

Full Name

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[IRINS](#)

31
Journal PUBLICATIONS
3
Sponsored PROJECTS
35
Book and Book Chapters
DOCTORAL STUDENTS
Awarded: 02
Ongoing: 03

Brief Profile

Dr. Anurag Linda is an Associate Professor in the Department of Environmental Sciences, Central University of Jharkhand, Ranchi. He has an experience of more than twenty years working in the field of Environmental Science, having specialization pertaining to Glacier Response of the Indian Himalaya due to Climate Change. The author has also served the Department of Environmental Sciences, Central University of Himachal Pradesh, Dharamshala as an assistant professor for a decade. Dr. Linda is a trained Environmentalist; he holds a PhD and Masters Degree in Environmental Science from the School of Environmental Science, Jawaharlal Nehru University, New Delhi.

Present Position/Address

2022 – Present:	Associate Professor Department of Environmental Sciences School of Natural Resource Management Central University of Jharkhand, Ranchi, JHARKHAND INDIA
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Past Experiences

2012 – 2022	Assistant Professor, Department of Environmental Sciences, Central University of Himachal Pradesh, Dharamshala, Himachal Pradesh.
2009 – 2012	PI, DST Young Scientist project “Glacier Dynamics of Chhota Shigri Glacier, Lahaul and Spiti valley, Himachal Pradesh, INDIA” (sponsored by Department of Science and Technology, Government of India, New Delhi) at JNU New Delhi.
2008 – 2009	Senior Research Fellow in an INDO-FRENCH project “Glacier Mass, Energy and Hydrological Balance of Chhota Shigri Glacier, INDIA” at JNU New Delhi.

Education Qualification

2009	Ph.D (Environmental Sciences: Glaciology) from School of Environmental Sciences, JNU, New Delhi
	Thesis Title: Snow and Ice Mass Budget of Chhota Shigri Glacier, Lahaul and Spiti Valley, Himachal Pradesh
	Supervisor:- Prof AL. Ramanathan
2003	M.Phil (Environmental Sciences: Glaciology) from School of Environmental Sciences, JNU, New Delhi
	Dissertation Title: Mass Balance of Chhota Shigri Glacier Lahaul and Spiti Valley, Himachal Pradesh
	Supervisor - Prof S.I. Hasnain
2001	M.Sc (Environmental Sciences) School of Environmental Sciences, JNU, New Delhi
1999	B.Sc (Geology Hons) St. Xavier’s’ College, Ranchi, Jharkhand

Additional Qualifications/Awards

▪ UGC-NET (Environmental Sciences) June 01’.
▪ CSIR - JRF/NET (Earth, Atmospheric, Planetary and Ocean Sciences) December 02’.
▪ DST – Fast track Young Scientist Award, 2009.

Research and Teaching Experience

RESEARCH FIELD :	Environmental Sciences (Specialisation in Cryospheric Science: <i>Mass Balance, Hydrology, Remote Sensing</i>)
POST PhD EXPERIENCE	15 Years

TEACHING EXPERIENCE	12 Years	
SUPERVISING	PhD: 03	MSc: 04
SUPERVISED	PhD: 02	MSc: 43

Research Projects and Consultancy

1.	Title: Revival of Springs: A Sustainable Approach for Future Water Security in the Salol Region of Kangra District, H.P. . Funding agency- HIMCOSTE, Shimla 7.5 Lakhs (PI of the Project, Completed)
2.	Title: Glacier Dynamics and Associated Processes in Shishram Glacier , East Lidder V alley , Kashmir Himalaya. Funding agency- DST, Gol, New Delhi, 39 Lakh (PI of the Project, Completed)
3.	Title: Glacier Dynamics of Chhota Shigri Glacier , Lahaul and Spiti valley , Himachal Pradesh, INDIA, Funding agency- DST, Gol, New Delhi, 29 Lakh (PI of the Project, Completed)

Courses Taught

1.	Post Graduate: MSc, MA, MBA
2.	Under Graduate: B.Sc., B. Tech, BSE, BIS, BCA, BBA

Additional roles/ responsibility

1.	BOS Member (Department of Environmental Sciences, Department of Geo-Informatics)
2.	Associate DSW
3.	Departmental Research Committee Member

