

Professional Profile of Professor Prakash C. Tiwari

Dr. Prakash C. Tiwari is Professor of Geography at Kumaun University, Nainital, Uttarakhand, India. He also worked as Assistant Director [Micro Regional Planning] at National Institute of Rural Development and Panchayati Raj [NIRDPR], Government of India, Hyderabad. Professor Tiwari is a Mountain Sustainable Development and Climate Change Adaptation Specialist; and has worked with various national and international organizations in India and abroad in these fields. Professor Tiwari has implemented a number of multi-institutional collaborative research projects sponsored by international organizations including Australian Agency for International Development [AUSAID]; Ministry of Education, Japan; Federal Ministry of Education and Research, Germany; The Norwegian Agency for Development Cooperation [NORAD]; International Water Management Institute [IWMI]; Asia Pacific Network for Global Change Research [APN], Japan; British Council under the UK India Education and Research Initiative [UKIERI]; Finland Research Council; International Centre for Integrated Mountain Development [ICIMOD]; and apex national agencies including Department of Science and Technology [DST], Indian Space Research Organization [ISRO], Ministry of Environment, Forest and Climate Change [MOEFCC], Government of India; University Grants Commission [UGC] and Indian Council of Social Science Research [ICSSR], New Delhi.

Professor Tiwari has been involved as 'Knowledge Partner' in the 'Indian Himalaya Climate Change Adaptation Programme' [IHCAP] of the Swiss Agency for Development and Cooperation [SDC] and 'Himalayan Adaptation, Water and Resilience' [HI-AWARE] Project of International Centre for Integrated Mountain Development [ICIMOD] and Canada International Development Research Centre [IDRC]. He also worked as 'Climate Change Expert' in Indo-US Project jointly implemented by Urban Climate Change Research Network [UCCRN] and International City Management Association [ICMA] under the International City Link Programme, supported by United States Agency for International Development [USAID], and Consultant to the International Water Security Network [ISWN] Project. Professor Tiwari is a Professional Mentor to the International Academic Programme for 'Creating a Flexible, Enduring and Peaceful Global Society' [TAOYAKA] of Hiroshima University, Japan. He is one of the Lead Authors of Hindu Kush Himalaya Monitoring and Assessment Programme [HIMAP] of the International Centre for Integrated Mountain Development [ICIMOD], Kathmandu, Nepal. Professor Tiwari is also Coordinator of Himalayan University Consortium [HUC] at Kumaun University, Nainital. Currently, Professor Tiwari is collaborating with some of the top-ranking universities of North America and Europe as Lead Indian Partner in multi-institutional international projects on 'Sustainable Urban Development in Hindu Kush Himalaya' funded by National Aeronautics and Space Administration [NASA], USA; Sustainable Natural Resource Use in the Arctic and High Mountains [SUNRAISE] supported by the European Union [EU] under its Horizon 2020 Programme on Capacity Building in Higher Education [CBHE]; and joint Field-based 'Educational and Research Programme' on Water Conservation sponsored by the Norwegian Centre for International Cooperation in Education [SIU]. Besides, Professor Tiwari is also involved in the 'Spring revival with Sustainable Land Management [SLM] Practices in the Mid-Hills of North-western Himalaya being implemented under the 'World Overview of Conservation Approaches and Technologies' [WOCAT] by the Centre for Development and Environment [CDE], Bern, Switzerland; and in East Africa-Peru-India Climate Capacities [EPICC] Project of the Potsdam Institute for Climate Change Impact Research [PIK], Germany.

Professor Tiwari was awarded 'Invitation Fellowship' of Japan Society for Promotion of Science [JSPS], and worked as 'JSPS Fellow' at Hiroshima University, Hiroshima, Japan during 2012-2013. Professor Tiwari won the highest international fellowship - 'Mercator Fellowship' - of German Research Foundation [DFG], and worked as 'Mercator Professor' at Martin Luther University, Halle, Germany during 2007-2008. He was also awarded 'Guest Professor Fellowship' of German Academic Exchange Service [DAAD], and worked as 'DAAD Guest Professor' at the University of Leipzig, Leipzig, Germany in 2002. Professor Tiwari has been two-time 'Shastri Fellow' of Shastri Indo-Canadian Institute [SICI], Canada; and worked at University of Toronto, Toronto, Canada in 2005, and at Simon Fraser University, Vancouver, Canada in 1997. Professor Tiwari was appointed as 'Visiting Professor' at Newcastle University, Newcastle, UK; the University of the West of England, Bristol, UK; McMaster University, Hamilton, Canada; Tohoku University, Sendai, Japan; Swedish University of Agricultural Sciences, Umea, Sweden; University of Salzburg, Salzburg, Austria; and University of Turku, Turku, Finland; and 'Visiting Scientist' at University of Potsdam, Potsdam, Germany from time to time. He is member of the Scientific Advisory Board of European Land-use Institute [ELI], Bonn, Germany; and member of the Scientific Steering Committee [SSC] of the Commission on 'Cold and High Altitude Regions' [CHAR] of the International Geographical Union [IGU]. Professor Tiwari is involved with Global Mountain Commission [GMC], Switzerland; Mountain Research Initiative [MRI], Switzerland; Mountain Forum [MF]; Mountain Partnership [MP]; and Monsoon Asia Integrated Regional Study [MAIRS], at the Chinese Academy of Sciences [CAS], Beijing, China. He has been 'Fellow' of Urbanization and Global Environmental Change [UGEC] and Earth System Governance [ESG] Project of International Human Dimension Programme [IHDP]. Currently, Professor Tiwari is acting as the Chief Editor of International Journal of Geography and Regional Planning; and Member of the Editorial Boards of 'International Soil and Water Conservation Research' [ISWCR] of the World Association of Soil and Water Conservation [WASWC]; International Journal of 'Change and Adaptation in Socio-Ecological Systems' [CASES], and International Journal of 'Global Innovations in Agricultural and Social Sciences'.

FACULTY PROFILE

- 1. Name:** Dr. Prakash C. Tiwari
- 2. Designation:** Professor of Geography
Head Department of Geography, DSB Campus, Kumaun University, Nainital
Coordinator Himalayan University Consortium (HUC)
Kumaun University, Nainital
Nodal Officer, Disaster Management, Kumaun University, Nainital
- 3. Academic Qualification:** M.A., Ph.D.
- 4. Areas of Specialization:** Climate Change Impact, Adaptation and Mainstreaming
Natural Resource and Environmental Management
Food and Livelihood Security
Gender Mainstreaming
Disaster Risk Reduction
Institutions and Governance
Remote Sensing [RS], Geographic Information System [GIS] and Global Positioning System [GPS] Applications
- 5. Awards/Recognition:**
- (i) International Fellowships and Awards:**
- **Professional Mentor:** Global Graduate Educational Program for Creating Flexible, Enduring and Peaceful Society-Hiroshima University, Hiroshima, Japan (July 2017-Till Date)
 - **Guest Professor:** Leibniz Institute of Ecological Urban and Regional Development (IOER), Dresden, Germany (September and October 2017)
 - **Visiting Professor:** Graduate School of Letters, Hiroshima University, Hiroshima, Japan (February 2017 and June 2017)
 - **Visiting Scientist:** School of Civil Engineering and Geo-sciences, University of Newcastle, UK (January, June and July 2016)
 - **Visiting Professor:** Department of Geography and Environmental Management, University of the West of England (UWE), Bristol, UK (2016)
 - **Visiting Scientist:** School of Civil Engineering and Geo-sciences, University of Newcastle, UK (November-December 2015)
 - **Visiting Fellow:** Sustainable Development Policy Institute (SDPI), Islamabad, Pakistan.
 - **Invitation Fellowship:** Japan Society for Promotion of Science (JSPS), and worked as **JSPS Fellow** at Hiroshima University, Hiroshima, Japan (2012-2013)
 - **Visiting Scientist:** Institute of Geo-ecology, University of Potsdam, Potsdam, Germany (2012)
 - **Visiting Professor:** Swedish University of Agricultural Sciences, Umea, Sweden (2009)
 - **Mercator Fellowship:** German Research Foundation (DFG), and worked as **Mercator Professor** at Martin Luther University, Halle, Germany (2007-2008)
 - **Visiting Professor:** University of Turku, Turku, Finland (2008)
 - **Visiting Professor:** Tohoku University, Sendai, Japan (2007)
 - **Visiting Professor:** McMaster University, Hamilton, Canada (2007)
 - **Visiting Scientist:** McMaster University, Hamilton, Canada (2006)
 - **Shastri Fellow:** Shastri Indo-Canadian Institute, and worked at University of Toronto, Toronto, Canada (2005)
 - **Guest Professor:** German Academic Exchange Service (DAAD), and worked as **DAAD Guest Professor** at University of Leipzig, Leipzig, Germany (2002)
 - **Visiting Professor:** University of Salzburg, Salzburg, Austria (2002)
 - **Shastri Fellow:** Shastri Indo-Canadian Institute, and worked as **Shastri Fellow** at Simon Fraser University, Vancouver, Canada (1997)

