

RESUME

Rohini P. Devkota

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A brief snapshot of my Resume

I am perusing my research at Australian Centre for Sustainable Catchments, University of Southern Queensland, Australia. My research areas are climate change adaptation, wastewater/ leachate treatment, solid waste management, greenhouse gas emissions. My PhD is flood adaptation strategies under climate change. I completed my masters in Environmental Science and Technology from UNESCO-IHE Institute for Water Education, Delft, the Netherlands where I estimated greenhouse gases emission from wastewater treatment system. Prior to come in Australia, I served as a Lecturer at Tribhuvan University, Nepal where I involved for supervising Master level research students and delivering classes of climate change and wastewater treatment. Previously, I was an Environmental Officer at the Ministry of Local Development, Government of Nepal where I prepared the baseline document of solid waste management for all municipalities of Nepal and conducted research work on leachate treatment process and estimated GHG emissions. I have published more than four dozen articles in national and international journals and magazines.

Key interest area: Climate change/GHG's emission, Wastewater/Leachate treatment, Solid waste management, Carbon modelling/calculation

Academic Qualification

❖ **PhD University of Southern Queensland (USQ), Toowoomba, Australia**

- **Research title:** 'Perceived Impacts and Flood Adaptation Strategies under Climate Change in Nepal'

❖ **Master of Science in Environmental Science, Specializing in Environmental Science and Technology from UNESCO-IHE Institute for Water Education, Delft, The Netherlands**

- **Research title:** 'Greenhouse Gas Emissions form Eco-technological Wastewater Treatment Systems'
- *Major subjects:* Environmental Engineering, Solid Waste Engineering, Wastewater treatment, Analytical tools in Environmental Science, Environmental System Analysis, Cleaner production and water cycle etc.
- **Bachelor of Science in Environmental Management from School of Environmental Management and Sustainable Development (SchEMS), Pokhara University, Nepal**
- **Research title:** 'Conflict Management in the Use of Wetland Resources of Beesh Hazar Lake' Chitwan, Nepal
- *Major subjects:* Environmental Engineering, Wastewater management and treatment process, Solid waste management, Watershed Management, Environmental Tools EIA,

Training

- Waste handling and reuse recycle training
- *Training Course for Facilitation Skills: Technology of Participation, Participatory Strategic Planning on Facilitation Skills*, December, 2002. The Institution of Cultural Affairs (ICA Nepal)
- *EIA Package Course*: Jan –July 2000, organized by SchEMS, Kathmandu, Nepal.

Awards

- The National Climate Change Adaptation Research Facility (NCCARF) Grant, 2013
- Best poster award ‘Most Thought Provoking Research’, USQ research evening, 2011
- University of Southern Queensland Postgraduate Research Scholarship, Australia, 2011
- Netherlands Fellowship Program, The Netherlands, 2005
- First, Essay competition in SchEMS, The World Environment Day 2002

Work Experiences

❖ **University of Southern Queensland (USQ), Toowoomba, Australia,**

11- 22 June, 2013

Examination Supervisor: Master degree students examination supervision

❖ **Central Department of Environmental Science, Tribhuvan University, Kathmandu, Nepal**

17 July 07 – Feb. 2011 (full time: July 2009 to Feb. 2011)

Lecturer, Research works, teaching students (climate change and wastewater treatment, wastewater lab work), and Supervising Master Degree research students

❖ **United Nation Development Programme (UNDP), Kathmandu, Nepal**

Aug. to Sept., 2010 (Part time for 2 years)

- **Researcher :** Greenhouse gas inventory of UNDP
 - Identify the relevant GHG sources emitted by UNDP, Nepal.
 - Quantify the GHG from solid waste/ design the waste management plan
 - Estimate per capita and total GHG emissions from UNDP staffs.
 - Develop an action plan of UNDP moving towards a green country office.