Publications

List of Selected Papers :

1.	Rawal, S., Singh, D., & Linda, A. (2024). Ensuring water security by reviving selected springs in Kangra region, Himachal Himalaya, India. <i>Water Science</i> , 38(1), 239-255.
2.	Singh, H. P., & Linda, A. (2021). High Altitude Lake and Hydrochemistry: A Study of Lam Dal and Six Consecutive Lakes of Dhauladhar, Himachal Himalaya, India. <i>Journal of Climate Change</i> , 7(4), 53-70.
3.	Riju Parmar, Shikha Rawal, Harminder Pal Singh ¹ and Anurag Linda*. 2021. "HYSPLIT trajectory model and its application with Special reference to the Third Pole". <i>Journal of Environmental Science & Engineering</i> , vol. 2, p. 1203-1213
4.	Meenakshi Hira, Sudesh Yadav, Morthekaic, Anurag Linda, Sushil Kumar, Anupam Sharma: Mobile Phones—An asset or a liability: A study based on characterization and assessment of metals in waste mobile phone components using leaching tests, <i>Journal of Hazardous Materials</i> 342 (2018) 29–40, 2017. (IF-10.5). Date of publication: 08 August 2017.
5.	Mohd. Farooq Azam · Al. Ramanathan · Patrick Wagnon · Christian Vincent · Anurag Linda · E. Berthier · Parmanand Sharma · Arindan Mandal · Thupstan Angchuk · Virendra Bahadur Singh · Jose George Pottakkal: Meteorological conditions, seasonal and annual mass balances of Chhota Shigri Glacier, western Himalaya, India, <i>Annals of Glaciology</i> , 57(71):328-338, 2016. (IF- 2.349). Date of publication: 03 March 2016.
6.	JG Pottakkal, A Ramanathan, VB Singh, P Sharma, MF Azam, A Linda: Characterization of subglacial pathways draining two tributary meltwater streams through the lower ablation zone of Gangotri glacier system, Garhwal Himalaya, India, <i>Current Science</i> 107 (4), 613 – 621 , 2014. (IF- 0.843). Date of publication: 25 August 2014.
7.	Azam Mohd Farooq, Patrick Wagnon, Christian Vincent, Alagappan Ramanathan, Anurag Linda and Virendra Bahadur Singh: Reconstruction of the annual mass balance of Chhota Shigri glacier, Western Himalaya, India,

since 1969, *Annals of Glaciology*, 55(66): 69 – 80 , 2014. (IF- 2.349). Date of publication: 29 April 2014.

8. Virendra Bahadur Singh, AL Ramanathan, Jose George Pottakkal, Anurag Linda, Parmanand Sharma: Temporal Variation in the Major Ion Chemistry of Chhota Shigri Glacier Meltwater, Lahaul–Spiti Valley, Himachal Pradesh, India, *National Academy Science Letters*, 36(3): 335 – 342, 2013. (IF- 0.369). Date of publication: May–June 2013.
9. C. Vincent, A. Ramanathan, P. Wagnon, D. P. Dobhal, A. Linda, E. Berthier, P. Sharma, Y. Arnaud, M. F. Azam, P. G. Jose, and J. Gardelle.: Balanced conditions or slight mass gain of glaciers in the Lahaul and Spiti region (northern India, Himalaya) during the nineties preceded recent mass loss, *The Cryosphere*, 7, 569 – 582. 2013. (IF- 4.803). Date of publication: 03 Apr 2013.
10. Dutta Shruti, Ramanathan, Al. and Linda Anurag: Glacier Fluctuation Using Satellite Data In Beas Basin, 1972-2006, Himachal Pradesh, India, *Journal of Earth System Sciences*, 121(5):1105 - 1112, 2012. (IF- 0.955). Date of publication: October 2012.
11. Virendra Bahadur Singh, AL. Ramanathan, Jose George Pottakkal, Parmanand Sharma, Anurag Linda and Mohd. Farooq Azam,: Chemical characterisation of meltwater draining from Gangotri Glacier, Garhwal Himalaya, India, *Journal of Earth System Sciences*, 121(03): 625–636, 2012. ((IF- 0.955)). Date of publication: June 2012.
12. Mohammed Farooq Azam, Patrick Wagnon, Alagappan Ramanathan, Christian Vincent, Parmanand Sharma, Yves Arnaud, Anurag Linda, José George Pottakkal, Pierre Chevallier, Virendra Bahadur Singh, Etienne Berthier: From balance to imbalance: a shift in the dynamic behaviour of Chhota Shigri Glacier (Western Himalaya, India), *Journal of Glaciology*, 58(208): 315 – 324, 2012. (IF- 3.643). Date of publication: 02 May 2012.
13. Jayalakshmi Devi Oinam, AL. Ramanathan, Anurag Linda, Gurmeet Singh : A study of arsenic, iron and other dissolved ion variations in the groundwater of Bishnupur District, Manipur, India. *Environmental Earth Science*, 62(06):1183-1195, 2011. (IF- 1.569). Date of publication: 5 March 2011.
14. Patrick Wagnon, Anurag Linda, Yves Arnaud, Rajesh Kumar, Parmanand Sharma, Christian Vincent, Jose George Pottakkal, Etienne Berthier, Alagappan Ramanathan, Syed Iqbal Hasnain, Pierre Chevallier,: Four Years Of Mass Balance On Chhota Shigri Glacier, Himachal Pradesh, India, *A New Benchmark Glacier In The Western Himalaya. Journal*

Technical Documents, Books and Book Chapters

Technical Documents

1. Kumar, R., Hasnain, S., Wagnon, P., Arnaud, Y., Chevallier, P., Linda, A., & Sharma, P. (2007). Climate change signal detected through mass balance measurement on benchmark glacier, Himanchal Pradesh, India. *Climate and Anthropogenic Impacts on the Variability of Water Resources*. Paris: Hydro Sciences Montpellier, Technical Document in Hydrology, 80, 65-74.
2. *Snow and Glaciers of the Himalayas*, 2011, Space Application Center (ISRO), Ahmedabad, India, ISBN: 978-81-909978-7-4.
3. Technical Progress Report on Young Scientist Project "Glacier Dynamics of Chhota Shigri Glacier Lahaul and Spiti Valley Himachal Pradesh" submitted to Science and Engineering Research Council, Department Of Science and Technology, New Delhi, for November 2009-October 2011, Reference No. SR/FTP/ES-61/2009.

Book Chapters

1. Shikha Rawal and Anurag Linda*, "Open Dumping, a Challenge for Himalayan States: A Review"; *Proceedings of Book International Conference on Extreme Weather Events under Changing Climate*, ISBN: 978-93-90758-33-3.
2. Riju, Linda, A., & Singh, H. P. (2021). Geological carbon capture and storage as a climate-change mitigation technology. *Advances in Carbon Capture and Utilization*, 33-55.
3. Dutta, S., Ramanathan, A. L., Linda, A., Pottakkal, J. G., Singh, V. B., & Angchuk, T. (2015). Glacier mass balance and its significance on the water resource management in the Western Himalayas. *Management of water, energy and bio-resources in the era of climate change: emerging issues and challenges*, 73-83.
4. Singh, V. B., Ramanathan, A. L., Jose, P. G., Sharma, P., Linda, A., & Azam, M. F. (2013). Decadal variation in the major ion chemistry of Chhota Shigri glacier meltwater, Lahaul-Spiti valley, Himachal Pradesh, India. *Climate Change and Environment*, 159.
5. Dutta, S., Ramanathan, A., & Linda, A. (2010, May). Estimating Glacier Retreat through Satellite Based

- Observation In the Beas Basin, Himachal Pradesh, India. In EGU General Assembly Conference Abstracts (p. 6013).
6. Sharma, P., Ramanathan, A., Linda, A., Wagnon, P., Arnod, Y., Jose, P. G., & Chevallier, P. (2009, April). Impact of monsoonal rainfall on specific mass balance in ablation zone of Chhota Shigri Glacier in 2008, Himachal Pradesh, India. In EGU General Assembly Conference Abstracts (p. 4690).
 7. Shikha Rawal and Anurag Linda*, "Open Dumping, a Challenge for Himalayan States: A Review"; Proceedings of Book International Conference on Extreme Weather Events under Changing Climate, ISBN: 978-93-90758-33-3.
 8. Singh, V. B., Ramanathan, A. L., Pottakkal, J. G., Sharma, P., Linda, A., Chatterjee, C., ... & Mandal, A. (2013). Hydrochemistry of meltwater emerging from Raktvarn glacier, Central Himalaya, India. Climate change and Himalayan ecosystem-indicator, bio and water resources, 109-118.
 9. Dutta, S., Ramanathan, A. L., & Linda, A. (2013). Estimating glacier changes in the Ravi Basin (1972–2006) through remote sensing techniques (p. 262). 262p.
 10. Ramanathan, A. L., Singh, V. B., Jose, P. G., Sharma, P., Linda, A., & Kumar, M. (2009). Hydrogeochemistry of Chhota Shigri Glacier, Lahaul-Spiti Valley, Himachal Pradesh. In Proceedings of National Symposium on Climate Change and Water Resources in India. National Institute of Hydrology, Roorkee (pp. 48-49).
 11. Angchuk, T., AL, R., Mandal, A., Soheb, M., Bahuguna, I. M., Singh, V., & Linda, A. (2016, December). In-Situ Mass Balance Measurements and Morphology Study of Patsio Glacier, Himachal Pradesh, Western Himalaya. In AGU Fall Meeting Abstracts (Vol. 2016, pp. C11C-0797).
 12. Mandal, A., Ramanathan, A., Farooq Azam, M., Wagnon, P., Vincent, C., Linda, A., ... & Soheb, M. (2015, April). Annual and seasonal mass balances of Chhota Shigri Glacier (benchmark glacier, Western Himalaya), India. In EGU General Assembly Conference Abstracts (p. 14078).

Papers in Conference Proceedings

1. Anurag Linda, 2022: Hydrochemistry of High Altitude Lakes: A Comparative Study in the Indian Himalayan Region International Conference on Multidisciplinary Approaches in Engineering Management & Science,(4 March 2022).
2. International Conference on Multidisciplinary Approaches in Engineering, Management & Science (EMS-2022): Hydrochemistry of High and Low Altitude Lakes: A Comparative Study in the Himalayan Region, A R Research Publication **2022**, ISBN: 978-93-91535-23-0.
3. Anurag Linda, 2014: Role of Glaciers in the River Water Resource Management in the Western Himalaya, National Conference on Implications of Climate Change on Himalayan Environment ICHE – 14, School of Earth and Environmental Sciences, CUHP, Dharamshala, 20 – 21 March 2014, INDIA.
4. Anurag Linda, Al Ramanathan, Parmanand Sharma, Thupstan Angchuk, Virendra Bahadur Singh, Jose George Potakkal, Arindan Mandal, Naveen Kumar, Mohd Farooq Azam, Patrick Wagnon and Christian Vincent: Seasonal mass-balance determination in the Indian Himalaya: Chhota Shigri Glacier, Himachal Pradesh, 2009-2012, Abstract (66A162) accepted in International Glaciological Meeting, Beijing, China (28 July–2 August 2013).
5. Tenzin Dolker, Rita Devi, Munisha Sharma, Anurag Linda, 2013: A Review of Traditional Water Harvesting Techniques in Himachal Pradesh, "Regional Workshop on Managed Aquifer Recharge in Hills & Valleys of Himachal Pradesh" March 6, Central Ground Water Board/NHR/IEC/ Dharamshala, INDIA.
6. Ranjana Kumari, Munisha Sharma, Savita Verma, Anurag Linda, 2013: An overview of traditional water harvesting techniques in India, "Regional Workshop on Managed Aquifer Recharge in Hills & Valleys of Himachal Pradesh" March 6, Central Ground Water Board/NHR/IEC/ Dharamshala, INDIA.
7. AL Ramanathan , Anurag Linda, Pottakkal George Jose ,Parmanand Sharma ,Mohd. Farooq Azam, Virendra Singh and Patrick Wagnon 2012: Winter accumulation and annual mass balance status of glaciers in Lahaul-Spiti, Himachal Pradesh, India, Trans-Himalayan Workshop on Glaciers, Snow Melt and Runoff in the Himalayas, ICIMOD, Kathmandu,, February 6-7, 2012, NEPAL.
8. Anurag Linda, Al. Ramanathan, Shruti, Jose pottakkal, Parmanand Sharma & Virendra Bahadur 2012: Glacio-Morphological Studies Through Field Observations: A Case Study Of Chhota Shigri Glacier, Himachal Pradesh, India, International symposium on Cryosphere and climate change (ISCCC – 2012), 02 – 04 April 2012, SASE, Manali, INDIA.
9. Anurag Linda, Al. Ramanathan, Parmanand Sharma and P.G.Jose, 2010: The Danger of Retreating Himalayan Glaciers and GLOF, National level workshop on geomatic based natural resources disaster mitigation and

managements(GEO DIMMS) held from 22-26 February at Tamil University, Thanjavur, INDIA.

10. Parmanand Sharma, AL. Ramanathan, Sudarshana Sharma, Anurag Linda and P.G Jose, 2010: Impact of landslide and Landslide Lake Outbursts Flood (LLOF) in the Himalayan region, National level workshop on geomatic based natural resources disaster mitigation and managements(GEO DIMMS) held from 22-26 February at Tamil University, Thanjavur, INDIA.
11. Virendra Bahadur Singh, AL. Ramanathan, P.G.Jose, Parmanand Sharma, Anurag Linda 2010: Climate Change Impact on Chhota Shigri Glacier, Lahaul-Spiti Valley, Himachal Pradesh, India, (ISBN: 978-93-80697-25-3). International Conference on Emerging Technologies for Sustainable Environment held from 29-30 October 2010 at Department of Civil Engineering, Z.H College of Engineering & Technology, A.M.U, Aligarh, INDIA, and Pg.201-206.
12. Shruti Dutta, Al Ramanathan, Anurag Linda: Estimating Glacier Retreat through Satellite Based Observation In the Beas Basin, Himachal Pradesh, India, EGU General Assembly Conference Abstracts, 12, 6013, 2010.
13. AL. Ramanathan, Parmanand Sharma, Anurag Linda, and Jose George Pottakkal, 2009: Impact of Climate Change on The Meltwater Discharge of The Chhota Shigri Glacier, Himachal Pradesh, India. Proceedings Paper, Symposia on Impact of climate change held from 27-28 May, 2009 at National Hydraulic Research Institute of Malaysia (NAHRIM), MALASIA.
14. Anurag Linda, Al. Ramanathan 2009: Negative Glacier Mass Balance – A threat for future water supply: A case study of Chhota Shigri Glacier, Lahaul and Spiti Valley, Himachal Pradesh, National Seminar on Recent Trends in Water Research (RETWAR – 2009) 2 – 3 March, 2009. Department of Earth Science, Annamalai University, Annamalai Nagar, INDIA.
15. Anurag Linda, Al. Ramanathan, Parmanand Sharma, G Senthil Kumar, Shruti and P G Jose, 2008: Mass balance studies using field data in Chhota Shigri Glacier, HP, India. In Proceedings (Annexure) International workshop on Snow, Ice, Glacier and Avalanches. 07-09 January 2008 -Mumbai, India. Organized by Centre of Studies in Resource Engineering, IIT- Bombay, INDIA.
16. Parmanand Sharma, Al. Ramanathan, Anurag Linda, Jose George Pottakal, Shruti ,Patrick Wagnon, Eves Arnaud and Pierre Chevallier, 2008: Preliminary Studies on the Mass Balance of Chhota Shigri glacier, Himachal Pradesh, India. Proceedings Paper, Workshop on mass balance measurements and modeling held from 25–28 March 2008 at Skeikampen, Norway and online by International Glaciological Society (at annals@igsoc.org), NORWAY.
17. *Al. Ramanathan, Parmanatah Sharma, Anurag Linda, Shruthi, Jose P.G, 2008: Preliminary studies on the Mass Balance of Chhota Shigri Glacier India*, Workshop on mass balance measurements and modeling, **IGS Symposia, Skeikampen, NORWAY (26-28 March 2008).**

Workshops and Trainings

1. Refresher Course in Environment and Sustainable Development, **HRDC, University of Rajasthan, Jaipur**, 11th – 23rd Januray 2021.
2. Faculty development program (Online-FDP) on the topic “Advanced Research Methodology Tools and Techniques” **Ramanujan College, Delhi University** 30th January – 14th February 2021.
3. Specialised Course (SC) in higher education – Equity Privatisation and Internationisation organised by the Department of Higher and Professional Education, National University of Education Planning and Administration, from 12 – 23 December 2016 a t UGC-Human Resource Development Centre, **Savitribhai Phule Pune University, Pune**.
4. Four **Week Refresher Course** in Environmental Studies (ID), HRDC, **J.N.U, New Delhi**, 28 April – 14 May 2016.
5. **82nd Orientation Programme**, UGC-HRDC, **Ranchi University, Ranchi**, 12 March – 08 April 2015.
6. 5 Days Training on ERDAS and GeoMedia – Remote Sensing and GIS software conducted by Science, Dehradun in collaboration with Itergraph at Department of Environmental Sciences, School of Earth and Environmental Sciences, **Central University of Himachal Pradesh, Dharamshala**, Himachal Pradesh, 24 – 28 February 2014.
7. National conference in mangrove wetlands and near shore marine ecosystem – from sustainability issues to management and restoration, School of Environmental Sciences, **J.N.U New Delhi**, 5 – 6 March 2012.
8. Modern and Palaeo Sediments: Implication to Climate, Water Resources and Environmental Changes & XXVIII Convention of Indian Association of Sedimentologists, School of Environmental Sciences, **J.N.U New Delhi**, November 24th – 26th November 2011.

9. International workshop on "Water resources impact on Agriculture , Health and Environment", School of Environmental Sciences, **Jawaharlal Nehru University ,New Delhi**, January 11th - 12th 2011.
10. 3 days training course on "Hydrological Data Entry & Processing using SWDES", Western Himalayan Regional Centre, **National Institute of Hydrology, Jammu**, March 22nd – 24th , 2011.
11. "3 Day Familiarization Workshop on Scientific Ballooning" sponsored by DST, December 13-15, 2010 at **National Balloon Facility, Hyderabad**, 13th – 15th December 2010.
12. Training programme on Applications of Hydrochemical Modelling in Water Research, Department of Earth Sciences, **Annamalai University, Annamalai Nagar** , March 1st – 5th 2010.
13. National Conference on Scientific Strategies for protection and Preservation of Wetlands in India sponsored by DST, Govt. of India, and organized by School of Environmental Sciences, **J.N.U New Delhi**. 11th to 12th January, 2010.
14. Snow Characterisation Work Shop (SCW) **SASE, Manali**, April 13th – 15th , 2009.
15. International training course on Glacier Mass Balance Measurements Yala Glacier, Langtang Valley, NEPAL, Sponsored by-ICSI/**UNESCO-IHP** /HKH- FRIEND/DST, Govt. of INDIA September 27 April - 15 May 2009.
16. International conference on Coastal Environment-Vulnerability and assessment, Indo-Australian Meet on Coastal and related aspects at SES, **JNU, New Delhi** , sponsored by UGC, JNU, UNESCO, DST, MoEF, Govt of India, February 12th to 15th , 2007.
17. Second International Conference on Ground Water for Sustainable development problems, Perspective and Challenges, **J.N.U. New Delhi**, INDIA. Sponsored by- UNESCO, UNICEF and DST, February 1st – 4th, 2006.
18. Certificate short term training course on Mathematical Models in Hydrochemistry: Assessment of ground water Quality and Management, **J.N.U. New Delhi**, INDIA, Sponsored by Department of Science & Technology. October 19th September- 5th October 2005.
19. Short term training course on Mathematical Modelling of ground water flow and mass transport through theory and hand on training, School of Environmental Sciences, **J.N.U New Delhi**, 12th November – 9th December 2004.
20. International training course on Glacier Mass Balance Measurements New Delhi & Chhota Shigri Glacier (Himachal Pradesh), INDIA, Sponsored by-ICSI/**UNESCO-IHP**/HKH FRIEND/DST, Govt. of India. 25th September – 11 October 2002.

