

## Curriculum vitae

Dr. K G Misra  
Scientist C  
Birbal Sahni Institute of Palaeosciences  
53, University Road  
Lucknow-226007, Uttar Pradesh, India  
Phone: +91-522-2742996  
Tele fax: +91-522-2740098, 2740485  
Mob: 9453435893, 9450791944  
E-mail: [krishbsip@gmail.com](mailto:krishbsip@gmail.com), [kgmisrabsip@gmail.com](mailto:kgmisrabsip@gmail.com), [kg\\_misra@bsip.res.in](mailto:kg_misra@bsip.res.in)



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### **Educational qualification:**

- **Ph.D.** in Geology in 2010 from the Centre of Advance Study in Geology, Lucknow University, Lucknow. Thesis entitled “Tree-ring based climate reconstruction in western Himalaya: Implications for river-flow changes.
- **M.Sc.** in Geology from Lucknow University in 2004 with first division.
- **B.Sc.** in Geology, Botany and Zoology from Lucknow University in 2002 with first division.
- **Intermediate** in 1999 with first division.
- **High School** in 1997 with first division.

### **In house Project title:**

Holocene climate records and ecological response of trees from western Himalaya, India

### **Sponsored Project title:**

SERB-DST sponsored Project entitled “Developing snowfall reconstruction for the Lahaul-Spiti region and its association with glacier dynamics”.

### **Research interests and Experience:**

- Research interest mainly focused on palaeoclimatic reconstructions and ecology of high altitude trees of diversified geographical parts of western Himalayas based on tree-ring data as a proxy record. Trying to establish the impact of natural or anthropogenic pressures over climate variability and ecosystem.
- Long-term behavior of glaciers from western and northwestern Himalaya
- Climate extreme events and their recurrence behavior over the last millennium

## Grants and Fellowships:

- INQUA grant for young researcher to attend 19<sup>th</sup> INQUA Congress, Nagoya, Japan in 2015.
- INQUA grant for young researcher to attend 17<sup>th</sup> INQUA Congress, Cairns, Australia in 2007.
- Junior Research Fellowship of Department of Science and Technology, New Delhi, India from November 2004 to April 2006.
- Senior Research Fellowship of Department of Science and Technology, New Delhi, India from January 2007 to 28 July 2008.
- Birbal Sahni Research Associateship from 29<sup>th</sup> July, 2008 to 14<sup>th</sup> September 2008.

## Publications:

- Yadav, R.R., Gupta, A.K., Kotlia, B.S., Singh, V., **Misra, K.G.**, Yadava, A.K., Singh, A.K. 2017. Recent wetting and glacier expansion in the northwest Himalaya and Karakoram. *Scientific Reports* doi:10.1038/s41598-017-06388-5.
- Singh, V., Yadav, R.R., Gupta, A.K., Kotlia, B.S., Singh, J., Yadava, A.K., Singh, A.K., **Misra, K.G.** 2017. Tree ring drought records from Kishtwar, Jammu and Kashmir, northwest Himalaya, India. *Quaternary International* 444, 53-64.
- Yadava, A.K., Sharma, Y.K., Dubey, B., Singh, J., Singh, V., Bhutiyani, M.R., Yadav, R.R., **Misra, K.G.** 2017. Altitudinal treeline dynamics of Himalayan pine in western Himalaya, India. *Quaternary International* 444, 44-52.
- Singh, N.D., Yadav, R.R., Venugopal, N., Singh, V., Yadava, A.K., **Misra, K.G.**, Singh, T.B., Sanjita, C. 2016. Climate control on ring width and intra-annual density fluctuations in *Pinus kesiya* growing in a sub-tropical forest of Manipur, Northeast India. *Trees* 30, 1711-1721.
- Yadava, A.K., Yadav, R.R., **Misra, K.G.**, Singh, J., Singh, D. 2016. Tree ring evidence of late summer warming in Sikkim, northeast India. *Quaternary International* 371, 175-180.
- **Misra, K.G.**, Yadav, R.R., Misra, S. 2015. Satluj river flow variations since AD 1660 based on tree-ring network of Himalayan cedar from western Himalaya, India. *Quaternary International*, 371, 135-143.
- Yadav, R.R., **Misra, K.G.**, Yadav, A.K., Kotlia, B.S., Misra, S. 2015. Tree-ring footprints of drought variability in last ~300 years over Kumaun Himalaya, India and its relationship with crop productivity. *Quaternary Science Reviews* 117, 113-123.
- Misra, S., Kanungo, A.K., **Misra, K.G.** 2015. History, Science & Technology of stone beads. Published online in Journal of Geological Society of India. ([www.geosocindia.org/public/journals/253/docs/Workshop\\_Report.pdf](http://www.geosocindia.org/public/journals/253/docs/Workshop_Report.pdf)).
- Dutta, P.K., Acharya, S.K., Jha, N., Khangar, R., Khasdeo, L., **Misra, K.G.**, Ramamamurty, B.V. 2015. Resolving Kamthi-related problems in Gondwana stratigraphy of peninsular India. *Indian Journal of geosciences* 69, 85-102.

- Misra, S. and **Misra, K.G.** 2014. Understanding the Life of Bygone Eras: Emerging Trends. *Journal of Geological Society of India*, 83, 471.
- Yadav, R.R., **Misra, K.G.**, Kotlia, B.S. & Upreti, N. 2014. Premonsoon precipitation variability in Kumaon Himalaya, India over a perspective of ~300 years. *Quaternary International* 325: 213-219.
- Yadav, R.R., **Misra, K.G.**, Kotlia, B.S. & Upreti, N. 2014. Age of Himalayan cedar outside its natural home in the Himalayas. *Current Science* 106: 932-935.
- **Misra, K.G.** and Misra, S. 2013. Old *Cedrus deodara* trees under acute threat of fire caused by shepherds in Chamba, Himachal Pradesh. *Journal of Geological Society of India*, 82, 442.
- Misra, S. and **Misra, K. G.** 2013. Palynology deciphering the past wetland biodiversity. In souvenir of National Seminar on climate change impacts on environments (NASCI-2013) Kamaraj College, Thoothkudi, Tamil Nadu. P 74-77.
- Misra, S. and **Misra, K. G.** 2013. Changing Status of Mangroves: A vital concern. In souvenir of National Seminar on climate change impacts on environments (NASCI-2013) Kamaraj College, Thoothkudi, Tamil Nadu. P 88-90.
- Misra, S. and **Misra, K.G.** 2013. A step ahead in science. *Journal of Geological Society of India*, 82, 302.
- Yadav, R. R., Singh, J., Dubey, B. and **Misra, K. G.** (2006). Hydrological variations in Lahul-Spiti, Himachal Pradesh, India during the past 800 years as inferred from tree rings. Proceedings of National seminar on *Disaster Management: Role of meteorology and allied disciplines*, Mahanti, N. C., Samal, S. K., Datta, P. and Nag, N. K. (eds.), Narosa Publishing House, New Delhi, India, 139-147.
- Yadav, R.R., Singh, J., Dubey, B and **Misra K. G.** (2006). A 1584-year ring width chronology of Juniper from Lahul, Himachal Pradesh: Prospects of developing millennia long climate records. *Current Science*, 90, 1122-1126.

