

## RESEARCH PUBLICATIONS

### *Papers Published*

- Ahmad, T. Harris, N.B. W., Islam, R., Khanna, P.P., Sachan, H.K. & Mukherjee, B.K. 2005. Contrasting mafic magmatism in the Shyok and Indus Suture zone: geochemical constraints. *Him. Geol.*, 26 (1), 34-40.
- Azmi, R.J. & Paul, S.K. 2004. Discovery of Precambrian-Cambrian boundary protoconodonts from the Gangolihat Dolomite of Inner Kumaun Lesser Himalaya: Implication on age and correlation. *Curr. Sci.*, 86, 1653-1660.
- Bartarya, S.K. & G. Philip, 2004. Identification of Aquifers for Ground Water Exploration in Hilly Terrain of Uttaranchal, Lesser Himalaya. *Him. Geol.*, 25 (2), 129-138.
- Choubey, V.M., Bartarya, S.K. & Ramola, R.C. 2004. Radon variations in an active landslide zone from Himalaya: A preliminary study. In: 3<sup>rd</sup> International symposium on Radiation Education (JERI-ISRE04). Japan Atomic Energy Research Institute. Nagasaki (Japan), 224-230.
- Choubey, V.M., Mukherjee, P.K. & Ramola, R.C. 2004. Radon variation in spring water before and after Chamoli earthquake, Garhwal Himalaya, India. In: Proceeding of 11th International Congress of the international Radiation Protection Association. Madrid, Spain, 1-7.
- Dobhal, D.P., 2004. Retreating Himalayan Glaciers – An Overview, In: Brain storming Session on Receding Glaciers in Himalayan region (IHR) – Environmental and Social Implication. GB Pant Institute of Himalayan Environment and Development, Kosi-Katarmal, Almora, India, Spl. Issue, 26-38.
- Dobhal, D.P., Gergan, J.T & Thayyen, R.J. 2004. Recession and morphogeometrical Dokriani glacier (1962-1995), Garhwal Himalaya, India, *Curr. Sci.*, 86 (5), 692-69
- Dubey, A.K. 2004. Formation of decollement upwarps during thrusting. *Terra Nova*, 16 (3), 91-94.
- Dubey, A.K. 2005. Displacement paths around geological structures obtained from model deformation experiments: implications for GPS studies in the active Himalayan orogenic belt. *Him. Geol.*, 26 (1), 199-204.
- Dubey, A.K. & Bhakuni, S.S. 2004. Development of extension faults on the oblique thrust ramp-hanging wall: example from the Tethys Himalaya. *J. Asian Earth Sci.*, 23, 427-434.
- Dubey, A.K., Bhakuni, S.S. & Selokar, A.D. 2004. Structural evolution of the Kangra recess, Himachal Himalaya; a model based on magnetic and petrofabric strains. *J. Asian Earth Sci.* 24, 245-258.
- Dubey, A.K. & Jayangondaperumal, R. 2005. Pop-up klippen in the Mussoorie Syncline Lesser Himalaya: evidence from field and model deformation studies. In: Saklani, P.S. (ed.), Himalaya (Geological Aspects). Satish Serial Publishing House, Delhi., 3, 203-222.
- Gupta, V. & Bist, K.S. 2004. The 23 September 2003 Varunavat Parvat Landslide in Uttarkashi township. Uttaranchal. *Curr. Sci.*, 87 (11), 1600-1605
- Hughes Nigel, Sanchi Peng, Bhargava, O.N., Ahluwalia, A.D., Walia Sandeep, Myrow Paul, M. & Parcha, S.K. 2005. Cambrian biostratigraphy of the Tal Group, Lesser Himalaya, India and early Tsanglangpuian (late Early Cambrian) trilobites from the Nigali Dhar syncline. *Geol. Mag.* 142 (1), 57- 80
- Islam R., Ahmad T. & Khanna P.P. 2005. An overview on the granitoids of the NW Himalaya. *Him. Geol.*, 26(1), 49-60.
- Juyal, N., Pant, R.K., Basaviah, N., Yadava, M.G., Saini, N.K. & Singhvi, A.K. 2004. Climate and seismicity in the Higher Central Himalaya during 20-10 ka: evidence from the Garbyang basin, Uttaranchal, India. *Palaeogeogr. Palaeoclim. Palaeoecol.*, 213, 315-330.
- Kumar, R., Ghosh, S.K. & Sangode, S.J. 2004. Depositional environment of Mio - Pleistocene coarse clastic facies in the Himalayan foreland basin, India. *Him. Geol.*, 25, 101-120.
- Kumar, R. Sangode, S.J. & Ghosh, S.K. 2004. A Multistory sandstone complex of the Himalayan foreland basin, NW Himalaya, India. *J. Asian Earth Sci.*, 23, 407-426.
- Kumaravel, V., Sangode, S.J., Kumar, R & Siva Siddaiah, N. 2005. Magnetic Polarity Stratigraphy of Plio-