Invited Talks

1. Title: **Climate Change and Glacial Hazards in the Indian Himalaya**
Organising Institute: The CCDRR Centre, NIDM in association with Mahatma Gandhi State Institute of Public Administration (MGSIPA), Chandigarh and Child Rights & You (CRY) **27 April 2023**.
2. Title: **Spring Rejuvenation in Himalaya**
Organising Institute: CGWB, Dharamshala. Tier II Training Course on "Local Ground Water Management issues and Ground Water Resource Estimation -2020 of H.P. **23 December 2021**.
3. Title: Sustainable **Water Management in Hilly Areas Water Management in Hilly Areas for Sustainable Development**
Organising Institute: Jointly organized by Department of Civil Engineering, Indian Institute of Technology Indore, Indian Institute of Technology Jammu, and National Institute of Technology Hamirpur, **17 December 2021**
4. Title: **Spring Rejuvenation National Conference on Recent Trends in Environmental Pollution and Disaster Risk Reduction.**
Organising Institute: IIT Dhanbad, **7 February 2020**
5. Title: **Cryosphere and its Role in Water Resource Management in Hilly Region**, Tier-II Training Program
Organising Institute: Central Ground Water Board, NHR, Dharamshala, **29 August 2019**
6. Title: **Status of Glaciers in Indian Himalaya National Conference on Biogeochemical Cycles and Climate Change.**
Organising Insitute: IIT Dhanbad, **11 August 2018**
7. Title: **Status of Indian Himalayan Glacier**
Organising Insitute: UGC- HRDC Ranchi, Ranchi University **18 June 2018**
8. Title: **Glacial Hydrology and Glacial Hazards**
Organising Insitute: UGC- HRDC Ranchi, Ranchi University **18 June 2018**

9. Title: **Sustainable Water Management**
Organising Institute: UGC- HRDC Ranchi, Ranchi University **18 June 2018**
10. Title: "**Disaster Management- Geographical structure of Hills in HP, Sensitivity, Role of media in mitigating effects of crisis and natural disaster**" Event: Media workshop "Vartalaap" for improved information dissemination in rural areas on 20-09-2017 at Hamirpur, H.P., **20 September 2017**.
Organising Institute: Press Information Bureau (PIB) Shimla, Ministry of Information and Broadcasting, Gol
11. Title: **The role of media in Natural Hazard Management**
Event: Media workshop "Vartalaap" for improved information dissemination in rural areas at Mandi, H.P., **12 May 2017**.
Organising Institute: Press Information Bureau (PIB) Shimla, Ministry of Information and Broadcasting, Gol
12. Title: **The role of media in Natural Hazard Management**
Event: Media workshop "Vartalaap" for improved information dissemination in rural areas at Una, H.P., **10 August 2016**.
Organising Institute: Press Information Bureau (PIB) Shimla, Ministry of Information and Broadcasting, Gol
13. Title: **Glacier Mass Balance Studies using stable isotopes**.
Organising Institute: Workshop cum Lecture series on "Recent Advancement of Stable Isotopes Applications in Hydrology/hydrogeology, Environment and Earth process by LWIA Picarro" at Jawaharlal Nehru University, New Delhi., **13 – 14 June 2016**.
14. Title: **Glacial Hazards**
Event: Media workshop "Vartalaap" for improved information dissemination in rural areas at Kullu, H.P. **23 February 2016**.
Organising Institute: Press Information Bureau (PIB) Shimla, Ministry of Information and Broadcasting, Gol
15. Title: **Recent status of Glacier Mass Balance in the Western Himalaya**
Organising Institute: Two day National Workshop on "Recent Trends in Environmental Sciences and Carbon Management" RTCM – 2015 held by Department of Environmental Sciences , CUHP, TAB, Shahpur, Kangra, H.P. **19 – 20 November 2015**.
16. Title: "**Glacier Mass Balance Methods**" with Hand's on training in Chhota Shigri glacier, Lahaul & Spiti Valley, H.P.
Organising Institute: Indo-Swiss Capacity Building in Himalayan Glaciology Program organised by School of Environmental Sciences, Jawaharlal Nehru University, New Delhi. **21 – 28 September 2013**.
17. Title: **Glacier Surface Movements and Velocity**
Organising Institute: Indo-Swiss Capacity Building in Himalayan Glaciology Program organised by School of Environmental Sciences, Jawaharlal Nehru University, New Delhi. **17 – 18 October 2013**

Any Other Information

Membership of Professional Bodies/Societies etc.

1. Life member of APEC

