



Open Workshop 14th December 2021 10:00 AM - 03:30 PM, IST



Workshop on

Biosphere- Atmosphere -Hydrosphere Interactions of Himalaya (Status, Challenges, and Way forward)

GBP NIHF G. B. Pant National Institute of Himalayan Environment . Kosi-Katarmal Almora, Uttarakhand (An Autonomous Institute of MoEF&CC, Gol)

The Indian Himalayan region (IHR) is a source to more than 03 million natural fresh water springs, more than 9500 glaciers storing about 12,000 km³ of freshwater, and having around **02 of 36** global biodiversity Hot Spots with 32% endemic flora. The IHR also represents diverse climatic zones, from tropical – sub-tropical to alpine - cold desert, which experience two precipitation regimes through summer monsoon and western disturbances. The extremely complex topography along with heterogeneously distributed forests of IHR results in non-linear forced interactions amongst biosphere – atmosphere –hydrosphere regimes. Moreover, these interactions are further expected to change under a warmer climate. Through in-depth scientific comprehension, numerical quantification of these interactions with knowledge of the gaps and challenges is extremely imperative. Therefore, this workshop, for celebrating 'Azadi Ka Amrit Mahotsava' and as part of the NMHS project 'Pine and Oak system of Himalaya: water, climate and plant biodiversity' is anticipated to bring together the researchers and planners of Himalaya on the interface of interacting regimes of Himalayan Biosphere-Atmosphere-Hydrosphere for better comprehension leading to pertinent policy prescriptions.

Chair : Prof. V. K. Gaur, **Distinguished Scientist, CSIR-4PI, Bangalore**

Invited speakers:

- Prof. S. N. Tripathi, IIT Kanpur; India
- Prof. Raghu Murtugudde, Uni. Of Maryland, USA
- Prof. A. P. Dimri, JNU, India
- Prof. S. Ghosh, IIT Bombay, India
- Dr. Sumit Sen, IIT Roorkee, India
- Dr. K. K. Osuri, NIT Rourkela

Organizing committee:

- Coordinator: Er. Kireet Kumar, Sc-G, Diector In-Charge, GBPNIHE
- Convener: Dr. Sandipan Mukherjee, Sc-D, CLWRM, GBPNIHE
- Co-Convener: Shri. Ranjan Joshi Sc-E, Dr. KC Sekar Sc-E, Dr. Vasudha Agnihotri Sc-D, ordinator, GBPNIHE (HQ).

Contact- +91-8859149537

Expected outcome

A working paper / status document focusing on carbon and water budgets of Himalaya and expected changes in the biosphere regime under shock.

Er. Ashutosh Tiwari Sc-C, Er. Vaibhav Gosavi Sc-C & Ms. Priyanka Lohani Project Co-