

Birbal Sahni Institute of Palaeosciences
Monthly summary on Research Activities
(July, 2021)

1. Areas of Focus:

The institute carries out research on fundamental as well as applied aspects of Palaeosciences that includes Evolutionary history of biota, Palaeoclimate, studies of past Civilization, Human history and contemporary Climate Change issues, following an integrated and multi-disciplinary approach.

Key research activities under following objectives:

- Understanding origin and evolution of life through time and space.
- Understanding climate change in recent and deep geological times.
- Understanding past civilization and human history.
- Application of Palaeosciences in exploration of fossil fuel and coal industry.

2. Important Highlights of Major Research Programmes

a) Hindi workshop (25th June, 2021)

Under aegis of Hindi workshop, Dr Arti Garg, Scientist-E, Botanical Survey of India, Prayagraj delivered a lecture on the topic “मध्य भारत की रामसर नमभूमियों की वानस्पतिक विविधता” on June 25th, 2021. The Hindi workshop was attended by all the scientists, research scholars and technical staff of institute.

b) Students Colloquium (2nd July -3rd July 2021)

Association of Quaternary Researchers (AOQR) organized an online colloquium of six hours, spread over two days, 2-3 July 2021. Post graduate students and research scholars of the Quaternary Sciences presented their research to a wide range of early career researchers, expert panellists and faculty members. In total, there were five sessions with 17 talks covering various themes in Quaternary research. Each session had a session chair and an exclusive peer scholar discussant for each talk, to ensure constructive discussions. The sessions were followed by a general discussion and summary which gave a good platform to

the young researchers of Quaternary Sciences to share their work and build engaging collaborations.

List of research publications (July, 2021)

- 1. Ghosh, R.,** Shukla, U.K., Srivastava, P., **Sharma, A.** (2021). Constraints of lithostratigraphy on the landscape evolution in response of erosion, climate and tectonics in the Marginal Ganga Plain, India. *Journal of Asian Earth Sciences*. Article no. 104892. DOI: 10.1016/j.jseas.2021.104892. **(Impact factor: 3.44).**
- 2. Quamar, M.F., Thakur, B., Singh, V.K., Pandey, S.K.** (2021). Pollen heteromorphism in *Schleichera* Lour. (Sapindaceae), observed in surface soil samples from central India. *Acta Palaeobotanica* 61(1), 32–41. DOI: 10.35535/acpa-2021-0003.
- 3. Quamar, M.F., Tiwari, P., Thakur, B.** (2021). The modern pollen–vegetation relationship in Jammu, India: a comparative appraisal. *Acta Palaeobotanica* 61(1): 1–19. DOI: 10.35535/acpa-2021-0001.
- 4. Yadav, A., Muneer, W., Lahajnar, N., Gaye, B., Misra, S., Jehangir, A., Ambili, A., Mishra, P.K.** (2021). Long term natural and anthropogenic forcing on aquatic system - evidence based on biogeochemical and pollen proxies from lake sediments in Kashmir Himalaya, India. *Applied Geochemistry*. Article no. 105046. DOI: 10.1016/j.apgeochem.2021.105046**(Impact factor: 3.52).**
- 5. Quamar, M.F., Bera, S.K.** (2021). A 8400-year pollen records of vegetation dynamics and Indian Summer Monsoon climate from central India: Signatures of Global Climatic Events. *Journal of Palaeontological Society of India* 66(1):12–22. **(Impact factor: 0.705).**
- 6. Saxena, A., Gupta, S., Singh, K.J., Murthy, S., Prakash, A., Singh, P.K.** (2021). Diversity of the Genus *Gangamopteris* McCoy in the Early Permian Sequences of Singrauli Coalfield, Son-Mahanadi Basin, India. *Journal of Palaeontological Society of India* 66(1): 23–34. **(Impact factor: 0.705).**

Photographs showing important highlights of major programs/research activities organized during July, 2021:



AOQR Student Colloquium 2021
2nd and 3rd July 2021

INVITATION

AOQR is happy to invite you to participate in its forthcoming Student Colloquium, 2021. The primary objective of this colloquium is to provide young researchers of Quaternary Sciences with a platform to share their work and build engaging collaborations. Each session has a session chair, and has an exclusive peer scholar discussant for each paper, to ensure constructive discussions and help to further develop the work presented by the researchers. Do join us and provide your valuable insights to help the upcoming generations of Quaternary researchers!

