LIST OF PUBLICATIONS (Dr. GCS Negi)

International Journals

- 1. Singh, S.P., Y.S. Rawat, B.S. Rana & G.C.S. Negi, 1990. Effects of unusually large seed crop on litterfall and nitrogen retranslocation in Himalayan oaks. Forest Ecology & Management 32:79-86.
- 2. Singh, S.P., P.K. Ralhan, V.P. Upadhyay & G.C.S. Negi, 1990. Seasonal changes in stem diameter and leaf development in a tropical montane forest. **Journal of Vegetation Science** 1:165-172.
- 3. Ralhan, P.K., G.C.S. Negi & S.P. Singh, 1991. Structure and functioning of the agroforestry system in the Pithoragarh district of Central Himalaya: an ecological viewpoint. Agriculture, Ecosystems & Environment 35:283-296.
- 4. **Negi, G.C.S.** & S.P. Singh, 1992. Leaf growth pattern in evergreen and deciduous tree species of the Central Himalaya, India. **International Journal of Biometeorology** 36:233-242.
- 5. **Negi, G.C.S.**, H.C. Rikhari & S.P. Singh, 1992. Phenological features in relation to growth form and biomass accumulation in an alpine meadow of the Central Himalaya. **Vegetatio** 101: 161-170.
- 6. Rikhari, H.C., G.C.S. Negi, B.S. Rana & S.P. Singh, 1992. Phytomass and primary productivity in several communities of a Central Himalayan alpine meadow, India. Arctic & Alpine Research 24:344-351.
- 7. **Negi, G.C.S.** & S.P. Singh, 1993. Leaf nitrogen dynamics with particular reference to retranslocation in evergreen and deciduous tree species of Kumaun Himalaya. **Canadian Journal of Forest Research** 23:349-357.
- 8. **Negi, G.C.S.,** H.C. Rikhari & S.P. Singh, 1993. Plant regrowth following selective horse and sheep grazing and clipping in an Indian Central Himalaya alpine meadow. **Arctic and Alpine Research** 25 (3):211-215.
- 9. **Negi, G.C.S.**, H.C. Rikhari, Jeet Ram & S.P. Singh, 1993. Foraging niche characteristics of horses, sheep and goats in an alpine meadow of the Central Himalaya. **Journal of Applied Ecology** 30:383-394.
- 10. Rikhari, H.C., G.C.S. Negi, Jeet Ram & S.P. Singh, 1993. Human induced secondary succession in an Indian Central Himalayan alpine meadow. Arctic & Alpine Research 25 (2):8-14.
- 11. **Negi, G.C.S.** 1994. High yielding vs traditional crop varieties: A socio-agronomic study in a Himalayan village in India. **Mountain Research and Development** 14(3):251-254.
- 12. Dhaila, S., S.P. Singh, **G.C.S. Negi** & Y.S. Rawat, 1995. Shoot growth phenology of coexisting deciduous and evergreen species in oak forest of Himalaya. **Ecological Research** 10:151-159.
- 13. **Negi, G.C.S**. 1996. Phenology, leaf and twig growth pattern and leaf nitrogen dynamics of some multipurpose tree species of Himalaya: Implications towards agroforestry practice. **Journal of Sustainable Agriculture** 6(4):43-60.
- 14. Negi, A.S., **G.C.S. Negi** & S.P.Singh, 1996. Establishment and growth of *Quercus floribunda* seedlings after a mast year. **Journal of Vegetation Science** 7:559-564.
- 15. **Negi, G.C.S.** & V. Joshi, 1996. Land use in a Himalayan catchment under stress: system responses. **AMBIO** 25 (2): 126-128.
- 16. **Negi, G.C.S.,** H.C. Rikhari & S.C. Garkoti, 1998. The hydrology of three high-altitude forests in Central Himalaya, India: A reconnaissance study. **Hydrological Processes** 11: 343-350.
- 17. **Negi, G.C.S.** & V. Joshi, 2000. Water management and sustainability of agriculture in the Himalayan mountains: An overview. **ILIEA (LEISA India)** 2 (1): 12-13.

- 18. **Negi, G.C.S.** 2001. The need for micro-scale and meso-scale hydrological research in the Himalayan mountains. **Environmental Conservation** 28 (2): 95-98.
- 19. **Negi, G.C.S.** & V. Joshi, 2001. Agroforestry trees restore degraded land in the Himalayan mountains. **Agroforestry Today** 13 (1-2): 19-21.
- 20. Joshi V., Naithani, A.K. & G.C.S. Negi, 2001. Study of Landslides in Mandakini River Valley, Garhwal-Himalaya, India. GAIA 16:87-95.
- 21. **Negi, G.C.S**. & V. Joshi, 2002. Drinking water issues and hydrology of springs in a mountain watershed in Indian Himalaya. **Mountain Research & Development** 22 (1): 28-31.
- 22. Critchley, W.R.S., M. Brommer & G.C.S. Negi, 2003. Mahender Rautela: Water volunteer. ILIEA 19 (3): 23-24.
- 23. **Negi, G.C.S.** & V. Joshi, 2004. Rainfall and spring discharge patterns and relationships in two small catchments in the western Himalayan mountains, India. **The Environmentalist** 24 (1): 19-28.
- 24. **Negi, G.C.S**. 2006. Leaf and bud demography and shoot growth in evergreen and deciduous trees of central Himalaya, India. **Trees: Structure & Function 20:416-429**.
- 25. Bisht, Vimla, **G.C.S. Negi** & G.C. Joshi, 2007. Changing pattern of the flora vis-à-vis tea cultivation in Uttaranchal. **International Journal of Tea Science** 6 (3):15-21.
- 26. Pramod Kumar, Madhuri Pant & GCS Negi, 2009. Soil physico-chemical properties and crop yield improvement following Lantana mulching and reduced tillage in rainfed croplands in the Indian Himalayan mountains. **Journal of Sustainable Agriculture** 33 (6):636-657.
- 27. Singh, N., L.S. Lodhiyal, R.C. Sundriyal & G.C.S. Negi, 2009. Tree layer characteristics and regeneration pattern of Central Himalayan forests in relation to catchment area. New York Science Journal 2 (4): 42-45.
- 28. Carla Restrepo, L.R. Walker, A.B. Shields, R. Bussman, L. Claessens, S. Fisch, P. Lozano, G.C.S. Negi, 1. Paolini, G. Poveda, C. Ramos-Scharron, M. Richter & E. Velazquez. 2009. Landsliding and its multi-scale influence on mountainscapes. **Bioscience** 59 (8): 685-698.
- 29. **Negi, G.C.S.** & R.L. Semwal. 2010. