


**Summer Field School [Online] on  
 MOUNTAIN ECOSYSTEMS AND RESOURCE MANAGEMENT  
 Ivano-Frankivsk Region, Ukraine :: 19-28 September, 2021**

**DELEGATE PARTICIPANT'S PROFILE**

	<p><b>Mr. Prakash Singh Thapa</b>  <i>Under Secretary</i>          Department of Forests and Soil Conservation          Ministry of Forests and Environment</p> <p>Kathmandu, Nepal          Tel: +977-014220552          Email: <a href="mailto:prakashsthapa7@gmail.com">prakashsthapa7@gmail.com</a></p>
<p><b>Highest Education</b></p>	<p>PhD Scholar, Japan</p>
<p><b>Personal Statement</b></p>	<p>Dear colleagues! Further I would like to say a few words in order to present myself as the delegate participant for the forthcoming Summer School on 'Mountain Ecosystems and Resource Management'. I have completed Masters degree in Forestry and working as an Under-secretary for the Department of Forests and Soil Conservation, under Ministry of Forests and Environment, Government of Nepal. I have been working in the field of Forest Management, Reducing Emissions from Deforestation and Forest Degradation (REDD+), Soil Conservation &amp; Watershed Management and Springshed management for more than 10 years as a Government Officer. Furthermore, I have recently accomplished two watershed projects entitled "Landslide Prevention and Stabilization of Slopes in the Most Earthquake affected District of Nepal" (Implemented by Government of Nepal &amp; FAO TCP/NEP/3601) and "Building Resilience to Landslides through Support for Community-Based Rehabilitation and Mitigation Actions and the Establishment of Early Warning Systems in Nepal" (Implemented By Government of Nepal in collaboration FAO and USAID OSRO/NEP/602), implemented after mega earthquake in Nepal. My main areas of expertise include Integrated Watershed Management, Upstream-downstream linkages,</p>

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	<p>Payment for Environmental Services, Springshed management and Ecosystem based disaster risk reduction. I have published several articles on national and international journals related to forestry and watershed management. I have completed Master’s degree in Forestry from the Tribhuvan University of Nepal and honored with Gold Medal from Rt. Honorable President of Nepal in the year 2010 for excellent performance in the University. Currently, Government of Nepal has nominated me for pursuing the PhD in the Ishikawa Prefectural University Japan focusing “Ecosystem based solutions for Disaster Risk Reduction in Nepal and Japan”.</p>
<b>Paper/Presentation Title          (Unpublished Research or Review or Field Work)</b>	<i>Building Resilience to Natural Hazards through Community-Based Rehabilitation and Mitigation Actions and the Establishment of Early Warning System: Experiences from the Nepal Himalaya</i>
<b>Keywords</b>	Landslide; Early Warning Systems; Community Participation; Bioengineering
<b>Abstract (100-300 words)</b>	<p>Natural disasters such as floods, landslides, and earthquakes are very common in the Nepal Himalaya as being seismically active and varied topography. Increasing population and rural-urban migration in recent years are influencing factors for big loss of life and property every year. The effect of landslide can be reduced in two way: structural and non-structural. Structural measures such as retaining walls, bio-engineering are sometimes costly and ineffective due to terrain condition with unpredictable physical as well as meteorological conditions. In such cases, non-structural measures such as Landslide Early Warning System (LEWS) can be applied by increasing community awareness and monitoring system. Involvement of community in EWS process is always important and sustainable. Based on landslide susceptible map and community need LEWS system has been installed in three watersheds of with the major landslides in the Kalinchowk rural municipality, Dolakha, Tadi rural municipality, Nuwakot, and Konjyosom Rural Municipality of Lalitpur, Nepal to understand the surface dynamics and relations between rainfalls with surface movement. Mehele landslide, Saureni landslide and Methum</p>

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	<p>Landslide were selected to establish this system after rigorous discussion with community, community leader and expert from the related district level government organizations. Altogether 495 people from 117 households in Dolakha and 383 people from 75 households in Nuwakot and 150 households are being benefited from this system and most of them are from marginalized population.</p> <p>The system consists of microcontroller and interfacing circuit, extensometer, Solar panel, Siren, and Soil moisture sensor with rain gauge stations. The message generated through the system can be sent via GSM network to responsible organizations to circulate the warning to the local resident and to the local police for the security management and search-rescue operations. This instrument is very simple and can be easily operable by community however landslide monitoring is a complex process where technical skill and communication skill should amalgamate together. In addition to the Landslide early warning system, bioengineering measures (15 different technologies) such as Gabion Checkdam, retaining walls, palisades, fascines, plantation, recharge ponds, water channels, etc. were also applied for the treatment of the landslides with community participation in the watersheds to develop resilience against landslide hazards.</p>
<b>More Information (weblinks)</b>	<a href="https://www.researchgate.net/profile/Prakash-Thapa-6">https://www.researchgate.net/profile/Prakash-Thapa-6</a> <a href="https://orcid.org/0000-0002-6246-0657">https://orcid.org/0000-0002-6246-0657</a>