

## INDIAN IGCP 587 ANNUAL REPORT FOR 2011

### Field work

Field work in Marwar Supergroup, Rajasthan (January 2011)

Field work in Vindhyan Basin, Madhya Pradesh (October 2011)

### Conferences attended and papers presented

(1) National Seminar on Geodynamics and Metallogenesis of the Indian Lithosphere. sub theme- **Origin and Evolution of Purana and Gondwana Sedimentary Basin.**

**Occurrence of the Neoproterozoic and Ediacaran palaeobiological remains in the Purana basins of Peninsular India: Implications for the age of the Kurnool, Bhima and Vindhyan basins** by Mukund Sharma

(2) XXIII Indian Colloquium on “**Micropalaeontology and Stratigraphy (ICMS) and International Symposium on Global Bioevents in the Earth History**” in Bangalore from December 9-11, 2011. Key Note presentation “**Precambrian Micro & Macrofossils and Mesoproterozoic Biostratigraphy**” by Mukund Sharma

(3) **Is the Kurnool Group Mesoproterozoic or Neoproterozoic? Palaeobiological constraints** by Mukund Sharma and Yogmaya Shukla

(4) **Fossil lagerstätten and an age assessment of the Nagaur Sandstone, Marwar Supergroup** by Mukund Sharma and S.K. Pandey

(5) **World Conference on Palaeontology and Stratigraphy (WCPS2011)** from 28<sup>th</sup> November-02<sup>nd</sup> December at Nakhon Ratchasima Province, Northeastern Thailand paper presented **Ichno-fossils and macrofossils from the Precambrian-Cambrian Marwar Supergroup, India** by Mukund Sharma and S. K. Pandey

### Papers submitted/accepted/published

1. N. Ryan McKenzie, Nigel C. Hughes, Paul M. Myrow, Shuhai Xiao, Mukund Sharma 2011. Correlation of Precambrian–Cambrian sedimentary successions across northern India and the utility of isotopic signatures of Himalayan lithotectonic zones. *Earth and Planetary Science Letters* 312: 471-483.

2. Mukund Sharma and Yogmaya Shukla 2011. Megascopic carbonaceous compression fossils from the Neoproterozoic Bhima basin, Karnataka, south India. In; Bhat G. M., Craig J. Thurow, J. W. Thusu, B. and Cozzi, A. (eds.) *Geology and Hydrocarbon potential of Neoproterozoic-Cambrian Basins in Asia*. Geological Society, London Special Publication 366. **(Accepted)**.

3. Mukund Sharma and Yogmaya Shukla 2011. Occurrence of helically coiled microfossil *Obruchevella* in the Owk Shale of the Kurnool Group and its significance. *Journal of Earth System Science*. **(Accepted)**.

4. V. N. Sergeev, Mukund Sharma and Yogmaya Shukla 2011. Fossil Proterozoic Cyanobacteria. *BSIP Monograph-4*. 383 pp **(Accepted)**.

S. Kumar and Mukund Sharma 2011. Vindhyan Basin, Son Valley area, Central India. Field Guide Book-4, Paleontological Society of India, Lucknow, 145 pp. (Accepted ;to be released in March 2012).

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