(iii) National Fellowships:

- **Visiting Scientist Fellowship** of University Grants Commission [UGC], New Delhi and worked as 'Visiting Scientist' at G.B. Pant Institute of Himalayan Environment & Development, Almora [1995 – 1997]
- **General Fellowship** of Indian Council of Social Science Research [ICSSR], New Delhi [1985]
- **Doctoral Fellowship** of Indian Council of Social Science Research [ICSSR], New Delhi [1982-84]

6. Research Projects:

[i] Completed Research Projects:

International Collaborative Projects				
S. No	Title of Project	Funding Agency	Amount (Rs)	Year (From-To)
1	Lead India Partner: Climate-smart agriculture implementation through community-focused pursuit of land and water productivity in South Asia (in collaboration with Newcastle University, UK)	UK Royal Society	Funding to Newcastle University	2016-2018
2	India Lead Partner: India-UK Collaborative Project: Harnessing climate data and remote sensing products to promote community-led innovation in adaptive natural resource management for improved food security in the changing climate of the Kumaon Lesser Himalaya (KLH)	Department of Science and Technology (DST), Government of India and British Council (BC), UK	1500000	2015-2018
3	Lead Author and Collaborator: Hindu Kush Himalaya Monitoring and Assessment Programme	ICIMOD, Kathmandu, Nepal	Fund Managed by ICIMOD	2015-2017
4	Lead Indian Partner: Development of an Evidence-Based Climate Change Adaptation Toolkit to Help Improve Community Resilience to Climate Change Impacts in Uttarakhand, India (in collaboration with ANU Climate Change Institute and Monash Sustainability Institute (Australia); Tribhuvan University (Nepal); Monsoon Asia Integrated Regional Study (MAIRS) and Institute of Atmospheric Physics, Chinese Academy of Sciences (China); and Centre for Global Change (Bangladesh)	Asia Pacific Network for Global Change Research (APN), Kobe, Japan	Funding to Australian National University (ANU), Canberra, Australia	2014-2017
5	Co Principal Investigator: International Collaborative Project: Irrigation-hydropower Nexus in the Ganges Headwaters under International Research Programme on Water Land and Ecosystem (WLE) in Ganges Focal Region, of CGIAR (in collaboration with Arizona University, USA, International Centre for Integrated Mountain Development (ICIMOD), Nepal)	International Water Management Institute (IWMI)	18000000	2015-2016
6	Climate Adaptation Expert: Climate Adaptation Partnership Program Project Shimla, India, Urban Climate Change Research Network (UCCRN) established by ICMA under City-Links	USAID	Funding to UCCRN	2015-2016
7	Indian Collaborator: International Collaborative Project on 'Improving Resilience and Adaptive Capacity to Climate Change in the Hindu Kush-Himalayan (HKH) Region' (Multi-national Collaborative Project in Partnership with Institutions from Australia, China,	Australian International Aid (AUSAID), Australia	Funding to Australian Partners	2013-2015

	Bangladesh, India, Nepal and ICIMOD, Nepal			
8	Indian Partner: of Indo-German Project for Conservation on 'Natural Lakes in Kumaon Himalaya' (in collaboration with Potsdam University, Potsdam, Germany)	Federal Ministry of Education and Research, Germany	Funding to German Partners	2012-2015
9	Indian Collaborator: Indo-German joint Project on 'Minimizing Diffused Pollution in Nainital Lake, Kumaon Himalaya' (in collaboration with Potsdam University, Potsdam, Germany)	Federal Ministry of Research and Education (BMBF), Germany	Funding to German Partners	2011-2014
10	Indian Coordinator: International Collaborative Project on 'Analysis on Urban Land-Use Changes and their Impacts on Food Security in Asian Developing Countries Using Modified CA Model (in Partnership with Institutions from China, Indonesia and Vietnam)	Asia Pacific Network for Global Change Research (APN), Kobe, Japan	Funding to Chinese Partners	2009-2012
11	Indian Partner: International Collaborative Project on 'Climate Change and Flexibility of Farming System in Kumaon and Nepal Himalaya' (in Partnership with University of Bergen, Norway and Tribhuvan University, Kathmandu, Nepal)	University of Bergen, Bergen, Norway	Funding to Norwegian Partners	2009-2011
12	Indian Partner: Indo-Fin International Collaborative Project on 'Adaptation of Ethnic Communities and Livelihood and Food Security in Nepal and Indian Himalaya' (in Collaboration with University of Turku, Turku, Finland)	Finland Research Council	Funding to Fin Partners	2009-2010
13	Indian Partner: Indo-Japanese Collaborative Research Project on 'Emerging New Development Strategies and Sustainability Problems in the Himalayan Mountain Ecosystem of India' (in Partnership with University of Hiroshima, Tohoku University and University of Kobe, Japan)	Japan Ministry of Education and Research	Funding to Japanese Partners	2008-2010
14	Indian Coordinator: Norwegian Programme for Master Studies in Environment and Biodiversity Management (in Partnership with University of Bergen, Norway, Tribhuvan University, Kathmandu, Nepal and Kunming Institute of Botany, Kunming, China)	The Norwegian Agency for Development Cooperation (NORAD)	Funding to Tribhuvan University, Nepal	2008-2014
15	Coordinator: International Project on 'Land Use Changes in Monsoon Asia Mountain Zone' (in Partnership with China, Nepal and Pakistan)	Monsoon Asia Integrated Regional Study (MAIRS)	Funding to Chinese Partners	2006-2010
16	Coordinator: Vulnerable Mountain Ecosystem and Vulnerable Communities in Monsoon Asia Mountain Zone' (in Partnership with China, Nepal and Pakistan)	Monsoon Asia Integrated Regional Study (MAIRS)	Funding to Chinese Partners	2006-2010

Completed National Projects

1	Principal Investigator: Institutionalizing Common Pool Natural Resources for Restoration of Ecosystem Services & Rural Livelihood Improvement in Upper Ramgad Watershed, District Nainital	University Grants Commission (UGC), New Delhi	1500000	2010-2014
2	Co Principal Investigator: Ecological Modelling for Dabka Watershed in Kumaon Himalaya	DST, Government of India	2500000	2006-2009
3	Co Principal Investigator: Development of Methodology Manual and Community Capacity and Institution Building Program for Rural Biodiversity Conservation in India (in	UNDP – GEF – SGP India Centre for Environment Education	Funding to RANWA, Pune	2005-2008

	Collaboration with Research and Action in Natural Wealth Administration (RANWA), Pune			
4	Principal Investigator/Director: Remote Sensing and GIS based Natural Resources Data Management System (NRDMS) Centre District Nainital	DST, Government of India	2500000	2003-2006
5	Principal Investigator: Natural Resources Information System for Wasteland Development in Kosi Headwater	DST, Government of India	1000000	2002-2003
6	Principal Investigator: Resource Use Pattern and its Impact on Biodiversity in Lake Region, Nainital	ISRO, Government of India	1000000	2001-2006
7	Principal Investigator: Land Use and Land Capability Mapping in Part of Kumaon Lesser Himalaya	Ministry of Environment and Forest, Government of India	500000	1995-1997
8	Principal Investigator: Participatory Rural Resource Appraisal in Khul Gad Catchment, Kumaon Himalaya	Ford Foundation (Through: CHEA, Nainital)	500000	1994-1998
9	Principal Investigator: Resource Management for Sustainable Rural Development in Kosi Catchment	ICSSR, New Delhi	100000	1989-1991
10	Assistant Director: Environmental Planning for Hill Area Development in Himachal Pradesh	National Institute of Rural Development and Panchayati Raj (NIRDPR), Hyderabad	1500000	1988-1990

[ii] Ongoing Research Projects:

International Collaborative Research Projects				
S. No	Title of Project	Funding Agency	Amount (Rs)	Year (From-To)
1	Project Partner: Joint Indo-Norwegian research and education on water-related changes in Himalaya	Norwegian Centre for International Cooperation in Education [SIU], Norway	Funding to Bergen University, Norway	2019-2020
2	Project Partner: Sustainable Resource Use in Arctic and High Mountain Areas in partnership with Institutions in Europe and Russia	European Union [EU], Brussels, Belgium	4100000	2017-2021
3	Project Partner: Pluri-scalar Approaches for Co-production of Pan-Asian Drought Assessment and Adaptive Resource Management in Uttarakhand Himalaya, in Collaboration with Newcastle University, U.K.	U.K. Royal Society [U.K.]	Funding to Newcastle University, U.K.	2018-2020
4	India Collaborator: Urban Growth, Land-Use Change, and Growing Vulnerability in the Greater Himalaya Mountain Range Across India, Nepal, and Bhutan	National Aeronautics and Space Administration [NASA], USA	Funding to Yale University, USA	2017-2020
5	Knowledge Partner: 'International Water Security Network' (ISWN), Project, University of West of England (UWE), UK	Lloyd's Register Foundation	Funding to University of West of England [UWE], UK	2015-2021