- Pleistocene Pinjor Formation (Type Locality), Siwalik Group, NW Himalaya, India. *Curr. Sci.*, 88(9), 1453-1461.
- Lokho Kapesa, Raju, D.S.N., Kumar Gopendra & Venkatachalapathy, R. 2004. Stratigraphic tables for Northeast Basins of India: with brief notes compiled by D.S.N. Raju. *Ind. J. Petrol. Geol.*, 13, (1), 79-96.
- Lokho Kapesa, Venkatachalapathy, R. & Raju, D.S.N. 2004. Uvigerinids and associated foraminifera: their value as direct evidence for shelf and deep marine paleoenvironments during Upper Disang of Nagaland, Northeast Himalaya and its implication in hydrocarbon explorations. *Ind. J. Petrol. Geol.*, 13, 1, 1-7.
- Mahajan, A.K. & Viridi, N.S. 2005. Landslide hazard zonation and risk analysis of Dharamsala town, Himachal Pradesh, Northwest Himalaya. *Landslide, Pub. Deptt. Disaster Management, Sastra Deemed Univ.* 51-80.
- Mahajan, A.K. & Viridi, N.S. 2005. Macro seismic study of shallow earthquakes in the Himachal & Garhwal Himalaya, NW Himalaya. *Geol. Soc. Ind., Spl. Pub.*, 85, 205-216.
- Mamtani, M.A., and Arora B.R. 2005. Anisotropy of the magnetic susceptibility- a useful tool for the analyses of mutually deformed rocks. *Him. Geo.* 26, 175-186.
- Mazari, R.K. & Sah, M.P. 2004. Pulia Nal cloudburst of July 16, 2003, District Kullu, Himachal Pradesh: lesson for policy implementation. *Him. Geol.*, 25 (2), 153-161.
- Nanda, A.C. & Sahgal, R.K. 2005. Some faunal discrepancies and recent advances in the stratigraphy of the Siwalik Group, NW Himalaya. *Assoc. Petrol. Geol., Spl. Pub.* (eds. D.S.N. Raju et al.), 86-91.
- Nanda, A.C. & Sehgal, R.K. 2005. Recent advances in Palaeontologic and Magnetostratigraphic aspects of the Siwalik Group of Northwestern Himalaya. *Him. Geol.*, 26 (1), 93-102.
- Nummela, S., Thewissen, J.G.M., Bajpai, S., Hussain, S.T. & Kumar, K. 2004. Eocene evolution of whale hearing. *Nature*, 430, 776-778.
- Pandey, A.K., Sachan, H.K. & Viridi, N.S. 2004. Exhumation history of a shear zone constrained by microstructural and fluid inclusion techniques: an example from Satluj valley, NW Himalaya, India. *J. Asian Earth Sci.*, 23, 391-406.
- Pant, P.D. & Luirei K. 2005. Amiya Landslide in the Catchment of Gaula River, Southern Kumaun, Uttaranchal. *J. Geol. Soc. Ind.*, 65 (3), 291-295.
- Parcha, S.K. 2005. Biostratigraphic studies and correlation of the Middle Cambrian Successions of Northwestern Kashmir Himalaya. *J. Geol. Soc. Ind.*, 65 (2), 183-196.
- Parcha, S.K., Singh, B.P. & Singh, Birendera P. 2005. Paleocological significance of Ichnofauna from the Early Cambrian succession of the Spiti valley, Tethys Himalaya, India. *Curr. Sci.*, 88 (1), 158-162.
- Philip, G. & Sah, M.P. 2004. Mapping of glacier landforms using IRS-1C/D data: A Case Study of Shaune Garang Glacier, Baspa Valley of Northwestern Himalaya. *Int. J. Applied Earth Obser. Geoinf.*, 6 (2), 127-141.
- Rai, H. 2005. An ophiolite sequence in the Indus Suture Zone of the eastern Ladakh, India. *Him. Geol.*, 26(1), 41-47.
- Rai, H. & Rao, D.R. 2005. Geochemical and isotopic studies of the granitoids exposed on the southern slope in the Sasoma-Saser Brangra section of Karakoram Batholith, Jammu and Kashmir. *J. Geol. Soc. Ind.*, 65, 325-334.
- Rajkumar, V., Siva Siddaiah, N, Sangode, S.J, Kumaravel, V., Juyal, K.P. & Mathur, N.S. 2005. Preliminary Paleomagnetic Results of the Kakara-Subathu in Dogadda area (Uttaranchal), NW Himalaya. *Him. Geol.*, 26(1), 103-108.
- Rajwani, Mahajan A.K. & Sharma U.K. 2004. Deforestation and Geo-environmental degradation in the Baner khad watershed, H.P., India. *Asian J. Water Environ. Pollution*, 2(1), 39-46.
- Ramola, R.C. & Choubey, V.M. 2004. Opportunity of radon therapy in India. *NTSI Newsletter*, 10, 7-8.
- Ramola, R.C., Negi, M.S. & Choubey, V.M. 2005. Radon, thoron and their progeny concentrations in dwellings of Kumaun Himalaya-survey and outcomes. *J. Envir. Radioactivity*, 79 (1), 85-92.
- Rana, R.S., Kumar, K. & Singh, H., 2004. Vertebrate fauna from the subsurface Cambay Shale (Lower

- Eocene), Vastan Lignite Mine, Gujarat, India. *Curr. Sci.*, 87(12), 1726-1733.
- Rao, D.R. Rai, H. & Kumar, Senthil J. 2004. Origin of oceanic plagiogranite in the Nidar ophiolitic sequence of eastern Ladakh, India. *Curr. Sci.*, 87 (7), 999-1005.
- Roa, Subba, P.B.V., Arora B.R. and Singh A.K., 2005. Electrical conductivity structure beneath Laccadive Ridge. *DCS Newsletter*, 15, 13-15.
- Sachan H.K., Mukherjee B.K., Ogaswara Y., Maruyama S., Ishida H. Muko A., Yoshika N, 2004. Discovery of Coesite from Indus Suture Zone (ISZ), Ladakh, India: Evidence for Deep Subduction. *Europ. J. Miner.*, 16, 235-240.
- Sachan, H.K., Mukherjee, B.K., Ahmad, T. 2005. Cold subduction of Indian continental crust: Evidence from Tso-Morari region, Ladakh India. *Him. Geol.*, 26 (1), 25-33.
- Sah, M.P. & Bartarya, S.K. 2004. Landslide Hazards in the Himalaya: Policy and Mitigation Measures. In: Valdiya, K.S. (ed.), *Coping With Natural Hazards*. Orient Longman, 165-179.
- Sangode, S.J. & Bloemendal, J. 2004. Pedogenic transformation of magnetic minerals in Plio-Pleistocene paleosols of the Siwalik Group, NW Himalaya, India. *Palaeogeogr. Palaeoclim. Palaeoecol.*, 212, 95-118
- Sanyal, P. Bhattacharya, S.K., Kumar, R., Ghosh, S.K. & Sangode, S.J. 2004. Mio-Pliocene monsoonal record from Himalayan foreland basin (Indian Siwalik) and its relation to the vegetation change. *Palaeogeogr. Palaeoclim. Palaeoecol.* 205, 23-41.
- Sarkar, I., Sriram V., Hamzehaloo H. & Khattri K.N. 2004. Sub-event analysis for the Tabas earthquake of September 16, 1978 using near field SH data. *Phys. Earth Planet. Inter.*, 151 (1-2), 53-76.
- Sharma, Rajesh 2004. Sulphide mineralization of Lesser Himalaya: Evidences for carbonic-aqueous immiscibility and mixing of the fluids. *Geological Surv. India Special Pub.*, 72, 239-246.
- Sharma, Rajesh 2005. Fluid processes during sulphide mineralisation in sedimentary succession of Lesser Himalaya. *Him. Geol.* 26 (1), 77-84.
- Singh, A.K, Singh, Bikramaditya, R.K. & Vallinayagam, G. 2004. Petrochemical characteristics of basalt from Kundal area, Malani Igneous Suite, West Rajasthan, India. *J. Ind. Mineral.*, 38 (2), 1-11.
- Singh, A.K & Vallinayagam, G. 2004. Geochemistry and petrogenesis of anorogenic basic volcanic-plutonic rocks of the Kundal area, Malani Igneous Suite, western Rajasthan, India. *Proc. Ind. Acad. Sci. (Earth Planet. Sci.)*, 113 (4), 667-681.
- Srivastava, D.C., Sahay Amit, Kumar, D. & Mukherjee, P.K. 2004. Origin and ductile shearing of the microgranitoid enclaves in the granulite-granitoid terrane around Devariya-bandanwara area, central Rajasthan, *J. Geol. Soc. Ind.*, 63, 587-610.
- Suresh, N., Ghosh, S.K., Kumar, R. & Sangode, S.J. 2004. Clay mineral distribution pattern in Late Neogene fluvial sediments of Subathu sub-basin, central sector of Himalayan foreland basin: Implication for provenance and climatic condition. *Sed. Geol.* 163, 265-278.
- Tewari, V.C. 2004. The Rise and Fall of Vendian Biota : IGCP 493. *J. Geol. Soc. Ind.*, 64 (6), 821-823.
- Tewari, V.C. 2004. Microbial diversity in Meso-Neoproterozoic Formations, with particular reference to the Himalaya. In: Seckbach, J.(ed.), *Origins*. Kluwer Academic Publication, The Netherlands, 515-528.
- Tewari, V.C. 2004. Palaeobiology and Biosedimentology of the stromatolitic Buxa Dolomite, India. *Life in the Universe*, Kluwer Academic Publishers, Printed in Netherlands, 249-250
- Tewari, V.C. 2004. Extraterrestrial impacts on Earth and extinction of life in the Himalaya. *Life in the Universe*, Luwer Publishers, Printed in Netherlands 245-248.
- Thakur, V.C. 2004. Active tectonics of Himalayan Frontal Thrust and Seismic hazard to Ganga plain, *Curr. Sci.*, 86 (11), 1554-1560.
- Thakur, V.C. 2005. Seismotectonic and earthquake geology aspect of Northwestern Himalaya. *Geol. Surv. Ind., Sp. Pub.*, 85, 61-70.
- Thakur, V.C. Pandey, A.K. 2004. Late Quaternary tectonic evolution of Dun in fault bend/propagated fold system, Garhwal Sub Himalaya, *Curr. Sci.*, 87 (11), 1567-1576.
- Thayyen, R.J., Gergan, J.T & Dobhal, D.P 2005. Lapse rate of slope air temperature in a Himalayan catchment- A study from Din Gad (Dokriani Glacier) basin, Garhwal Himalaya, India. *Bull.*

Glaciolo. Res., Japanese Society of Snow and Ice, 22, 19-25.

Tiwari B.N. 2005. Tertiary Vertebrates from Himalayan Foreland of India: an explication of late Eocene–Oligocene faunal gap. Sp. Vol. No 1. Palaeontol. Soc. Ind., Lucknow. 2, 141-154.

Tiwari Meera & Pant C.C. 2004. Neoproterozoic silicified microfossils in Infrakrol Formation of Lesser Himalaya, India. *Him. Geol.*, 25 (1), 1-21.

Tiwari, Meera & Pant, C.C. 2004. Organic-walled microfossils from the Neoproterozoic black phosphatic stringers in the Gangolihat Dolomite, Lesser Himalaya, India. *Curr. Sci.*, 87 (12), 1733-1738.

### ***Papers In-press/ Comm.***

Arora, B.R., Rawat, Gautam, Unsworth, Martyn.J. 2005. Constraining the deep structures of the NW Himalaya collision zone from electrical conductivity imaging (comm.)

Asthana, A.K.L. & Mundepe, A.K. Seismogenic landslides and their relationship with lineaments and subsidiary faults: an example of Chamoli and Rudraprayag area Garhwal Himalaya, IGA, Allahabad (In-press).

Asthana, A.K.L. & Pal, D. Morpho-tectonics, Landforms Development and Environmental Appraisal of Nayar Basin, Garhwal Himalaya, Uttaranchal, In: Rawat, M.S.S. (ed.), Resource Appraisal, Technology Application and Environmental Challenges in Central Himalaya (RATAEC) Srinagar (In-press).

Azmi R.J., Joshi Deepak, Tiwari B.N. Joshi M.N., Kshitij Mohan & Srivastava S.S. Age of the Vindhyan Supergroup of central India: an exposition of biochronology vs. radiochronology. BHU Micropalaeontology XIX Colloquium Volume (In-press).

Bagri, D.S. & Pal, D. Enhanced activity of natural hazards in Uttarkashi area – A case study from Bhagirathi and Jalkur river valleys with emphasis on treatment of degraded slopes and remedial measures to mitigate their impact. In: Sundriyal, Y.P.(ed.), Proceedings Volume of Convention of Indian Association of Sedimentologists (IAS-XX) Srinagar (In-press).

Bagri, D.S. Pal, D. Geoenvironmental hazards in the area around Uttarkashi and Tehri, Garhwal Himalaya. Proc. Nat. Sem. on new horizons in environmental

sciences and engineering in India, Bangalore University (In-press).

Bagri, D.S. Pal, D. Some aspects of slope failures, cloud bursts and flash floods in Uttarkashi and Tehri Districts – A case study from Bhagirathi and Bhilangana Valleys, Uttaranchal. In: Kharakwal, S.C. & Chauniyal, D.D. (eds.), Mountain Geomorphology - Multi dimensional Approach (In-press).

Banerjee, P. Inter-seismic geodetic motion and far-field co-seismic surface displacements caused by the 26<sup>th</sup> December 2004 Sumatra Earthquake observed from GPS data. *Curr. Sci.* (Comm).

Banerjee, P., Pollitz, FF & Burgmann, R. The Size and Duration of the Sumatra-Andaman Earthquake from Far-Field Static Offsets. *Sci.* (In-press).

Banerjee, P., Pollitz, FF & Burgmann, R. GPS Measurement of Static Far-Field Displacements and Slip Models of the 2004 Sumatra-Andaman Earthquake. *Sci.* (Comm).

Bartarya, S.K. Choubey, V.M. & Ramola, R.C. Radon Concentration in Groundwater of the NW Himalayan region: Effects of Aquifer Characteristics. *Hydrogeol. J.* (Comm).

Bartarya, S.K., Mazari, R.K. & Virdi, N.S. Bhimgoda slide of August 24, 1994 in the Siwalik rocks near Haridwar: A success story of Landslide Control Measures. In: Proc. Nat. Conf. on 'Natural Hazards (Earthquake and Landslides): Challenges, Prospects and Social Dimensions with focus on the State of Uttaranchal', Organised by IGC and WIHG from 26-28 December 2003 (In-press).

Chabak, S.K. & Sharma, PK. Finite difference scheme and analysis of boundary conditions for wave propagation in non-homogeneous layered medium. *Him. Geol.*, 26 (2) (In-press).

Gupta, V. Application of Lichenometry to the Slided Materials in the Higher Himalayan Landslide Zone: A Case Study. *Curr. Sci.* (Comm).

Gupta, V. Landslide Hazard Zonation Mapping in the Himalaya: A case study from Satluj Valley, Himachal Pradesh. In: Proc. Workshop on Environmental Geo-Hazards (Earthquakes, Landslides, Floods etc.)- Management and Mitigation Strategy for Himachal Pradesh. Organized during Science Popularization Year – 2004 at Baijnath, Palampur, Himachal Pradesh during June 1-2, 2004 (In-press).



- Gupta, V., Bist, K.S., Sharma, B.P. & Asthana, A.K.L. Varunavat Landslide Hazard in Uttarakhand Himalaya: its causes and risk assessment. In: Proc. Nat. Conf. on Natural Hazards (Earthquakes and Landslides) (In-press).
- Islam, R., Rao, D.R., Gururajan, N.S. Geochemistry of the Trans-Himalayan Lohit Plutonic Complex, Eastern, Arunachal Pradesh. Jour. Geol. Soc. India (In-press).
- Islam, R., Rao, D.R., Gururajan, N.S., Rai, H. & Khanna, P.P. Geochemistry, geochronology and petrogenesis of granitoids of Tso-Morari Crystalline Complex, Ladakh, India. Jour. Geol. Soc. Ind. (In-press).
- Joshi, Deepak, Azmi, R.J. & Srivastava, S.S. Evidence of earliest Cambrian calcareous skeletal algae from Tirohan Dolomite (Lower Vindhyan) of Chitrakoot: Age of the Vindhyan Supergroup, India. Curr. Sci. (Comm).
- Joshi, Deepak, Azmi, R.J. & Srivastava, S.S. Vendian-Early Cambrian age for the Lower Vindhyan: Biochronological constraints. J. Earth System Sci. (Comm).
- Jowhar, T.N. Computer programs for P-T calculations and construction of phase diagrams: Use of TWQ, WEBINVEQ and THERMOCALC. In: Proc. Annual general meeting of the Geological Society of India and National seminar on Antarctic Geoscience, Ocean-Atmosphere interaction and Paleoclimatology (In-press).
- Kamal & Mundepi, A.K. Estimation of Effective Soft Sediment Thickness for Seismic Microzonation in Dehradun city in North West Himalaya, India using ambient vibrations. J. Soil Dynamics Earthquake Engg. (Comm).
- Kapesa Lokho. Stratigraphic units, Lithology, Thickness and Paleoenvironments during the Cretaceous and Cenozoic of Northeast, India. Ind. J. Petrol. Geol., (Comm).
- Kumar, D., Sriram, V. & Khattri K.N. A study of source parameters, site amplification functions and QS from analysis of accelerograms of 1999 Chamoli earthquake, Himalaya. PAGEOPH (In press).
- Kumar, D., Sriram, V. & Khattri, K.N. Estimation of Source parameters and scaling law of seismic spectrum for the earthquakes in NW Himalaya. Curr. Sci. (Comm).
- Kumar, D., Sriram, V. Khattri, K.N. & Sarkar, I. Source Parameters, site amplification functions and  $Q_b$ , derived from accelerograms of 1991 Uttarkashi earthquake, Himalaya. Tectonophysics. (In-press).
- Kumar, K., Rana, R.S. & Paliwal, B.S. Osteoglossid and lepisosteid fish remains from the Paleocene Palana Formation, Rajasthan, India. Palaeontol., 48 (In-press).
- Kumar, Sushil, Dubey, A.K. & Chander, R. Simultaneous thrusting, strike slip faulting and normal faulting in Garhwal Himalaya, India, evidence for superimposed deformation of oblique fault ramps (Comm).
- Kumar, Sushil, Negish, H., Mori, J., Sato, T., Bodin, P. & Rastogi, B.K. The 2001 Bhuj earthquake, India, seismic image of the source zone and its implications for the rupture nucleation (Comm).
- Kumar, S., Wesnousky, S.G., Rockwell, T.K., Thakur, V.C. Briggs, R.W. & Jayangondaperumal, R. Paleoseismic evidence of great surface-rupture earthquake along the Indian Himalayan. J. Geophys. Res. (In-press).
- Kumaravel, V., Sangode, S.J., Siddaiah, N.S., Kumar, R. Rock magnetic characterization of pedogenesis in high energy sediment depositional condition: A case study from the Mio-Pliocene Siwalik sequence near Dehra Dun, NW Himalaya. Sed. Geol. (In-press).
- Luirei, K. Soft sediment deformational structures at Lalung, East Siang District, Arunachal Pradesh, India. Curr. Sci. (Comm).
- Luirei, K. Slope failures in the Main Boundary Thrust zone along Siang Valley between Pasighat and Rengging, East Siang District Arunachal Pradesh. J. Geol. Soc. Ind. (Comm).
- Luirei, K. Pant P.D. & Girish, C. Kothyari. Geomorphic evidences of neotectonic movements in Dharchula area, Northeast Kumaun; A perspective of the recent tectonic activity. J. Geol. Soc. Ind. (In-press).
- Mahajan, A.K & Viridi, N.S. Macroseismic Study of Shallow Earthquakes in the Himachal and Garhwal Himalaya, Northwest Himalaya, India. Spec. Vol. Indian Geological Congress (In-press).
- Mahajan, A.K., Ghosh, G.K. & Thakur, V.C. Statistical analysis of completeness of earthquake data of

northwest Himalayan region and its implication for seismicity evaluation (Comm).

