**DR. SHEIKH NAWAZ ALI**

Scientist 'C'

Birbal Sahni Institute of Palaeosciences,

53-University Road, Lucknow,

INDIA

**Education**

***Ph.D. (Geology) 2011***

***Thesis title:*** Late Quaternary Palaeoclimatic study using different proxies along the upper reaches of Pindar Valley, Kumaun Himalaya. University of Lucknow, Lucknow (U.P.)-India

***M.Sc. (Geology) 2006***; Dept. of Geology, University of Jammu, India

***B.Sc.*** (Geology, Zoology, Botany, English) 2004; G.G.M.Sc. College, University of Jammu, India.

**Employment history**

***Jan. 2016 – Present*** Scientist ‘C’, Birbal Sahni Institute of Palaeosciences, Lucknow, UP.

***Oct. 2013 – 2016*** Scientist ‘B’, Birbal Sahni Institute of Palaeosciences, Lucknow, UP.

***Oct. 2011 – Oct. 2013*** Post-Doctoral Fellow, Physical Research Laboratory, Ahmedabad.

***July 2009 – June 2011*** Senior Research Fellow, University of Lucknow, UP.

***June 2007 – July 20***09 Junior Research Fellow, University of Lucknow, UP.

***Research Experience***

***Post-Doctoral Research***: Physical Research Laboratory

Advisor: Dr. Navin Juyal

**Title**: *Chronology of Late Quaternary glaciations in the Shalang and Milam basins (Goriganga), Central Himalaya and its climatic implications.*

***Doctoral Research***: University of Lucknow

Advisor: Dr. Rameshwar Bali

**Thesis title**: *Late Quaternary Palaeoclimatic study using different proxies along the upper reaches of Pindar Valley, Kumaun Himalaya.*

**Research Interest**

My research interests focus on Quaternary geomorphology and palaeoclimatic reconstructions with emphasis on the dynamics of late Quaternary glaciations and climatic variability in Indian sub-continent. The methodology employed is based on geomorphological mapping, remote sensing supported by GIS environment, geochronology using optical dating and multiproxy studies to infer palaeoclimatic variability and the drivers.

# Research projects

1. **Department of Science and technology Young Scientist research project (Fast track)**

*Role:* ***Principal Investigator***

**Title:** Chronology and climatic implications of Late Quaternary glaciations in the upper Dhauliganga and Alaknanda valleys, Central Himalaya, India

1. **Department of Science and technology research project (Himalayan Glaciology)**

*Role:* ***Principal Investigator***

**Title:** Glacial chronology, Palaeoclimatic reconstruction and their climatic implications in the Thangu Valley, Sikkim Himalaya, India with special emphasis on luminescence characteristics of feldspar and quartz

**Publications**

1. Dubey J, Ghosh R, Agarwal S, Quamar MF, Morthekai P, Sharma RK, Sharma A, Pandey P, Srivastava V, Ali S Nawaz. 2017. Characteristics of modern biotic data and their relationship to vegetation of the Alpine zone of Chopta valley, North Sikkim, India: implications for palaeovegetation reconstruction. The Holocene (Accepted)
2. M.F. Quamar, S. Nawaz Ali, C.M. Nautiyal & S.K. Bera (2017). Vegetation and climate reconstruction based on a ∼ 4 ka pollen record from north Chhattisgarh, central India. Palynology. DOI: http://dx.doi.org/10.1080/01916122.2017.1279236
3. Pinkey Bisht , S. Nawaz Ali, Naresh Rana, Sunil Singh, Poonam, Y.P. Sundriyal, D.S. Bagri, Navin Juyal (2016). Pattern of Holocene glaciation in the monsoon-dominated Kosa Valley, central Himalaya, Uttarakhand, India. Geomorphology .

http://dx.doi.org/10.1016/j.geomorph.2016.11.023

1. R Bali, Imran Khan, S.J. Sangode, Amit K Mishra, S Nawaz Ali , Saurabh, K. Singh, Jayant K.Tripathi, Dhruv Sen Singh, P Srivastava (2016). Mid-to late Holocene climate response from the Triloknath palaeolake, Lahaul Himalaya based on multiproxy data. Geomorphology. doi:

10.1016/j.geomorph.2016.10.028

1. R Bali, M. S. Chauhan, AK Mishra, SN Ali, A Tomar, Imran Khan, DS Singh, P Srivastava (2016). Vegetation and climate change in the temperate-subalpine belt of Himachal Pradesh since 6300 cal. yrs. BP, inferred from pollen evidence of Triloknath palaeolake. Quaternary International. <http://dx.doi.org/10.1016/j.quaint.2016.07.057>.
2. P Pandey, SN Ali, AL Ramanathan, G Venkataraman (2016). Regional representation of glaciers in Chandra Basin region, western Himalaya, India. ; Geoscience Frontiers. <http://dx.doi.org/10.1016/j.gsf.2016.06.006>.
3. Rachna Raj, LS Chamyal, Navin Juyal, Binita Phartiyal, S Nawaz Ali, Biswajeet Thakur (2016). Late Quaternary fluvio-aeolian interaction: palaeoenvironment and palaeoclimatic conditions in the pediment zone of Vatrak River basin, western India.; Zeitschrift für Geomorphologie 60 (2), 151-169.
4. M.F. Quamar, SN Ali, Binita Phartiyal, P. Morthekai and Anupam Sharma (2016). Recovery of palynomorphs from the high-altitude cold desert of Ladakh, NW India: An aerobiological perspective.; Geophytology 46 (1), 67-73.
5. P Bisht, SN Ali, AD Shukla, S Negi, YP Sundriyal, MG Yadava, N Juyal (2015). Chronology of late Quaternary glaciation and landform evolution in the upper Dhauliganga valley,(Trans Himalaya), Uttarakhand, India. Quaternary Science Reviews 129, 147-162.
6. R Bali, SN Ali, SK Bera, SK Patil, KK Agarwal, CM Nautiyal (2015). Impact of Anthropocene Vis-à-vis Holocene Climatic Changes on Central Indian Himalayan Glaciers. Engineering Geology for Society and Territory-Volume 1, 467-471.
7. P  Morthekai, SN Ali, 2014. Luminescence dating using quartz – for end-users. Gondwana Geological Magazine 29. *1-10.*
8. SP Sati, SN Ali, N Rana, F Bhattacharya, R Bhushan, AD Shukla, YP Sundriyal, N Juyal (2014). Timing and extent of Holocene glaciations in the monsoon dominated Dunagiri valley (Bangni glacier), Central Himalaya, India. Journal of Asian Earth Sciences 91, 125-136.
9. SN Ali, Mayank Shekhar, Pratima Pandey, Anshuman Bhardwaj, Shaktiman Singh (2014). Indian Himalayan capacity and adaptation programme: capacity-building in Himalayan glaciology. Current Science 106 (3), 346.
10. SN Ali and N Juyal (2013). Chronology of late quaternary glaciations in Indian Himalaya: A critical review. Journal of the Geological Society of India 82 (6), 628-638.
11. SN Ali, RH Biswas, AD Shukla, N Juyal (2013). Chronology and climatic implications of Late Quaternary glaciations in the Goriganga valley, central Himalaya, India. Quaternary Science Reviews 73, 59-76.
12. R Bali, SN Ali, KK Agarwal, SK Rastogi, K Krishna, P Srivastava (2013). Chronology of late Quaternary glaciation in the Pindar valley, Alaknanda basin, Central Himalaya (India). Journal of Asian Earth Sciences 66, 224-233.
13. KK Agarwal, C Prakash, SN Ali, N Jahan (2012). Morphometric analysis of the Ladhiya and Lohawati river basins, Kumaun Lesser Himalaya, India. Zeitschrift für Geomorphologie 56 (2), 201-224.
14. R Bali, KK Agarwal, SN Ali, SK Rastogi, K Krishna (2012). Drainage morphometry of Himalayan Glacio-fluvial basin, India: hydrologic and neotectonic implications. Environmental Earth Sciences 66 (4), 1163-1174.
15. R Bali, KK Agarwal, SN Ali, P Srivastava (2011). Is the recessional pattern of Himalayan glaciers suggestive of anthropogenically induced global warming? Arabian Journal of Geosciences 4 (7-8), 1087-1093.
16. R Bali, KK Agarwal, SK Patil, SN Ali, SK Rastogi, K Krishna (2011). Record of neotectonic activity in the pindari glacier valley: study based on glacio geomorphic and AMS fabric evidences. Earth Science India 4 (1), 1-14.
17. SK Bera, S Nawaz Ali, R Bali, KK Agarwal (2011). Impact of pollen rain from the vegetation of alpine-subalpine belt as a reliable measure for palaeoclimatic interpretation: a case study from Pindari Glacier, Kumaun Himalaya, India. International Journal of Earth Sciences and Engineering 4, 101.
18. R Bali and SN Ali (2010). Dynamics of Pindari glacier during the last 600 years.; Current Science 99 (10), 1307
19. KK Agarwal, R Bali, SK Patil, SN Ali (2010). Anisotropy of magnetic susceptibility in the Almora crystalline zone lesser Himalaya, India: a case study. Asian Journal of Earth Sciences 3 (1), 1-10.
20. R Bali, KK Agarwal, SN Ali, SK Rastogi, K Krishna (2009). Monitoring recessional pattern of Central Himalayan Glaciers: some optimistic observations. Proc Ind Sci Cong 96, 79-80.