7. Number of Ph.D. Awarded: 10

8. Number Candidates Working for Ph.D.: 08

International Research Supervision

Number of Ph.D. Awarded: 01*

*One student from **Technical University of Dresden, Dresden and Dresden Leibniz Institute of Ecological, Urban and Regional Development (Dresden Leibniz Graduate School), Dresden, Germany** on 'Contextualizing Urban Risk Governance in Uttarakhand Himalayas: A Case of Almora, India

9. Publications:

[i] Books:

S. No	Co-Authors	Title	Publisher	Year of Publication
1	Velma Grover, A. Borsdorf, J. Breuste and F. W. Frangetto	Impact of Global Changes on Mountains: Responses and Adaptation	Taylor and Francis, USA	2015
2	Dr. Bhagwati Joshi	Wildlife in Himalayan Foothills of Uttar Pradesh: Conservation and Management	Indus Publishing Company, New Delhi	1997
3	None	Natural Resources and Sustainable Development in Himalaya	Shree Almora Book Depot. Almora	1995
4	Dr. D. C. Pandey	Dimensions of Development Planning	Criterion Publications, New Delhi	1989
5	None	Regional Development and Planning in India	Criterion Publications, New Delhi	1988

[ii] International Course Books:

- **Introduction to Environmental Issues**, School of Geography and Earth Sciences, McMaster University, Hamilton, Canada, 2007
- **Regional Geography of South Asia**, School of Geography and Earth Sciences, McMaster University, Hamilton, Canada, 2007

[iii] Publications Journals/Monographs:

- Tiwari, P. C. and Joshi, B. [2020]: Challenges of Urban Growth in Himalaya with Reference to Climate Change and Disaster Risk Mitigation: A Case of Nainital Town in Kumaon Middle Himalaya, India, in Dimri, A.P., Bookhagen, B., Stoffel, M., Yasunari, T. (Eds.) *Himalayan Weather and Climate and Their Impact on the Environment*, Springer, Pp.473-491
- Heath, Lance C.; Tiwari, P. C.; Sadhukhan, B.; Tiwari, S.; Chapagain, P.; Xu, T.; Li, G.; Ailikum; Joshi, B. and Yan, Z. [2020], Building Climate Change Resilience by Using A Versatile Toolkit for Local Governments and Communities in Rural Himalaya, *Environmental Research*, <https://doi.org/10.1016/j.envres.2020.109636>
- Tiwari, P. C.; Wang, L. and Joshi Bhagwati [2019], Integrated Farming Systems Development for Mountain Agriculture in Asia; in Xuan Li, Mahmoud El Solh and Kadambot H.M Siddique [Eds.]; *Mountain Agriculture: Opportunities for Harnessing Zero Hunger in Asia*; Food and Agriculture Organization of the United Nations, Bangkok
- Rasul, G., Saboor, A., Tiwari, P. C., Hussain, A., Ghosh, N, Chettri, G. B. (2019), Food and Nutrition Security in the Hindu Kush Himlaya: Unique Challenges and Niche Opportunities, in P.

Wester, A. Mishra, A. Mukherji, A. B. Shrestha (eds), *The Hindu Kush Himalaya Assessment: Mountains, Climate Change, Sustainability and People*, Springer Nature Switzerland AG, Cham. pp. 301-338, <https://doi.org/10.1007/978-3-319-92288-1>

- Tiwari, P. C. and Joshi, B. (2019), Trans Boundary Headwater Governance in Hindu Kush Himalaya: A Regional Cooperation Framework for Climate Change Adaptation, Water and Food Security and Peace in South Asia. in Christian Ludwig and Dr. Sonia Valdivia (eds.), *Progress Towards the Resource Revolution*, World Resources Forum, Villigen PSI and St. Gallen, Switzerland
- Everard, M., Gupta, N., Christopher, A.S., Tiwari, P.C., Joshi, B., Kataria, G., Kumar, S. (2018), Assessing Livelihood-Ecosystem Interdependencies and Natural Resource Governance in Indian Villages in the Middle Himalayas; *Regional Environmental Change*, <https://doi.org/10.1007/s10113-018-1391-x>, pp 1–13
- Everard, M., Gupta, N., Chapagain, P. S., Shrestha, B. B., Preston, G. and Tiwari, P. C. (2018), Can Control of Invasive Vegetation Improve Water and Rural Livelihood Security in Nepal?, *Ecosystem Services* 32 (2018) 125–133
- Heath, L., Tiwari, P., Sadhukhan, B., Tiwari, S., Joshi, B., Ailikun, Yan, J. (2018). Using a participatory-based toolkit to build resilience and adaptive capacity to climate change impacts in rural India: A new paradigm shift for rural communities in the Himalaya. *APN Science Bulletin*, 8(1). doi:10.30852/sb.2018.292
- Tiwari, P. C.; Tiwari, A and Joshi, B. (2018), Urban Growth in Himalaya: Understanding the Process and Options for Sustainable Development, *Journal of Urban and Regional Studies on Contemporary India* 4(2): 15–27 (2018); The Center for Contemporary India Studies, Hiroshima University, Hiroshima, Japan (<http://home.hiroshima-u.ac.jp/hindas/index.html>)
- Tiwari, P. C. and Joshi (2018), Gender Processes in Rural Outmigration and Socio-Economic Development in Himalaya, in S. Irudaya Rajan, R. B. Bhagat eds, *Climate Change, Vulnerability and Migration*, Routledge, India, pp.167-192
- Tiwari, P. C. and Joshi (2018), Global Environmental Changes and Himalaya: Challenges and Opportunities, in MSS Rawat et al. (eds), *Environment, Resources and Development of the Indian Himalaya*, Transmedia Publication, Srinagar, Garhwal, Uttarakhand, India, pp. 169-194, ISBN: 978-81-936527-1-8
- Tiwari, P. C. and Joshi, B (2016), Rapid urban growth in mountainous regions: The case of Nainital, India, *Urbanization and Global Environment Change (UGEC) Viewpoints*, March 2016, Global Institute of Sustainability, Arizona State University, Arizona, USA
- Tiwari, P. C. and Joshi, B (2015), Climate Change and Rural Out-migration in Himalaya, *International Journal of 'Change and Adaptation in Socio-Ecological Systems' (CASES)*, 2015; 2: 8–25
- Tiwari, P. C. and Joshi, B (2015), An Integrated Watershed Management and Climate Change Adaptation Framework: A Study from Kumaon in Uttarakhand, India, in Imrana Niazi, Sarah S. Aneel and Uzma T. Haroon (eds.), *Anthology of 17th Sustainable Development Conference: Pathways to Sustainable Development*, Sustainable Development Policy Institute (SDPI), pp 151-169
- Tiwari, P. C. and Joshi, B (2015) Environmental Changes, Rural Out-migration and Social Dynamics in Himalayas, *Studia Obszarow Wiejskich - Rural Studies: Local Development in Urban and Rural Space - Project and Planning*, Polish Academy of Sciences, Volume 38, pp.77-96
- Tiwari, P. C. and Joshi, B (2015) Gender Processes in Rural Out-Migration and Socio-Economic Development in Himalaya, *Migration and Development*, Online Published 14 April 2015, <http://dx.doi.org/10.1080/21632324.2015.1022970>
- Tiwari, P. C. and Joshi, B (2015) Local and Regional Institutions and Environmental Governance in Hindu Kush Himalaya, *Environmental Science and Policy*, 49(2015)66-74
- Tiwari, P.C. and Joshi, B. (2015), Climate Change and Food Security in Himalaya, in M. Hartmann and W. Weipert (Eds), *Biodiversitat and Naturlausstattung im Himalaya, Bd. V.*, pp.63-76.
- Tiwari, P. C. and Joshi, B (2015), Global Change and Mountains: Consequences, Responses and Opportunities, in Velma Grover et al.(eds), *Impact of Global Changes on Mountains:*

Responses and Adaptation, Science Publishers, CRS Press, Taylor and Francis, USA, pp. 79-136, International Standard Book Number-13: 978-1-4822-0891-7 (eBook - PDF)