Maiti, S., Sangode, S.J., Chakrapani, G.J. Spatial analysis of magnetic susceptibility to monitor heavy metal loading of soils in Delhi, India. *Envir. Geol.* (Comm).

Malik, J.N., Nakata, T., Philip, G., Suresh, N. & Viridi, N.S. Evidence of a large magnitude earthquake along Chandigarh Fault in the frontal Himalayan zone, NW India. *Geol.* (Comm).

Mazari, R.K. Outline geomorphology of the upper Bhagirathi basin, Garhwal region, Uttaranchal Himalaya. *Him. Geol.* (In-press).

Misra, D.K. Geological setting & neotectonic activity along the Lohit and Dibang Valleys, Eastern Arunachal Pradesh, India. *J. Asian Earth Sci.* (Comm).

Mishra, S., Sangode, S.J. Naik, S. Deo, R. Abbas, & Rajaguru, S.N. Three Early Acheulian Sites in India dated to the Matuyama Chron. *J. Human Evolu., Elsevier* (Comm).

Mrinalinee Devi & Singh, T. Morpho-tectonic setting of the Ganga Lake in Itanagar Capital Complex, Arunachal Pradesh (Comm).

Mundepi, A.K., Kamal & Pant, A.K. Estimation of site amplification at various lithounits in NW Himalaya, using horizontal to vertical ratio. *J. Geol. Soc. Ind.* (Comm).

Myrow, P.M., Snell, K.E., Hughes, N.C., Paulson, T.S., Heim., A. & Parcha, S.K. Cambrian Depositional history of the Zaskar valley region of Indian Himalaya: Tectonic implications. *J. Sed. Res.* (In-press).

Nanda, A.C. & Schleich, H.H. New Fossil Reptile records from the Siwaliks of North India. In: *Quaternary Int. Proc. Int. Conf. on Quaternary Climate, Tectonics and Environment of the Himalaya: comparison with other regions, Nainital, 2002* (In-press).

Nanda, A.C. & Sehgal, R.K. Geology and mammalian fauna of the Siwalik Group of northwest Himalaya: Recent investigations. In: *Proc. Conf. Human Origin, Genome of people of India, Anthropological Survey of India* (press).

Negi, P.S. Biodiversity assessment of Doon Valley and its ecological implication and importance for global conservation perspectives. *Ind. Forest.* (Comm.).

Negi, P.S. Forest resource of Doon Valley and its economic potential for global sustainable development. *J. Economic and Taxonomic Botany* (In-press).

Pandey, P., Rawat, R.S. & Jowhar, T.N. Structural state transformation in alkali feldspar: evidence for post-crystallization deformation from Proterozoic granite, Kumaun Himalaya (India). *J. Asian Earth Sci.* (In-press).

Pant, R.K., Phadtare, N.R., Chamyal, L.S. Juyal, N. Quaternary deposits in Ladakh and Karakoram Himalaya: a treasure trove of the paleoclimate records. *Curr. Sci.* (In-press).

Parcha, S.K. Sabins, S.V. & Saraswati, P.K. Taxonomic application of classification and regression tree (CART) and random forests (RF): A case study of Middle Cambrian trilobites (comm.).

Parcha, S.K. & Singh Birendra.P. Stratigraphic Significance of Ichnofossils in the Cambrian Biostratigraphy of the Zaskar region of Ladakh Himalaya, India (In-press).

Phadtare, N.R. & Pant, R.K. A century-scale pollen record of vegetation and climate history during the past 3500 years in the Pinder Valley, Kumaon Higher Himalaya, India. (Comm).

Philip, G. & John Mathew. Climato-tectonic impression on Trans-Himalayan lakes: A case study of Kyun Tso Basin of Indus-Suture Zone in NW Himalaya using remote sensing techniques. *Curr. Sci.* (Comm).

Philip, G. Sah, M.P. & Viridi, N.S. Active tectonics in part of Kangra valley, NW Himalaya. *Him. Geol.* (In-press).

Purohit, K.K., Mukherjee, P.K., Saini, N.K., Khanna, P.P. & Rathi, M.S. Geochemical survey of stream sediments from upper parts of Alaknanda-Bhilangana-Bhagirathi Catchments, Garhwal Himalaya. *Him. Geol.* (Comm).

