

## **ARIES, Nainital to organise online International Conference on ‘Aerosol Air Quality, Climate Change and Impact on Water Resources and Livelihoods in the Greater Himalayas’**

Mid-September brings an opportunity to witness a major online international conference on Aerosol Air Quality, Climate Change and Impact on Water Resources and Livelihoods in the Greater Himalayas. The conference will deliberate on rapid increase in air pollution associated with industrialisation and urbanisation and its resultant impacts on regional and global air quality, visibility degradation, cloud formation, and atmospheric chemistry, radiation budget, ecosystem, Himalayan climate, and glaciology, cryosphere, monsoon patterns, water availability, and human health --- important topics of discussion particularly in India, Nepal & Bangladesh.

Aryabhata Research Institute of Observational Sciences (ARIES), Nainital an autonomous research institute under the Department of Science and Technology (DST), Govt. of India and Hemvati Nandan Bahuguna Garhwal University, (HNBGU) (a central University) Srinagar, Pauri Garhwal, Uttarakhand, are planning to jointly organize the three-day online international conference on ‘Aerosol Air Quality, Climate Change and Impact on Water Resources and Livelihoods in the Greater Himalayas’ between 14<sup>th</sup> -16<sup>th</sup> September 2020. The international conference is being organized as a part of the celebration of Golden Jubilee Commemoration Year of DST. This is the first Online International conference to be held at ARIES, Nainital, during this Pandemic.

The invited speakers in the conference are from different parts of the globe and will deliver lectures under the themes: Growing air pollution over the Indo-Gangetic Plains and Central Gangetic Himalayan Region, Himalayan Glaciers, Climate Change impacts on Himalayan Glacier and monsoon over the Himalayas, Extreme events and so on. The reviewed presentations will be published on a Thematic Issue entitled “Aerosols-Climate interaction and water resources over the Himalayas” in the Journal of Earth System Science (JESS).

ARIES, Nainital, started research activities in the field of atmospheric science and climate change about two decades ago. It has installed a battery of modern instruments at Manora Peak, a strategically important location in the Central Himalayan region, for in situ measurements of various optical, physical and chemical properties of aerosols and trace gases. The ARIES has also established both national and international collaborations in these areas.

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*Figure 1: Conference Banner*

 Three Day Online International Conference on   
**Aerosol Air Quality, Climate Change and Impact on Water Resources and Livelihoods  
in the Greater Himalayas**  
(This International Conference is organised as a part of celebration of Golden Jubilee Commemoration Year of DST)

**Organized by**

**Aryabhata Research Institute of Observational Sciences (ARIES)**  
An autonomous institute under the Department of Science and Technology,  
Govt. of India), Nainital, Uttarakhand

In Collaboration with

**Department of Physics**  
**Hemvati Nandan Bahuguna Garhwal University (A Central University)**  
Srinagar, Pauri Garhwal, Uttarakhand

**Venue**  
**Aryabhata Research Institute of Observational Sciences (ARIES)**

**Dates**  
**14<sup>th</sup> -16<sup>th</sup> September, 2020**

The conference will be conducted through an online platform. The morning session will be from 10:00 AM to 1:00 PM and the afternoon session will be from 2:00 PM to 5:00 PM.

**Topics/Themes to be covered:**

- Atmospheric Aerosols, Aerosol Chemistry, Air Pollution
- Growing air pollution over Indo-Gangetic Plains and Himalayan Glaciers, Network Measurements
- Climate change impacts on Himalayan Glacier and Monsoon over the Himalayas
- Source apportionment in Indo-Gangetic Plain and Gangetic Himalayan Region
- Winter/Summer Crop burning and impact on Himalayan Resource
- Extreme Events (Dust Storms, Cloud Burst, Rainfall, earthquakes)
- Coupling of Ocean-Land and Himalayan
- Application of geospatial Techniques

**Last date for Registration and Abstract Submission: 06<sup>th</sup> September 2020**

**Publications: The reviewed presentation will be published on Thematic Issues in the Journal of Earth System Science**

You can mail at [icaries2020@gmail.com](mailto:icaries2020@gmail.com) for any type quarry.

*Figure 2: Conference Brochure*