- Rawat, P. and Tiwari, P. C. (2015), Climate Change and its Impacts on Community Food and Livelihood in Kumaun Himalaya: A Case Study of Dabka Catchment, in Velma Grover et al.(eds), **Impact of Global Changes on Mountains: Responses and Adaptation**, Science Publishers, CRS Press, Taylor and Francis, USA, pp. 266-297, International Standard Book Number-13: 978-1-4822-0891-7 (eBook - PDF)
- Tiwari, P. C. (2014), Urban Growth and Assessment of its Natural and Socio-economic Risks in High Mountain Ecosystems: A Geospatial Framework for Institutionalizing Urban Risk Management in Himalaya. In: **Proceedings of the International Conference on Technologies for Development, 2014, Lausanne, Switzerland**, Hazboun, E. and Hostettler, S. (eds.); UNESCO Chair in Technologies for Development, Lausanne, 54.
- Tiwari, P. C. and Joshi, B (2014), Regional Cooperation for Integrated Water Governance in Hindu Kush Himalaya: A Precondition for Water Security and Climate Change Adaptation in South Asia, in Sarah, S. Aneel et al. (eds), **Proceedings of Sixteenth Sustainable Development Conference: Creating Momentum: Today is Tomorrow**, Sustainable Development Policy Institute, Islamabad, Pakistan pp. 277-294
- Joshi, B. and Tiwari, P. C. (2014), Women and Sustainable Mountain Development: An illustration of Indigenous Women's Adaptation to Climate Change in Himalaya; in Sarah, S. Aneel et al. (eds), **Proceedings of Sixteenth Sustainable Development Conference: Creating Momentum: Today is Tomorrow**, Sustainable Development Policy Institute, Islamabad, Pakistan pp. 131-144
- Tiwari, P. C. and Joshi, B (2014), Environmental Changes and their Impact on Rural Water, Food, Livelihood, and Health Security in Kumaon Himalaya. *International Journal of Urban and Regional Studies on Contemporary India*. Center for Contemporary India Studies, Hiroshima University, 1(1): 1–12 (2014)
- Tiwari, P. C. and Joshi, B (2014), Land Use Changes and Their Impact on Water Resources in Himalaya, in E. Grohmann et al. (eds), *Environmental Deterioration and Human Health: Natural and Anthropogenic Determinants*, pp 389-399, DOI10.1007/978-94-007-7890-0-18, Springer Science+Business Media, Dordrecht 2014
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- Tiwari, P. C. and Joshi, B (2013), Changing Monsoon Pattern and its Impact on Water Resources in Himalaya: Responses and Adaptation, in Jean Palutikof, Sarah L. Boulter, Andrew J. Ash, Mark Stafford Smith, Martin Parry, Marie Waschka and Daniela Guitart (eds.) *Climate Adaptation Futures*, Wiley Publishing Company, U.K., Chapter 29, pp. 633-644, 2013
- Aase, H.A., Chapagain, P and Tiwari, P. C. (2013), Innovation as an Expression of Adaptive Capacity to Change in Himalayan Farming, *Mountain Research and Development*, Vol. 33(1), Feb 2013: pp.4–10, <http://dx.doi.org/10.1659/MRD-Journal-D-12-00025.1>, 2013
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- Rawat, P., Tiwari, P. C., Pant, C. C., Sharma, A. K. and Pant, P.D. (2012), Climate Change Accelerating Land Use Dynamic and its Environmental and Socio-Economic Risks in the

Himalayas Mitigation through Sustainable Land Use, *International Journal of Climate Change Strategies and Management*, Vol. 4(4), pp. 452-471, DOI 10.1108/17568691211277764, 2012

- Tiwari, P. C. and Joshi, B (2012), Urban growth in Himalaya: Environmental Impacts and Developmental Opportunities, Global Change in Mountain Regions, *Mountains*, Mountain Research Initiative, No. 7, pp. 29-32, 2012
- Tiwari, P. C. and Joshi, B (2012), Natural & Socio-economic Drivers of Food Security in Himalaya, *International Journal of Food Security*, 4 (2), pp. 195-207, 2012, DOI 10.1007/s12571-012-0178-z
- Rawat, P., Tiwari, P. C., Pant, C. C., Sharma, A. K. and Pant, P.D. (2012), Geo-Hydrological Database Modeling For Integrated Multiple Hazards and Risk Assessment in Lesser Himalaya: A GIS Based Case Study, *Natural Hazards: Journal of the International Society for the Prevention and Mitigation of Natural Hazards*, ISSN 0921-030X, Vol. 62 (3) Nat Hazards (2012) 62, pp. 1233-1260, 2012, DOI 10.1007/s11069-012-0144-2
- Tiwari, P. C. and Joshi, B (2012), Environmental changes and sustainable development of water resources in the Himalayan headwaters of India, *International Journal of Water Resource Management*, 26 (4), pp. 26:883–907, 2012. DOI 10.1007/s11269-011-9825-y.
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- Climate Change and Rural Out-migration in Himalaya, **International Science Education Seminar on 'Global and Regional Environmental Changes in High Mountains'**, Russian State Hydro-meteorological University, St. Petersburg, Russia, 24-25 November 2019
- Trans-boundary River Basin Management in Himalaya for Sustainable Development and Peace and Security in South Asia under Climate Change, Plenary Lecture in the International Conference on **'Trans-boundary Regions under Global Change: Current Challenges and Development Trajectories'** Gorno-Altai State University, Gorno-Altai, Russia, 26-28 November 2019
- Urbanization in Himalaya: Understanding the Process and Option for Sustainable Development, **International Workshop on 'Sustainable Resource Use in Arctic and High Mountain Areas'**, Pskov State University, Pskov, Russia, 21-23 November 2019
- Climate Change Adaptation Governance in Himalaya, **International Symposium on Disaster Resilience and Green Growth for Sustainable Development**, National Institute of Disaster Management, New Delhi, 26-27 September 2019
- Climate Change, Livelihood and Migration Linkages in Uttarakhand, **EPICC – East Africa Peru India Climate Capacities: Second International Stakeholder Workshop**, New Delhi, 16-17 September 2019, New Delhi
- Risks, Challenges and Sustainable Development Urban Settlements in Himalaya, **International Workshop on 'Curriculum Development for High Mountain Regions'**, College of Natural Resources, Royal University of Bhutan, Lobesa, Punakha, Bhutan, 12 - 16 August 2019
- Urban growth in Himalaya: Understand the process of options for sustainable management under climate change, **International Summer School on 'Urban Mountains'**, Society for Urban Ecology and the Department of Geography and Geology, University of Salzburg, Salzburg, Austria, 08-12 July 2019
- Water, Food and Livelihood Security in Himalaya Under Climate Change, **International Workshop on Climate Change and Water Resources in Himalaya**, University of Bergen, Bergen, Norway, 04 - 07 June 2019
- Urban Growth and its Environment Impacts in Himalaya, **International Workshop on 'Mobility, Urbanization and Vulnerability in the Greater Himalaya Mountain Range'**, Yale University, New Haven, Connecticut, USA, 15-17 April 2019
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- Mountain Farming Systems and Food Security in Asia Under Climate Change, **Food and Agriculture Organization (FAO) of the United Nations International Experts' Consultation on 'Mountain Agriculture Development and Food Security and Nutrition Governance'** Beijing, 30 October - 01 November 2018
- Climate Change Adaptation in Water, Agriculture and Livelihood Sectors in Himalaya: Bridging Gap between Climate Science and Local Level Climate Change Adaptation, **Science and Training Workshop on Climate Change over the High Mountains of Asia**, Indian Institute of Tropical Meteorology (IITM), Pune, India, 8-12 October 2018
- Women Centric Low Tech Flood Early Warning System under Climate Change in Himalaya; **2018 International Conference, UNESCO Chair in Technologies for Development: Voices of the Global South**, 27-29 June 2018, EPFL. Lausanne, Switzerland
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- **Trans-boundary Headwater Governance in Hindu Kush Himalaya: Opportunities and Possibilities, Adaptation Future 2018: Dialogue and Solutions** [Fifth International Climate Change Adaptation Conference 2018], Cape Town, south Africa, 18-21 June 2018
- **International Workshop on Curriculum development in High Mountain**, Jawaharlal University, New Delhi, India, 18 May 2018
- **Educational and Research Development in High Mountain Studies**, University of Bergen, Bergen, Norway, 7-8 May 2018
- **Sustainable Resource Use in High Mountains and Arctic**, University of Bremen, Bremen, Germany, 15-16 February 2018
- **Mainstreaming Climate Change Adaptation into Sustainable Development Planning in Uttarakhand, Himalaya Summit**, Government of Uttarakhand, Dehradun, Uttarakhand, 09-10 September 2017
- **Integrated River Basin Governance in South Asia, World Resource Forum 2017 (WRF 2017)**, Geneva, Switzerland, 23-26 October 2017
- **Community and Scientists Participation for Climate Change Adaptation in Kumaon Himalaya, International Seminar on 'Environmental Governance and Sustainable Development in 21st Century India: Challenges for the mountain regions in the Anthropocene'**, Kumaun University, Nainital, India; 07-08 October 2017
- **Climate Change Adaptation Tool Kit Development for Himalaya, APN International Workshop**, 03-04 October 2017, New Delhi
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- **Community Based Climate Data Monitoring in Kumaon Himalaya, International Workshop on Climate-Smart Agriculture in South Asia** Peradeniya University, Kandy, Sri Lanka, July 15-18 July, 2017
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- **Women and Environmental Governance in Himalaya: An Empirical Study of Innovative Participatory Experiments by Women Managed Forest Councils in Uttarakhand, International Conference on 'Engaging Canada and India: Perspectives on Sustainability' organized by Shastri Indo-Canadian Institute**, New Delhi, New Delhi 11 – 12 May, 2017
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- **Mainstreaming Climate Change Adaptation in Development Planning, National Conference on 'Operationalizing Uttarakhand Action Plan on Climate Change: Applying Uttarakhand Vulnerability and Risk Assessment to integrate Climate Change in State Development Planning'**, Uttarakhand Climate Change Centre, Dehradun, 23 November 2016
- **Rainfall Variability and Urban Disaster Risk Reduction in Himalaya, International Conference on 'Mobilizing University Research for Tackling Water, Climate Change, and Adaptation Challenges in the Hindu Kush Himalayan Region (HKH)'**, International Centre for Integrated Mountain Development (ICIMOD), New Delhi, 24-26 October 2016