Purohit, K.K., Mukherjee, P.K., Saini, N.K., Rathi, M.S. & Khanna, P.P. Geochemical Dispersion Pattern of Some Heavy Metals in Upper Alaknanda Catchment: application in mineral exploration and its environmental implications, *J. Geol. Soc. Ind.* (In-press).

Rana, R.S., Kumar, K. & Singh, H. Palaeocene vertebrate fauna from the Fatehgarh Formation of Barmer District, Rajasthan western India. *Proc. XIX ICMS* (Comm).

- Rana, R.S., Kumar, K., Loyal, R.S., Sahni, A., Rose, K.D., Mussell, J., Singh, H. & Kulshreshtha, S.K. Selachians from the Early Eocene Kapurdi Formation (Fuller's Earth), Barmer District, Rajasthan, India. *J. Geol. Soc. India* (In-press).
- Rao Subba, P.B.V., Arora, B.R., and Singh A.K. 2005. Magnetovariational studies over Lakshdeep Island, SW Margin of India (comm.)
- Rawat, R.S. Role of fluids in granitoid magmatism vis-à-vis and tungsten mineralization in the Himalayan Tectonics. In: Proceedings of 32<sup>nd</sup> International Geological Congress, Florence, Italy; Session G-14.03 – Nwew Development in Tin, Tungsten and other Rare metal deposits (Comm).
- Rawat, R.S. The Tsunami of 26<sup>th</sup> December 2004. *Sci. Report.* (Comm).
- Rühland, K.M., Phadtare, N.R., Pant, R.K., Sangode, S.J. & Smol, J.P. Cooling in down-slope peat ecosystems due to glacial melting in Higher Himalaya, India. (Comm).
- Sachan, H.K, Mukherjee, B.K. Bodnar, R.J. Methane (CH<sub>4</sub>) in Upper Mantle rocks from the Indus Suture Zone, Ladakh (India): Evidence From Fluid Inclusions and Raman Spectroscopy. *Lithos* (Comm).
- Sangode, S.J. & Kumaravel, V. Effect of burial and compaction on the soils from Dehradun basin: A Pedomagnetic approach. *Curr. Sci.* (Comm).
- Sangode, S. J., Kumar, R., Bloemendal, J., Satyanarayana, K. V. V. Towards modelling an ancient alluvial fan system using rock magnetic methods in the Late Cenozoic Siwalik sediments of NW Himalaya, India. *Sed. Geol.* (Comm).
- Sangode, S.J. & Mazari, R.K. Mineral Magnetic ratios in the Kioto Palaeolake, Spiti, NW Himalaya: Tectono-Climatic inferences. *J. Paleolimnology* (Comm).
- Sangode, S.J. Mishra, S. Naik, S. & Rajaguru, S. N. Magnetic Polarity Stratigraphy of the Acheulian sites from Indian subcontinent: Implications to early Hominin dispersal. *Quarter. Int., Elsevier* (Comm).
- Sharma B.P. & Asthana, A.K.L. Quaternary Sedimentation, Geomorphology and Neotectonic in Alaknanda Valley from Pipalkoti to Rudraprayag, Garhwal Himalaya, Uttaranchal. In: Proc. Vol. Convention of Ind. Assoc. of Sedimentologists (IAS-XX), Srinagar (In-press).
- Shukla, M., Tewari, V.C. & Babu, R. Microfossils from the Buxa Dolomite, West Siang district, Arunachal Lesser Himalaya, India and their significance. *Him. Geol. (Comm)*.
- Singh, A.K. Dolerite dykes of Kundal area in Neoproterozoic Malani Igneous Suite, Rajasthan, India – *J. Geol. Soc. Ind., Bangalore* (Comm).
- Singh, A.K. Petrography, geochemistry and petrogenesis of continental tholeiites from Abor volcanics of the Eastern Himalayan Syntaxial Bend. *Him. Geol. (Comm)*.
- Singh, A.K. & Vallinayagam, G. A note on high heat production granites from Kundal and Piplun areas, Malani Igneous Suite, Rajasthan. *J. Geol. Soc. Ind., Bangalore* (Comm).
- Singh, A.K., Singh, R.K. & Vallinayagan, G. Anorogenic acid volcanics in the Kundal area of Malani Igneous Suit, NW India, geochemical and petrogenetic studies, *J. Asian Earth Sci., (Press)*.
- Singh, Keser. The position and tectonic evolution of the MCT in Chamba and Kashmir region, NW Himalaya, *Curr. Sci* (Comm).
- Singh, T. Landslide Hazards in NE India: Perspective, Hazards Quantification and Knowledge Products fo Mitigation Strategies (Comm).
- Sinha, S., Sangode, S. J., Kumar, R. & Ghosh, S.K. Magnetostratigraphy calibration of the Neogene continental deposits in the Ravi re-entrant, west central sector of Himalayan foreland basin. *Him Geol. (In-press)*.
- Siva Siddaiah, N. & Sangode, S.J. Paleosol Development in the Himalayan Foreland Basin: A Linkage with Uplift, Sedimentation and Basin Subsidence. *Him. Geol. (In-press)*.
- Sriram, V., Kumar, Dinesh & K.N. Khattri. The 1986 Dharamsala earthquake of Himachal Himalaya- estimates of Source Parameters, average intrinsic attenuation  $Q_a$  and site amplification functions. *J. Seismol. (In press)*.
- Tewari, V.C. The rise and decline of the Vendian biota: Palaeobiological and stable isotopic evidence from the NW and NE lesser Himalaya, India. *Spec. Pub. of I.G.C.P. Project 493. Geol. Soc. London* (Comm).