Day 1

INAUGURAL SESSION
Time 14:00 to 14:15

Opening Remarks by Dr. Vandana Prasad (President, AOQR)

Introduction of event by Dr. Binita Phartiyal (Secretary, AOQR)

SESSION 1: Terrestrial Processes through the Quaternary
Session Chair: Prof. L.S. Chamyal
Time 14:15 to 15:30

SESSION 2: Human - Climate Interaction and Geoarchaeology
Session Chair: Prof. Shanli Pappu
Time 15:30 to 16:30

SESSION 3: Indian Subcontinent: Last Two Thousand Years
Session Chair: Prof. Vishwas Kale
Time 16:30 to 18:00

Day 2

SESSION 4: Human - Climate Interaction and Geoarchaeology
Session Chair: Prof. Hema Achyutan
Time 14:00 to 15:30

SESSION 5: Oceanic Realms in Quaternary
Session Chair: Dr. Rajeev Nigam
Time 15:30 to 16:30

GENERAL DISCUSSION AND SUMMARY
Time 16:30 to 17:15

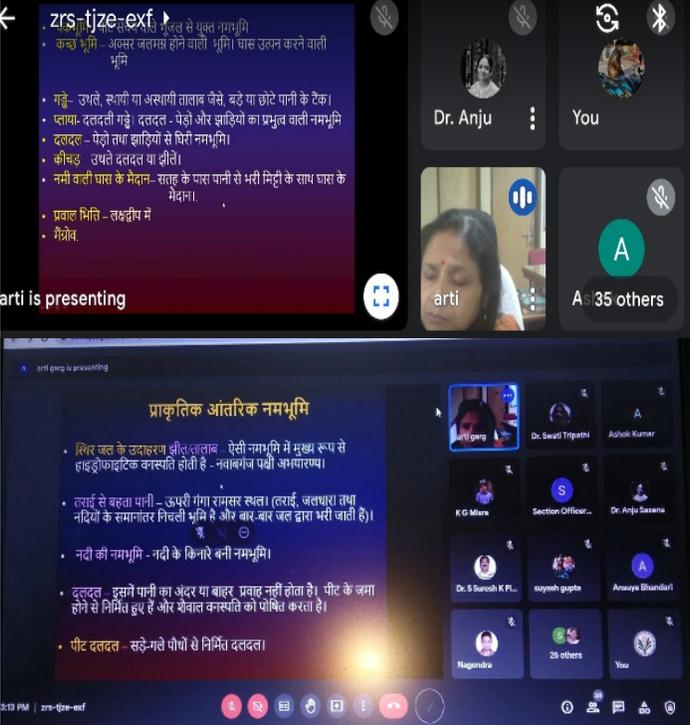
Valedictory and Conclusion of the AOQR Student Colloquium 2021
Time 17:15 to 18:00

Meeting Link
[www.meet.google.com/nqo-ocul-as](https://meet.google.com/nqo-ocul-as)



Organising Team

- Binita Phartiyal (Secretary, AOQR)
- Prabhin Sukumaran (Co-Secretary, AOQR)
- Linto Alappat (ECR, AOQR)
- Akash Srinivas (ECR, AOQR)



The screenshot shows a Zoom meeting in progress. The main window displays a presentation slide titled "प्राकृतिक आंतरिक नमभूमि" (Natural Internal Landforms). The slide content includes:

- खनिज भूमि का उदभव पर्वत भूतल से खनिज नमभूमि
- कच्छ भूमि - अक्सर जलमग्न होने वाली भूमि। घास उतारने वाली भूमि
- गड्डे- उभले, स्वामी या अस्थायी तालाब जैसे, बड़े या छोटे पानी के टैंक।
- ताला- दलदली गड्डे, दलदल - पेड़ों और झाड़ियों का प्रभुत्व वाली नमभूमि
- दलदल - पेड़ों तथा झाड़ियों से घिरी नमभूमि
- कीचड़ - उथले दलदल या झीलें।
- नमी वाली घास के मैदान- सतह के पास पानी से भरी मिट्टी के साथ घास के मैदान।
- प्रवाल भित्ति - लक्षद्वीप में
- गैंग्रेश

The meeting interface shows a grid of participants, including Dr. Anju, You, arti, and A 35 others. The bottom of the screen shows the Zoom control bar with a timestamp of 11:03 PM and the meeting ID zrs-tje-exf.