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- Key Issues and Challenges in Food and Nutrition Security in Hindu Kush Himalaya, **International Workshop on the Hindu Kush Himalayan Monitoring Assessment Programme (HIMAP)**, International Centre for Integrated Mountain Development (ICIMOD), Kathmandu, Nepal, 11-13 June 2016
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- Translating Large-Scale Climate Data into Stakeholder-relevant Information for Community-based Adaptation in the Kumaon Himalaya, **International Workshop on 'Climate Change Impacts and Adaptation in Himalaya: Science and Policy Interface'**, Kumaun University, Nainital, 2-3 November 2015
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- Integrating Disaster Risk Reduction and into Urban Climate Change Adaptation Governance in Developing World: Learning Experience from Ganges Flood Plains of India, **Future Perfect: Cities at the Forefront of Change and Development**, Centre for Local and Regional Governance, University of Philippines; **Quezon City, Philippines**, 7-9 October 2015
- Urban Growth under Climate Change in High Mountains: Assessment of Impact on Urban Water Security and Institutionalization of Community-led Adaptive Innovations for Policy Transformation in Himalaya, **Future Perfect: Cities at the Forefront of Change and Development**, Centre for Local and Regional Governance, University of Philippines; **Quezon City, Philippines**, 7-9 October 2015
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- Women's Adaptive Innovations in Land and Water Management under Climate Change in Himalaya: An Illustration of Reducing Gender Gap in Subsistence Agricultural Economy in Marginalized Environment, **GIGAR-CCAFS International Conference on 'Closing the Gender Gap in Farming'** Paris, 19 March 2015
- Climate Change and its Impacts on Food and Security in Himalaya: Responses and Adaptation, **International Conference on Climate Change Innovation and Resilience for Sustainable Livelihood**, 12-14 January 2015, Kathmandu, Nepal

- Mainstreaming Climate Change Adaptation into Integrated Watershed Management in Hindu Kush Himalaya: An Adaptive Approach for Improving Water and Food Security in South Asia; **Seventeenth Sustainable Development Conference: Pathways to Sustainable Development**; 9-11 December 2014; Sustainable Development Policy Institute (SDPI), Islamabad, Pakistan
- Role of Local and Regional Institutions in Climate Change Adaptation Governance in Himalaya, International Conference on '**Mountain People Adapting to Change: Solutions Beyond Boundaries Bridging Science, Policy, and Practice**' ICIMOD, Kathmandu, Nepal, 9-12 November 2014
- Urban Growth and Assessment of its Natural and Socio-economic Risks in High Mountain Ecosystems: A Geospatial Framework for Institutionalizing Urban Risk Management in Himalaya, Second **UGEC Conference on 'Urban Transitions and Transformations : Science, Synthesis and Policy'**, National Taipei University, Taipei, Taiwan, 6-8 November 2014
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- Regional Rainfall Variability and its Impact on Water Resources and Food Security in Himalaya: A Example for Enabling Climate Services in Mountains, **Climate Symposium 2014: Research and Earth Observation from Space - Climate for Decision Making**, EUMETSAT, Darmstadt, Germany, 13-17 October 2014.
- Monitoring Micro Regional Rainfall Variability and Observing its Impact on Local Natural, Socio-economic and Cultural Systems in Himalaya, **Global Fair and Workshop on Long-Term Observing Systems of Mountain Social-Ecological Systems**, Reno, Nevada, USA, 16-19 July 2014.
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- Urban Growth and Assessment of its Natural and Socio-economic Risks in High Mountain Ecosystems: A Geospatial Framework for Institutionalizing Urban Risk Management in Himalaya, **UNESCO Chair International Conference on Technologies for Development (Tech4Dev 2014)** Lausanne, Switzerland, 4-6 June 2014
- Climate Change and its Impact on Nature Based Tourism in Himalaya: Adaptation Through Multi-stakeholders Governance, **International Climate Change Adaptation Conference 2014 (Adaptation Future 2014)**, Fortaleza, Brazil, on 12 - 16 May 2014
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- Geospatial Decision Support System and its Institutionalization for Climate Induced Urban Risk Governance in Himalaya, **International Climate Change Adaptation Conference 2014 (Adaptation Future 2014)**, Fortaleza, Brazil, on 12 - 16 May 2014
- Women and Climate Change Adaptation: an Illustration of Indigenous Women's Adaptation Practices to Climate Change in Himalaya, **International Climate Change Adaptation Conference 2014 (Adaptation Future 2014)**, Fortaleza, Brazil, on 12 - 16 May 2014
- Urban Growth in High Mountains: Understanding Process and Building Urban Resilience to Climate Change and Natural Disasters in Himalaya, **Third International Science and policy Conference on the Resilience of Social and Ecological Systems (Resilience 2014)**, Montpellier, France on 04 - 08 May 2014

- Trans-boundary Headwater Governance in Hindu Kush Himalaya (HKH): Need for Building Regional Geo-political Resilience for Adaptation to Climate Change in South and East Asia, **Third International Science and policy Conference on the Resilience of Social and Ecological Systems (Resilience 2014)**, Montpellier, France on 04 - 08 May 2014
- Mainstreaming Climate Change Adaptation Through its Integration with Multilevel Natural Resource Governance System in High Mountain Ecosystems: A Case Illustration from Kumaon Himalaya **International Conference on Regional Climate Adaptation and Resilience (CLARR2014)**, Bremen, Germany 2014
- Women and Sustainable Mountain Development: An illustration of Indigenous Women's Adaptation to Climate Change in Himalaya, Sixteenth **Sustainable Development Conference - Creating Momentum: Today is Tomorrow**, Sustainable Development Policy Institute, Islamabad, Pakistan, 2013
- Regional Cooperation for Integrated Water Governance in Hindu Kush Himalaya: A Precondition for Water Security and Climate Change Adaptation in South Asia, Sixteenth **Sustainable Development Conference - Creating Momentum: Today is Tomorrow**, Sustainable Development Policy Institute, Islamabad, Pakistan, 2013
- Development of Climate Adaptation Toolkit for Ramgadh Watershed in Kumaon Himalaya, International Workshop on '**Working Towards Improving Resilience and Adaptive Capacity to Climate Change in Hindu-Kush-Himalaya**', Kathmandu, Nepal, 2012
- International Workshop on '**Climate Change, Rural-Urban Interactions and Livelihoods**', jointly organized by CSIRO, Australia and TERI University, India, TERI, New Delhi, 2013
- Adaptive Water Governance for Responding to Micro Regional Rainfall Variability in Himalaya, **Inter-governmental Panel for Climate Change (IPCC), World Climate Research Programme (WCRP) and European Commission (EC) joint International Conference on Regional Climate - CORDEX 2013**, Brussels, Belgium, 2013
- Regional Water Cooperation Framework for Climate Change Adaptation in South Asia, International Conference **Mountain Hazards-2013: Natural Hazards, Climate Change and Water in Mountain Areas**, Bishkek, Kyrgyzstan, 2013
- Urban Growth and Assessment of Its Natural and Socioeconomic Risks in High Mountain Ecosystems: A Geospatial Framework for Institutionalizing Urban Risk Management in Himalaya, **14th N-AERUS-GISDECO conference on Urban Futures, Multiple Visions, Paths and Constructions**, 2013, ITC, Enschede, The Netherlands
- Integrated Land and Water Management for Ecosystem Restoration and Climate Change Adaptation in Himalaya, **WCRP CORDEX Science and Technology Workshop in South Asia**, ICIMOD, Kathmandu, Nepal, 2013
- Climate Change Induced Migration and Urban Growth in Himalaya: Need for Climate Smart Livelihood Improvement in Rural Areas and Sustainable Urban Land Use; **The Hamburg Conference: Actions For Climate-Induced Migration**, University of Hamburg, Hamburg, Germany, 2013
- Changes in Indian Monsoon Pattern and its Impact on Water Resources, Agricultural System and Food Security in Himalaya: Need for Adaptive and Integrated Water Management; **Davos Atmosphere and Cryosphere Assembly: Air, Ice & Process Interactions (DACA-13)**, Davos, Switzerland, 2013
- Environmental Changes and Their Socio-economic Impacts in Himalaya, **Monsoon Asia Integrated Regional Study (MAIRS) 8th SSC Meeting and International Workshop**, 2013, Guangzhou, China
- Changing Rainfall Pattern and Risk of Hidden Hunger in Rural Himalaya: Need for Adaptive Agricultural and Food System Management, **International Hidden Hunger Congress**, 2013, University of Hohenheim, Stuttgart, Germany
- Trans-boundary Headwater Governance in Himalaya: A Geo-political Architecture for Climate Change Adaptation and Regional Security in South Asia, **Earth System Governance Tokyo Conference: Complex Architectures, Multiple Agents**, United Nations University Head Quarters, Tokyo, Japan, 2013