- Tewari, V.C. Microfossils from the Buxa Dolomite, West Siang district, Arunachal Lesser Himalaya, India and their significance. Pal. Soc. Ind. (Comm).
- Tewari, V.C. & Sial, A.N. Neoproterozoic - Early Cambrian isotopic variation and chemostratigraphy of the Lesser Himalaya, India in Eastern Gondwana. Chem. Geol. Isotope Geosci. (In-press).
- Tewari, V.C., Katica D. Nevio P. Stenni B. & Recomboni, R. 2005. Peritidal sedimentary depositional facies and carbon isotope variations across K/T boundary carbonates at Padriciano, Trieste, Italy (Palaeoenv. Palaeoecol. Palaeogeogr.) (In-press).
- Thayyen, R.J., Gergan, J.T. & Dobhal, D.P. Monsoonal control on glacier discharge and Hydrograph characteristics, A case study of Dokriani glacier, Garhwal Himalaya, India. J. Hydrol., Elsevier (In-press).
- Thayyen, R.J., Gergan, J.T. & Dobhal, D.P. Role of Glaciers and snow cover on Headwater River Hydrology in Monsoon regime- Micro scale study of Din Gad catchment (Dokriani Glacier), Garhwal Himalaya, India. Curr. Sci. (Comm).
- Tiwari, B.N. Exotic murid rodent Parapodemus sp. from Middle Siwalik of Mohand, District Saharanpur - a harbinger of fossil micromammals from the area. Curr. Sci. (Comm).
- Tiwari, Meera & Parcha, S. K. Early Cambrian trace fossils from the Tal Formation of the Mussoorie Syncline, India. Curr. Sci. (Comm).
- Tosheva, Z., Kies, A., Bartarya, S.K. & Choubey, V.M. Radon and Radium Variation in groundwater of the Luxembourg: Hydrogeological Controls. (Comm).
- Verma, Priti & Sharma, Rajesh. Evolution of Nagthat Siliciclastic of Lesser Himalaya, India: Evidences from primary to re-equilibrated fluids and geochemical signatures in Tons valley. 19<sup>th</sup> HKT Vol. Japan (Comm).
- Verma, Priti & Sharma, Rajesh. Deposition and Evolution of Barite in the Neoproterozoic Siliciclastic rocks of Tons valley, Lesser Himalaya: Evidences from Fluid inclusion and S, Sr isotope signatures. Mineralium Deposita (Comm).

## TECHNICAL REPORT

- Arora, B.R. & Gupta, Vikram 2004. Establishment of Geotechnical Laboratory for landslide investigations and training of Manpower at WIHG, Dehra Dun. Project Completion Report submitted to the Department of Science and Technology (DST), Govt. of India, New Delhi.
- Bartarya, S.K. & Philip, G. 2004. Geohydrological feasibility report on the tube well site at Roshnabad in Industrial Estate, District Haridwar. Report submitted to SIDCUL.
- Bartarya, S.K. 2004. Geohydrological Feasibility report on the tube-well site at Ansari Road, District Dehradun. Submitted to Uttaranchal Pai Jal Nigam, 10p.
- Bartarya, S.K. 2004. Geohydrological Feasibility report on the tube-well site at IMA campus, District Dehradun. Submitted to Uttaranchal Pai Jal Nigam, 10p.
- Bartarya, S.K. 2004. Geohydrological Feasibility report on the tube-well site at Vijai Colony, District Dehradun. Submitted to Uttaranchal Pai Jal Nigam, 10p.
- Bartarya, S.K. 2004. Geohydrological Feasibility report on the tube-well site at Kedarwala, District Dehradun. Submitted to Uttaranchal Pai Jal Nigam, 10p.
- Bartarya, S.K. 2004. Geohydrological Feasibility report on the tube-well site at JeewanGarh Mehuwala Khalsa, District Dehradun. Submitted to Uttaranchal Pai Jal Nigam, 10p.
- Bartarya, S.K. 2004 Geohydrological Feasibility report on the tube-well site at Baluwala, Langha Road, District Dehradun. Submitted to Uttaranchal Pai Jal Nigam, 10p.
- Bartarya, S.K. 2004. Geohydrological Feasibility report on the tube-well site at proposed IT park, Sahastradhara Road, District Dehradun. Submitted to State Industrial Development Corporation Uttaranchal Ltd., 12p.
- Choubey, V.M. & Bartarya, S.K. 2004. Technical report of Scientific visits to Luxembourg University (Laboratoire Physique des Radiations). Submitted to National Research Funds, Luxembourg, 1-25.