❖ **Solid Waste Management and Resource Mobilization Centre, Ministry of Local Development, Government of Nepal, Nepal**

Aug. 07 – Feb. 2009

Environment Officer (Research Consultant)

- **Research works:**
 - Greenhouse gas emissions rate analysis from Sisdol landfill site, Kathmandu, Nepal
 - Status of surface and ground water nearby Sisdol landfill site
 - Monitor the leachate treatment process and evaluate monthly reports
 - Waste minimization an alternative methods (Slaughter waste, Fuel briquette, Paper coal and Compact bio-gas)
- **Resource person:**
 - Prepare baseline data base documents on solid waste management in all municipalities of Nepal
 - Prepare and present workshop paper on solid waste management system in municipalities of Nepal for national/ regional level.
 - Prepare the questionnaires for baseline data collection and conduct in-house training

- **Co-ordinator:**
 - Co-ordinate the national/ regional workshops on solid waste management system in municipalities of Nepal
 - Conduct training for researcher and evaluate the individual reports of municipalities.
- **Member:**
 - Serve as an IEE approval committee member at Ministry of Local Development
 - Prepare the Term of reference for EIA/IEE
- ❖ **Oriental Consultants Company Limited (Japan) and Nepal Development Research Institute (NDRI), (TCSP /ADB), Nepal** *Feb – Sept. 2005*
Environmental Officer: Improvement and Upgrading of Road Program (EIA/IEE)
 - Involved on ‘Improvement and Upgrading of Road Program’ for preparation of questionnaires, field survey, EIA and IEE reports of Galchhi-Dhunchhe -Syaprobesei, Ramechhap-Manthali-Khurkot and Phidim-Taplejung roads for final approval from ADB.
- ❖ **GEF/SGP, UNDP-Nepal / Integrated Development Society –Nepal** *Nov. 2003 – Jan.2005*
Environmental Officer: Bio-Briquette Promotion/Water Quality Program
 - **Program Coordinator:**
 - *Bio-Briquette Promotion Program:* Achieving goal of UNDP: Global Climate Change and Biodiversity Conservation. (UNDP placed it was a most successful projects in Nepal, through local people mobilization and resources utilization by transforming technical knowledge and skills to local community).
 - **Researcher:**
 - *Water Quality Program:* An impact assessment on ground water quality of Gokarna landfills area, Kathmandu, Nepal
 - Analysis of the river water quality of Bishnumati River where solid waste were dumpling nearby the river banks, Kathmandu, Nepal
 - **Resource Person:**
 - Involved on baseline survey ‘Environment, Health and Sanitation Program’ of three districts (Tanahun, Chitwan and Nawalparasi), to identify the status of environmental awareness; conduct health and sanitation survey among the school children and nearby communities. Joint programme with Nepal Red Cross Society
- ❖ **Solid Waste Management and Resource Mobilization Centre, Ministry of Local Development, Nepal** *Sept - Nov. 2003*
Environmental Officer
 - Municipal Solid Waste Management Program’ for collection of background information on solid waste management for preparation of diagnostic report of municipalities.
 - *Training on Diagnostic Report Preparation of Solid Waste Management:* Organized by Solid Waste Management and Resource Mobilization Centre, Ministry of Local Development, Nepal

Independent Consultant

Environment Specialist:

- Initial Environmental Examination (IEE) field study report of land fill site for managing solid waste of Bhimeswor, Kamalamai, Putalibazaar, Bharatpur, Illam, Gulyria Municipalities (city councils), Nepal in 2008-2009.
- Prepare Initial Environmental Examination (IEE) study report for Collection and Export of Boulder, Gravel, Sand from Rivers of Syangja, Gulmi, Dhankuta, Newakot and Udhyapur Districts in 2010.
- K.J Builder's Apartment Housing Project, Kathmandu Metropolitan City, Kathmandu 2009

Environment Specialist: Prepare EIA study report of

- Shaurya Cements Limited, Udhyapur
- Surya Nepal Pvt. Ltd., Bara

Publication

Research articles in peer review journal:

- **Rohini Prasad Devkota**, Tek Narayan Maraseni, Geoff Cockfield, Perceived Flood Adaptation Strategies in Changing Climate (**Submitted**)
- **Rohini Prasad Devkota**, Tek Narayan Maraseni, Geoff Cockfield, Willingness to pay for Climate Change Induced Flood Mitigation in Nepal (**Submitted**)
- **Rohini Prasad Devkota**, Tek Narayan Maraseni, Geoff Cockfield, and Laxmi Prasad Devkota, 'Climate change induced flooding in Nepal and indigenous knowledge for flood adaptation' *The International Journal of Climate Change: Impacts and Responses*, (**in press**)
- **Rohini Prasad Devkota**, Tek Narayan Maraseni, Geoff Cockfield and Laxmi Prasad Devkota, 'Flood Vulnerability through the Eyes of Vulnerable People in Mid-Western Terai of Nepal', *Journal of Earth Science and Climate Change*, Vol. 4, No. 1, (2013), Page: 1-7.
- **Rohini Prasad Devkota**, Geoff Cockfield and Tek Narayan Maraseni, 'Perceived Community-based Flood Adaptation Strategies under Climate Change in Nepal' *International Journal of Global Warming* Vol.5, No 4. Page 1-12, (2013).
- **Rohini Prasad Devkota**, Babina Bahracharya, Tek Narayan Maraseni, Geoff Cockfield and Bidur Prasad Upadhyay, The perception of Nepal's Tharu community in regard to climate change and its impacts on their livelihoods, *International Journal of Environmental Studies*, Vol. 68, No. 6 (2011), Page 937-946
- Suman Aryal, Dilli Bhattarai and **Rohini Prasad Devkota**, Comparison of carbon stocks between mixed and pine-dominated forest stands within the Gwalinidaha Community Forest in Lalitpur District, Nepal, *Small-scale Forestry Journal*, (2013) :DOI 10.1007/s11842-013-9236-4
- **Rohini Prasad Devkota**, Assessment of Gases Emission from the Operation of the Semi-aerobic Landfill Site by Solid Waste of Kathmandu Valley, *Environmental Research Journal*, Vol. 6, No. 3, (2012), Page: 182-186.
- **Rohini Prasad Devkota**, A Current Status of Solid Waste Management in Nepal, *Enviro-Zin*, Central Department of Environmental Science, Tribhuvan University, Vol. 1, No. 1, (2010), Page: 12-16
- **Rohini Prasad Devkota**, A Concept on Solid Waste Management in Federal Republic of Nepal, *Infrastructure* , Vol. 1, No. 1, (2009), Page: 42-48

Conference/Research paper:

- Application and relevance of indigenous knowledge for flood management under climate change, *2nd International Conference on Earth Science & Climate Change*, July 22-24, 2013, Las Vegas, USA.
- Community- based flood adaptation strategies under climate change in Nepal, *NCCARF Climate Adaptation 2013 knowledge +partnerships conference* from 25- 27 June, 2013, Sydney, Australia.
- Perceived flood adaptation strategies at West Rapti River Basin in Nepal, 2013 HDR Expo, The Faculty of Business and Law and the Australian Centre for Sustainable Business and Development, University of Southern Queensland, Toowoomba, Queensland, 4350, Australia.
- Flood adaptation strategies under climate change in Western Terai of Nepal, Australian Centre for Sustainable Catchments 3rd Annual Postgraduate Seminar, University of Southern Queensland, Toowoomba, Queensland, 4350, Australia, November, 2012.
- Impacts of climate change on agricultural income and land inequality in West Rapti River Basin in Nepal, *Third International Conference on Addressing Climate Change for Sustainable Development through Up-Scaling Renewable Energy Technologies (RETRUD-011)*, Kathmandu, Nepal, from October 12-14, 2011.
- Assessment of gases emission from the operation of the semi aerobic landfill site by solid waste of Kathmandu valley, Australian Centre for Sustainable Catchments 2nd Annual Postgraduate Seminar, University of Southern Queensland, Toowoomba, Queensland, 4350, Australia November, 2011.

Articles in Nepalese National Daily Newspapers and magazines:

I have published more than three dozen environmental related articles in Nepalese National Daily Newspapers and magazines.

Book

- Greenhouse Gas Emissions from Eco-technological Wastewater Treatment Systems, *Lap Lambert Academic Publishing*, 2011, ISBN-13: 978-3-8433-7961-8.

Reviewer

- I reviewed more than 10 international journal articles and affiliated with three international publishing groups.

Computer skills

Ms-offices: Ms-word, Ms-excel, Power point, SPSS, Environmental Modeling

Visited countries:

The Netherlands, United Kingdom, Belgium, France, Germany, Luxembourg, Italy, China, India