- Land Use Changes and their Impacts on High Altitude Range Land Ecosystems, International Workshop on '**Management Priorities for High Altitude Rangelands and their Interfaces**', 2012, ICIMOD, **Pokhara, Nepal**
- Climate Change and Indigenous Women's Responses in Himalaya, **Bhutan+10: Gender and Sustainable Mountain Development in a Changing World**, 2012, ICIMOD, **Kathmandu, Nepal**
- Rainfall Variability and its Impact on Water Resources in Himalayan Headwaters: Need for Long-term Adaptive and Integrated Water Resource Management and Governance Policy; **International Conference on Climate, Water and Policy 2012 (ICCWP)**, 2012, Asia Pacific Economic Cooperation (APEC) Climate Centre (APCC), **Bussan, Korea**
- Environmental Changes and Hydrological Responses of Himalayan Headwaters: Need for Community Based Adaptation Strategies, **International Workshop on Climate Change Impacts on Water – Land and Adaptation Strategies in the Tibet-Himalayan Region 2012**, **Pokhara, Nepal** organized by Monsoon Asia Integrated Regional Study (MAIRS) and ICIMOD
- Women's Empowerment in Natural Resources for Equitable Earth System Governance in Himalaya, **Earth System Governance International Conference – Towards a Just and Legitimate Earth System Governance: Addressing Inequalities**, International Earth System Governance Project, University of **Lund, Sweden**, 2012
- Twenty years of regional governance in mountain areas: Key lessons and challenges, **Planet under Pressure (PuP) 2012: Knowledge Towards Solutions**, **IGBP International Conference**, 2012, **London, UK**
- Participatory Management of Headwater Ecosystems Using Indigenous Knowledge & Traditional Water Management System: Experiences from Indian Himalaya, **Planet under Pressure (PuP) 2012: Knowledge Towards Solutions**, **IGBP International Conference**, 2012, **London, UK**
- Depleting Water Resources and its Impact on Marginalized Community Health in High Mountains: An Experience from Himalaya, **Planet under Pressure (PuP) 2012: Knowledge Towards Solutions**, **IGBP International Conference**, 2012, **London, UK**
- Institutionalizing State Property Forest Resources for Adaptation to Climate Change in Himalaya, **Fourteenth Sustainable Development Conference: Redefining Paradigms of Sustainable Development in South Asia**, Sustainable Development Policy Institute (SDPI), **Islamabad, Pakistan**, 2011
- Changes in Monsoon Pattern and its Impact on Water Resources in Himalaya: Community Responses and Adaptation, International Conference on **Managing Alpine Future – II**, **Innsbruck, Austria**, 2011
- Climate Change and Sustainability of Water Resources in Himalaya: Potential Adaptation Options Using Traditional Knowledge and Indigenous Water Management System, International Conference on **Problems of Climate Change Adaptation (PACC 2011)**, **Moscow, Russia**, 2011
- Rainfall Variability, Landslides and Food Security in Himalaya, **Second World Landslide Forum**, **FAO Headquarters, Rome, Italy**, 2011
- Climate Change & Hazards in Himalaya, **UNDP International Conference on Climate Changes and Natural Hazards in Mountain Areas**, **Dushanbe, Tajikistan**, 2011
- Changing Rainfall Pattern and its Impact on Food Security in Himalaya: Adaptation by Marginalized Mountain Communities, **United Nation's University (UNU) International Workshop on Indigenous Peoples, Marginalized Populations & Climate Change Vulnerability, Adaptation and Traditional Knowledge**, 2011, **Mexico City, Mexico**
- Changing Precipitation Pattern and its Impact on Rural Food in Himalaya: Responses & Adaptation by Indigenous Communities, **International Conference of IGU Commission on Marginalization, Globalization, and Regional and Local Responses**, 2011, **Nainital, India**
- Integrated Headwater Management for Conservation of Water Resources in Himalaya, **Scoping Workshop on Enhancing Science - Policy Dialogue on Himalayan Water Resources in the Global Change Context**, 2011, **Kathmandu, Nepal**
- Livelihood and Food Security for Socially Backward Communities: Constraints in Improvement in Himalayan Mountain Ecosystem, **Thirteenth Sustainable Development Conference: Peace and Sustainable Development in South Asia**, 2010, Sustainable Development Policy Institute (SDPI), **Islamabad, Pakistan**

- Changing Precipitation Pattern and its Impact on Food Security in Himalaya: Responses & Adaptation, 117th Seminar of the European Association of Agricultural Economists (EAAE) on **‘Climate Change, Food Security and Resilience of Food and Agricultural Systems in Developing Countries: Mitigation and Adaptation Options’** Food Security Centre (FSC), University of Hohenheim, **Stuttgart-Hohenheim, Germany, 2010**
- Land Use Changes and their Impact on Ecosystem Services and Livelihood Security in Himalaya, **International Global Land Project Open Science Meeting 2010 on Land Systems, Global Change and Sustainability, Arizona State University, Tempe, Arizona USA, 2010**
- Urban Growth and its Impact on Biodiversity and Food & Livelihood Security in High Mountain Ecosystems: An Empirical Study in Kumaon Himalaya, India, **Joint Session of International Global Land Project Open Science Meeting 2010 & International Conference on Urbanization and Global Environmental Change: Opportunities and Challenges for Sustainability in an Urbanizing World, Arizona State University, Tempe, Arizona, USA, 2010**
- Changing Monsoon Pattern and Livelihood Options in Himalaya: Responses & Adaptation, **International Conference on Global Change & World’s Mountains**, Centre for Mountain Studies, Perth College, **Perth, Scotland, U.K., 2010**
- Rainfall Pattern Change and its Impact on Water Resources in Himalaya, **International Workshop on Integrated Studies of Environmental Changes and Climate Adaptation Responses in the Tibet-Himalayan Region**, Monsoon Asia Integrated Regional Study (MAIRS), **Kathmandu, Nepal, 2010**
- Changing Monsoon Pattern and its Impact on Water Resources in Himalaya: Responses & Adaptation, **2010 Climate Change Adaptation Conference**, Australian National Climate Change Adaptation Research Facility (NCCARF), **Gold Coast, Australia, 2010**
- Physical and Socio-economic Factors of Food Security in Kumaon Himalaya, Mountain Research Initiative (MRI) **International Workshop on ‘Key Drivers of Food Security in Mountains’**, **Bern, Switzerland, 2010**
- Participatory Forest Management in Himalaya: Change through Women’s Education & Capacity Building, **2nd International Conference on ‘Gender & Forestry’** Swedish University of agricultural Sciences, **Umea, Sweden, 2009.**
- Developmental of Non Traditional Livelihood Options for Resource Conservation & Restoration of Ecosystem Services in Himalaya, **IHDP 7th International Science Conference on the Human Dimensions of Global Environmental Change (IHDP Open Meeting 2009)**, **Bonn, Germany, 2009**
- Land Use Dynamic and Conservation of Water Resources in Himalaya, **International Conference of Norwegian Geographical Society (NGS), Trondheim, Norway**, Common Pool Resource Management for Rural Livelihood Improvement and Income Generation in Himalaya, **Tenth Sustainable Development Conference**, Sustainable Development Policy Institute (SDPI), **Islamabad, Pakistan, 2007**
- International Workshop on Improving Global Health through Safe Water, **International Workshop on Water and Health (UNU-INWEH)**, **United Nations University, Hamilton, Canada, 2007**
- Common Pool Resource Management for Environmental Restoration and Livelihood Development in Indian Himalaya, **Earth System Science Partnership (ESSP) Open Science Conference**, **Beijing, China, 2006.**
- Sustainable Development of Water Resources in Himalaya, **IGU Regional Conference, Queensland University of Technology, Brisbane, Australia, 2006**
- Management of Common Pool Wasteland in Himalaya, **International Conference on Management of Spatial Information, Nairobi, Kenya, 2005**
- Aboriginal Forestry Management in Canada, **International Conference: Resource Conservation and Beyond, University of Toronto, Canada, 2005**
- People’s Participation and Shared Decision Making in Natural Resource Management in Canada, **Annual Congress of Canadian Association of Geographers’**, **University of Western Ontario, London, Canada, 2005**
- Capacity Building of Government Line Department in Making Use of Geospatial Database in Natural Resource Management in India **International Conference on GIS for Developing Countries (GISDECO – 2004)**, **University of Technology Malaysia (UTM), Malaysia, 2004.**