### **Conference/Congress/Seminar attended and training acquired:**

- Participated in International Brainstorming session/workshop on Quaternary environments and climates: Focus on Holocene and Anthropocene held at Birbal Sahni Institute of Palaeosciences, Lucknow during 21-23 February, 2017.
- Attended 3<sup>rd</sup> NECLIME Asian Meeting on Neogene Climate evolution in Eurasia held at Birbal Sahni Institute of Palaeosciences, Lucknow from February 23-24, 2016.
- Attended 30<sup>th</sup> Himalaya-Tibet-Karakoram (HKT) workshop at Wadia Institute of Himalayan Geology, Dehradun from October 6-8, 2015.
- Participated in Refresher course on “Palaeontology and Biostratigraphy organized by GSI, Northern Region, Lucknow from 11-16 May, 2015.
- Attended XIX INQUA Congress on “Quaternary perspective on climate change, natural hazards and civilization” at Nagoya, Japan, from 26 July to 02 August, 2015

- Attended National Conference on Quaternary Climate Change: New Approaches and Emerging Challenges held at Birbal Sahni Institute of Palaeosciences, Lucknow. December 15-16, 2014.
- Attended Fifth National Conference on Climate Change organized by Indian Climate research Network (ICRN) held at IIT Delhi. December 19-20, 2014.
- Participated in coarse work on Paleosols from 6-7 & 11-12 November, 2013 at Birbal Shani Institute of Palaeosciences, Lucknow
- Attended International AvH Conference on Third Pole Demands Protection (HOPE-2013) from 12-14 september, 2013 at Uttarakhand Academy of Administration (ATI), Nainital organized by Humboldt House of Uttarakhand.
- Attended National Conference on Recent Developments in Plant and Earth sciences held at Birbal Sahni Institute of Palaeobotany, Lucknow from 28-29 November, 2013.
- Attended National Conference on Climate Change organized by Indian Climate research Network (ICRN) held at IIT Madras from 26-27 October, 2013.
- Participated in Conclave on “Evolution Life Continuum” September 15, 2009 at BSIP, Lucknow
- Participated in Training on Sedimentology and Sequence stratigraphy at BSIP from 26-31 October, 2009.
- Participated in Field seminar on Post Barakar stratigraphy in peninsular India organized by General Coal wing of the Geological Survey of India, Kolkata and Singerani Colliery, Andhra Pradesh from 21 – 30 June, 2009.
- Attended GEO India Conference and Exhibition “Investing in Geoscience to Secure the Future” 16-19 September 2008 – Expo XXI, Greater Noida, New Delhi, India.
- Attended XXI Indian colloquium on Micropalaeontology and stratigraphy (16-17 November, 2007) Birbal Sahni Institute of Palaeosciences, Lucknow, India.
- Attended 17<sup>th</sup> INQUA (International Union for Quaternary Research) Congress (28 July to 3 August, 2007) on The Tropics: Heat Engine of the Quaternary. Cairns convention centre, Cairns, Australia
- Attended Diamond Jubilee International Conference (15-17 November, 2006) on changing scenario in Palaeosciences and allied subjects. Birbal Sahni Institute of Palaeobotany, Lucknow, India
- Attended Diamond Jubilee National Conference (15-16 November, 2005) on Challenges in Indian Palaeobiology: Current status, resent developments and future directions. Birbal Sahni Institute of Palaeosciences, Lucknow, India
- Attended International Seminar on northward flight of India in the Mesozoic-Cenozoic: Consequences on biotic changes and basin evolution (7-9 December, 2005). Centre of advance study in Geology, Lucknow University, Lucknow, India.

**Students supervised:**

Masters dissertation: Three

Doctoral dissertation: One (continuing)

**Representation in Committees:**

- Member, organizing committee of International Brainstorming session/workshop on Quaternary environments and climates: Focus on Holocene and Anthropocene held at Birbal Sahni Institute of Palaeosciences, Lucknow during February, 2017.
- Member, organizing committee, National conference on quaternary climate change: New approaches and emerging challenges held at Birbal Sahni Institute of Palaeosciences, Lucknow during December, 2014.

**Academic Memberships:**

- Palaeontological Society of India, Lucknow
- The Society of Earth Scientists
- Association of Polar Early Career Scientist
- Young Earth Scientist Network
- The Paeobotanical Society, Lucknow