radi, T., Dybkjaer, K., Poulsen, N.E., Feist-Burkhardt, S., Chitolie, J., Heilmann-Clausen, C., Londeix, L., Turon, J-L., Marret, F., Matthiessen, J., McCarthy,

F.M.G., **Prasad, V.,** Pospelova, V., Hughes, J.E.K., Riding, J.B., Rochon, A., Sangiorgi, F., Welters, N., Sinclair, N., Thun, C., Soliman, A., Van Nieuwenhove, N., Vink, A. and Young, M., 2009. Determining the absolute abundance of dinoflagellate cysts in recent marine sediments: The *Lycopodium* marker-grain method put to the test. ***Rev. Palaeobot. Palyno,*** 157: 238-252.
***Impact factor: 1.985***

21. Garg R, Khowaja-Ateequzzaman., **Prasad Vandana**, Tripathi S.K.M, Singh I.B., Jauhari A.K and Bajpai S. 2008. Age diagnostic dinoflagellate cysts from the lignite-bearing sediments of the Vastan Lignite mine, Surat district Gujarat, Western India. ***J Paleontological Society of India***, **53**, 99-105.
***Impact factor: 0.5***

22. **Prasad, V.,** Phartiyal, B. and Sharma, A. 2007. Evidence of enhanced winter precipitation and the prevalence of a cool and dry climate during the mid to late Holocene in mainland Gujarat, India, ***Holocene***, 17: 889-896.
***Impact factor: 2.135***

23. Singh V**, Prasad V,** & Chakraborty, S 2007**.** Phytolith as indicator of monsoonal variability during mid-late Holocene in Mainland Gujarat, western India, ***Curr. Sci.*** 92: 1754-1759.
***Impact factor: .967***

24. **Prasad V**, Garg R**,** Singh V & Thakur B 2007. Organic matter distribution pattern in Arabian Sea: Palynofacies analysis from the surface sediments off Karwar Coast (West Coast of India). ***Indian J. Marine Sci.*** 36: 399-406.

25. Saxena, A., **Prasad**, V., Singh, I.B., Chauhan, M. S. and Hasan, R 2006 On the Holocene record of phytoliths of wild and cultivated rice from Ganga Plain: evidence for rice-based Agriculture, ***Curr. Sci.*** 90: 1547-1552.
***Impact factor: .967***

26. **Prasad, V**., Garg, R., Khowaja-Ateequzzaman, Singh, I. B., Joachimski, M. M. 2006. *Apectodinium* acme and palynofacies characteristics in the latest Palaeocene- Earliest Eocene of Northern Eastern India: Biotic response to the Palaeocene-Eocene Thermal Maxima in Low Latitude***, J Palaeont Soc India,*** **51:**75-9.
***Impact factor: 0.5***

27. Garg, R., Khowaja-Ateequzzaman and **Prasad, V**. 2006. Significant dinoflagellate cyst biohorizons in the Upper Cretaceous-Palaeocene successions of the Khasi Hills, Meghalaya. ***J. Geol. Soc. India***, 67: 737-747.
***Impact factor: 0.596***

28. **Prasad, V.,** Stromberg, C.A.E., Alimohammadian, H, Sahni, A. 2005. Dinosaur coprolites and the early evolution of Grasses and Grazers. ***Science***, 310:1177-1180.
***Impact factor: 34.661***

29. Sarkar, S, **Prasad ,V,** 2003, *Koshaliaspermopsis*,a new fungal genus from the Subathu Formation, Himachal Pradesh,India, ***Palaeobotanist***, 52: 113-116.

30. Sarkar, S, Prasad,V, 2002, On the occurrence of *Ocimum* pollen grains from the Subathu Formation of Shimla Hills , Himachal Pradesh , India .***Palaeobotanist***, 51: 165-167.

31. Prasad, V, Sarkar, S, 2002, Fossil Scytonema (Nostocales) from the Subathu Formation of Tal valley, Garhwal Himalayas, India, ***J Palaeont Soc India***, 47: 145-149.
***Impact factor: 0.5***

32. Tripathi SKM, Saxena, RK, Prasad, V, 2000, Palynological investigations of the Tura Formation (Early Eocene) exposed along the Tura –Dalu Road, West Garo Hills, Meghalaya, India, ***Palaeobotanist***, 49, 239-251.

33. Sarkar, S, Prasad, V, 2000, Palaeoenvironment significance of dinoflagellate cyst assemblages from Subathu Formation (Ypresian to Lutetian) of Koshalia Nala Section, Shimla Himalaya, India, ***Himalayan Geology***, 21, 167-176.

34. Sarkar, S, **Prasad, V**, 2000, Dinoflagellate cyst biostratigraphy and depositional environment of the Subathu Formation (Late Ypresian-Middle Lutetian), Morni Hills Haryana India. ***J. Palaeont. Soc. India***, 5, 137-149.
***Impact factor: 0.5***

35. **Prasad, V**, Sarkar, S, 2000, Paleoenvironmental significance of *Botryococcus* (Chlorococcales) in the Subathu Formation of Jammu and Kashmir, India, ***Current Science***, 78, 682-68.
***Impact factor: .967***

36. Saxena, R.K, Tripathi, S.K.M, **Prasad, V**, 1996, Palynological Investigation of the Tura Formation (Palaeocene-Eocene) in Nongwal-Bibra area, East Garo Hills, Meghalaya, ***Geophytology***, 26(1), 19-31.

## General Scientific Articles published

**1. Prasad, V.** Laughing gas: A tearful future. Indian Express (25$^{th}$ Oct).2001

**2. Prasad, V.** Methane hydrate: Future friend or foe, Indian Express (6$^{th}$ Dec), 2001

**3. Prasad, V.** Greenhouse lessons from fossils. Indian Express (24$^{th}$ Jan), 2002.