- Environmental Changes and Management of Water Resources in the Central Himalaya, International Conference on the **Management of Headwater Resources, United States International University, Nairobi, Kenya, 2002**
- Natural Resources Information System for Public Sector User Agencies for the Sustainable Development of Natural Resources in Uttaranchal Himalaya, International Conference on **GIS for Developing Countries (GISDECO-2002), International Institute of Geo-information Science and Earth Observation (ITC), Enschede, The Netherlands, 2002.**
- Environmental Transformations in Himalaya and their Impact on Sustainability of Regional Rural Ecosystem, **IGU International Conference on Sustaining Rural Environments, Northern Arizona University, Flagstaff, Arizona, USA, 1999.**
- Appraisal and Management of Land Resources for Sustainable Rural Ecosystem Development in Himalaya, **IGU Conference, Prague, Czech Republic, 1994.**
- Environmental Degradation in Himalaya: Causes and Consequences and Solutions, **IGU International Conference, Beijing, China, 1990.**

10.Seminars, Workshops, Conference Sessions and Professional Courses Organized:

S. No	Status as organizer	Title of Conference/Seminar	Year and Dates
1	Coordinator	Refresher Course for University and University and College Teachers of Geography, at University Grants Commission (UGC) - Human Resource Development Centre (HRDC), Kumaun University, Nainital	07-21 November 2019
2	Convener	International Stakeholder Workshop on 'Climate Change Adaptation through Improved Coordination between Government Line Departments and Community Institutions in Middle Himalaya', Kumaun University, Nainital, Uttarakhand, India, 27-28 June 2019	27-28 June 2019
3	Coordinator	Refresher Course for University and University and College Teachers on Disaster Management at University Grants Commission (UGC) - Human Resource Development Centre (HRDC), Kumaun University, Nainital	21 February 14 March 2019
4	Convener	International Stakeholder Workshop on Drought Assessment and Adaptive Natural resource Management in Himalaya	17 November 2018
5	Convener	International Workshop on Mountain Specific Curriculum Development in Higher Education, Nainital	21 May 2018
6	Convener	Resilient Himalaya (APN Project International Workshop), New Delhi	03-04 October 2017
7	Convener	Climate Change Tool Kit development for Uttarakhand Himalaya (APN Project International Workshop), New Delhi	27-28 April 2017
8	Member Organizing Committee	International Congress on Green Urban Futures 2017, New Delhi	09-10 February 2017
9	Convener	International Training Workshop on 'Climate Data Analysis and Projections' organized in collaboration with Newcastle University, Newcastle, UK, sponsored by the British Council	26-27 August 2016
10	Convener	Workshop on Climate Change Impact Community Based Adaptation in Himalaya, jointly organized by Kumaun University, Nainital and Australian National University, Canberra, Australia	28-29 March 2016
11	Convener	Asia Pacific Global Change Research (APN) Workshop on Climate Change Adaptation in Middle Himalaya	4 November 2015
12	Convener	International Workshop on 'Climate Change Impacts and Adaptation in Himalaya: Science and Policy Interface	2 - 3 November 2015

13	Scientific Committee Member	World Association for Soil and Water Conservation (WASWAC) International Youth Forum 2015	16-18, October 2015
14	Session Organizer	Perth- III: Mountains of Our Future Earth	04 - 08 October 2015
15	Session Organizer	International Association of Landscape Ecology (IALE) World Congress 2015 (IALE 2015), Portland, USA	05-10 July 2015
16	Co-Convener	Hydropower Irrigation Nexus in Ganges Headwater in Uttarakhand	18 - 20 February 2015
17	Session Organizer	Sustainable Development Conference (SDC): Pathways to Sustainable Development, Islamabad, Pakistan.	09-11 December 2014
18	Session Organizer	International Conference on Urbanization and Global Environmental Change, Taipei, Taiwan	06-08 December 2014
19	Session Organizer	Asia-Pacific Climate Change Adaptation Forum 2014, Kuala Lumpur, Malaysia, 1-3 October 2014	01-03 October 2014
20	Session Organizer	Global Fair and Workshop on Long-Term Observing Systems of Mountain Social-Ecological Systems, Reno, Nevada, USA (Organized and Chaired Four Sessions)	16-19 July 2014
21	Session Organizer	Resilience and Development: Mobilizing for Transformation (Resilience 2014), Montpellier, France	04-08 May 2014
22	Convener	Indo-German Lake Conservation Initiative Workshop	19-20 November 2012
23	Convener	Refresher Course for University and University and College Teachers on Geography and Global Change at University Grants Commission (UGC) - Human Resource Development Centre (HRDC), Kumaun University, Nainital	19 October to 08 November 2012
24	Convener	International Synthesis Workshop on Urban Growth in High Mountains: Understanding the Process and Options for Management under Global Change jointly organized with Mountain Research Initiative (MRI), Switzerland	01-05 November 2011

11. Sessions chaired in Conferences and Seminars:

S. No.	Title of the seminar	Organized by	Year and dates
13	Perth- III: Mountains of Our Future Earth	University of Perth, Perth, UK	04 - 08 October 2015
14	International Association of Landscape Ecology (IALE) World Congress 2015 (IALE 2015), Portland, USA	International Association of Landscape Ecology (IALE)	05-10 July 2015
15	Hydropower Irrigation Nexus in Ganges Headwater in Uttarakhand	University of Arizona, Arizona, USA	18 - 20 February 2015
16	Sustainable Development Conference (SDC): Pathways to Sustainable Development, Islamabad, Pakistan.	Sustainable Development Policy Institute, Islamabad, Pakistan	09-11 December 2014
17	International Conference on Urbanization and Global Environmental Change, Taipei, Taiwan	Urbanization and Global Environmental Change, USA	06-08 December 2014
18	Asia-Pacific Climate Change Adaptation Forum 2014, Kuala Lumpur, Malaysia	Asia-Pacific Climate Change Adaptation Network, Thailand	01-03 October 2014
19	Global Fair and Workshop on Long-Term Observing Systems of Mountain Social-Ecological Systems, Reno, Nevada, USA (Organized and Chaired Four Sessions)	Mountain Research Initiative, Switzerland	16-19 July 2014

20	Resilience and Development: Mobilizing for Transformation Montpellier, France	University of Montpellier, France	04-08 May 2014
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12. Academic/Administrative Positions Held:

S. No	Position	Committee/Board	Year (From-To)
1	Head Department of Geography, DBS, Campus	Kumaun University, Nainital	01 October 2018 - Till Date
2	Nodal Officer	Disaster Management, Kumaun University, Nainital	01 September 2019 - Till Date
3	Coordinator [Kumaun University]	Himalayan Universities' Consortium [HUC] International Centre for Integrated Mountain Development [ICIMOD], Kathmandu, Nepal	2018- Till Date
4	Coordinator	Kumaun University, Community College	2015
5	Convenor	Convenor Post Graduate Examination Evaluation Committee Kumaun University	2011
6	Group Leader	Agriculture, Food Livelihood Group, Uttarakhand Climate Change Centre, Kumaun University, Nainital	2010-Till Date
7	Assistant Proctor	DSB Campus, Kumaun University, Nainital	1997-2002
8	Member	Faculty Board, Faculty of Arts Kumaun University, Nainital	2007-Till Date
9	Member	Board of Studies in Geography, Kumaun University, Nainital	2007-Till Date
10	Convener	Ph.D. Admission Committee, Department of Geography, DSB Campus, Kumaun University, Nainital	1996-2006
11	Programme Officer	National Service Scheme (NSS), DSB Campus, Kumaun University, Nainital	1997-2000

13. Membership to Professional Organizations/Associations/Scientific Bodies:

S. No	Organizations/Associations	Status of Membership
1	Earth System Governance (ESG) Project of International Human Dimension Programme (IHDP)	Senior Research Fellow
2	European Land Use Institute (ELI)	Member of Scientific Advisory Board and Council Member
3	Commission on Water Sustainability of International Geographical Association	Life Member
4	Commission on Tourism of International Geographical Association	Life Member
5	Commission on Cold Region Environment of International Geographical Union (IGU)	Member of Scientific Steering Committee
6	World Association of Soil and Water Conservation	Invited Life Member
7	Mountain Forum	Life Member
8	Mountain Partnership	Life Member
9	International Human Dimensions Programme of Global Environmental Change (IHDP)	Life Member
10	Urbanization and Global Environment Change (UGEC)	Senior Research Fellow

11	Global Mountain Commission (GMC)	Senior Research Fellow
12	Mountain Research Initiative (MRI)	Senior Research Fellow
13	Monsoon Asia Integrated Regional Study (MAIRS)	Member of Scientific Committee of Mountain Core Group
14	International Union of Forestry Research Organizations (IUFRO)	Invited Member of South Asia Task Force on Indigenous Knowledge System
15	International Association of Landscape Ecology (IALE)	Member of IALE India Chapter Formation Committee
16	Scientific Committee Member	Mountain Study Group of Monsoon Asia Integrated Regional Study (MAIRS)
17	Invited Observer	Scientific Steering Committee (SSC) of Monsoon Asia Integrated Regional Study (MAIRS)
18	Indian Representative Partner	Mountain Research Initiative (MRI) Global Commission

14. Any Other Information:

[i] Scientific and Academic Visits to Foreign Countries

2019: Russia, Bhutan, Germany, Austria, The Netherlands, Norway, Finland, Estonia, United States of America, United Kingdom

2018: China, Switzerland, South Africa, Norway, France, Germany, The Netherlands

2017: Switzerland, Germany, Sri Lanka, Japan [February 2017 and June 2017]

2016: Nepal, The Netherlands, Qatar, United Kingdom [January, February, June and July]

2015: United Kingdom, Philippines, Hong Kong, France, Australia, China, Nepal

2014: Taiwan, Nepal, Germany, USA, Switzerland, Brazil, France, The Netherlands

2013: Nepal, Belgium, The Netherlands, Kyrgyzstan, Kazakhstan, Switzerland, Germany, China, Norway, Japan

2012: Japan, Bhutan, South Korea, Germany, Denmark, Sweden, Nepal, United Kingdom

2011: Austria, Russia, Italy, Germany, Tajikistan, USA, Mexico, China, Nepal

2010: Germany, Turkey, USA, UK, Nepal, China, Australia, Singapore, Switzerland

2009: Sweden, Germany, Turkey

2008: Finland, Norway, The Netherlands, Germany, Austria, France, Sweden

2007: Germany, Austria, Denmark, Japan, Canada, Norway

2006: Australia, Malaysia, Canada, China

2005: Canada, Switzerland, Kenya

2004: Kenya, Malaysia, Singapore

2002: Germany, Austria, The Netherlands, France, Belgium, Kenya, UAE

1999: USA, Thailand, Nepal

1997: Canada, United Kingdom

1994: Czech Republic, Germany

1990: China, Hong Kong

[ii] Participation in Professional Training Programmes and Summer Schools:

2014: National Training Workshop on Climate Change Adaptation Toolkit, **United Nations Development Programme (UNDP)**, New Delhi

2013: Coordinated Regional Downscaling Experiment (CORDEX): A Regional Climate Data Downscaling Training Programme jointly organized by **World Meteorological Organization (WMO)**, **International Centre for Integrated Mountain Development (ICIMOD)**, **Kathmandu, Nepal** and **World Climate Research Programme (WCRP)**, **Switzerland**

2002: Geo-informatics Applications in Water Resource Management, **International Centre for Geo-information Science and Earth Observation (ITC)**, **Enschede, The Netherlands**

2000: GPS Applications in Resource Mapping, **Department of Civil Engineering, Indian Institute of Technology (IIT), Mumbai, India**

2000: GIS Applications in Integrated Watershed Management, **Indian Institute of Remote Sensing (IIRS)**, **ISRO, Government of India, Dehradun**

- 1999: GRAM++ GIS Users' Training, **Centre for Studies in Resource Engineering (CSRE), Indian Institute of Technology, (IIT), Mumbai**
- 1999: RS and GIS Applications in Natural Resource Management, **Regional Remote Sensing Service Centre (RRSSC), ISRO, Government of India, Dehradun**
- 1997: **Canadian Studies Summer Institute**, Carleton University, Ottawa, Canada.
- 1995: GIS Applications in Sustainable Mountain Development, **International Centre for Integrated Mountain Development (ICIMOD), Kathmandu, Nepal**
- 1993: Remote Sensing Applications in Resource Analysis, **Indian Institute of Remote Sensing (IIRS), ISRO, Government of India, Dehradun**
- 1987: Advanced Cartography and Thematic Mapping, **National Atlas and Thematic Mapping Organisation (NATMO), Government of India, Kolkata**

[iii] Reviewer of Intergovernmental Projects and Reports:

- **2018 - Invited Reviewer and Expert:** Country Reports of India, Cambodia and Lao PDR on Mountain Farming Systems and Food Security in Asia Under Climate Change for **Food and Agriculture Organization (FAO) of the United Nations**
- **2014 - Invited Reviewer:** Fifth Assessment Report (AR5) of Intergovernmental Panel on Climate Change (IPCC)
- **2013 - Invited Reviewer:** Himalayan Climate Change Adaptation Programme (HICAP) A Multi-Institutional Collaborative and Policy-Relevant Applied Research Programme Implemented by ICIMOD, Kathmandu, Nepal
- **2012 - Expert Reviewer:** Sustainable Mountain Development, Green Economy and Institutions: From Rio 1992 to Rio, Global Report for Rio 2012 Sponsored by Swiss Agency for Development and Cooperation (SDC); Centre for Development and Environment (CDE), University of Bern, University of Geneva and Mountain Partnership
- **2012 - Expert Consultant and Reviewer:** The Kailash Sacred Landscape Conservation and Development Initiative (KSLCDI): A Trans-boundary Collaborative Programme between China, India, and Nepal being Implemented by ICIMOD

[iv] Editor and Member of Editorial Board International Scientific Journals:

- **Chief Editor:** International Journal of Geography and Regional Planning, UK
- **Member of Editorial Board:** Change and Adaptation in Socio-Ecological Systems (CASES), Bonn, Germany
- **Member of Editorial Board and Section Editor:** Journal of Global Innovations in Agricultural and Social Sciences, The Netherlands
- **Member of Editorial Board:** International Soil and Water Conservation Research (ISWCR) of World Association of Soil and Water Conservation (WASWAC)
- **Consultant** of Council for Advancement of People's Action and Rural Technology (CAPART), Ministry of Rural Development, Government of India (1995-2000)

[v] Involvement with National and State Level Policy Planning and Training Institutions:

- **Guest Faculty:** Indian Institute of Remote Sensing (IIRS), ISRO, Dehradun
- **Guest Faculty:** National Centre for Good Governance (NCGG), Mussoorie, Uttarakhand
- **Guest Faculty:** Wildlife Institute of India (WII), Dehradun, Uttarakhand
- **Guest Faculty:** Uttarakhand Academy of Administration, Nainital, Uttarakhand
- **Guest Faculty:** UGC Human Resource Development Centre, Kumaun University, Nainital, Uttarakhand
- **Guest Faculty:** UGC Human Resource Development Centre, Mizoram University, Aizawl, Mizoram
- **Master Trainer:** Inter-cooperation Social Development India (ISDI) as Master Trainer on Climate Change Adaptation
- **Knowledge Partner:** Indian Himalaya Climate Adaptation Programme (IHCAP) of the Swiss Agency for Development and Cooperation (SDC)
- **Knowledge Partner:** Himalayan Adaptation, Water, and Resilience (HI-AWARE) Programme of International Development Research Centre (IDRC), Canada and International Centre for Integrated Mountain Development (ICIMOD), Nepal

- **Expert Consultant:** Council for Advancement People's Action and Rural Technology (CAPART)

[vi] Reviewer of International Scientific Journals:

- International Journal of Urban Ecosystems
- International Journal of Environmental Protection
- International Journal of Water Resource Management
- International Journal of Food security
- Land Use Policy (The Netherlands)
- Archives of Environmental Science
- Natural Hazards
- Pakistan Journal of Agricultural Sciences
- Ecological Processes

[viii] Invited Scientific Lectures Delivered at Institutions of Excellence:

- 2019: Pskov State University, Pskov, Russia
- 2019: Russian State Hydro-meteorological University, St. Petersburg, Russia
- 2019: College of Natural Resources [CNR], Royal University of Bhutan, Lobesa, Punaka, Bhutan
- 2019: Leibniz Institute of Ecological, Urban and Regional Development (IOER), Germany
- 2019: University of Salzburg, Salzburg, Austria
- 2019: National Centre for Good Governance (NCGG), Mussoorie, Uttarakhand
- 2018: Indian Institute of Tropical Meteorology (IITM), Pune, India
- 2017: Technical University Dresden (TUD), Dresden, Germany
- 2017: Hiroshima University, Hiroshima, Japan
- 2016: University of the West of England (UWE), Bristol, UK
- 2015: Newcastle University, Newcastle, United Kingdom
- 2013: Tohoku University, Sendai, Sendai, Japan
- 2013: University of Kobe, Kobe, Japan
- 2012: University of Hiroshima, Hiroshima, Japan
- 2012: University of Nagoya, Nagoya, Japan
- 2009: Fatih University, Istanbul, Turkey
- 2009: Swedish University of Agricultural Sciences, Umea, Sweden
- 2008: ITC, Enschede, The Netherlands
- 2008: University of Leipzig, Leipzig, Germany
- 2008: South Asia Institute, University of Heidelberg, Heidelberg, Germany
- 2008: Technical University Dresden (TUD), Dresden, Germany
- 2008: University of Salzburg, Salzburg, Austria
- 2008: University of Turku, Turku, Finland
- 2008: Goldsmith Lecture at Norwegian Geological Survey (NGU), Trondheim, Norway
- 2008: University of Bergen, Bergen, Norway
- 2007: Tohoku University, Sendai, Sendai, Japan
- 2007: Martin Luther University, Halle, Germany
- 2007: University of Education and Training, Sendai, Japan
- 2002: University of Leipzig, Leipzig, Germany
- 2002: Martin Luther University, Halle, Germany
- 2002: University of Salzburg, Salzburg, Austria
- 2002: Helmholtz Centre for Environmental Research (UFZ), Leipzig, Germany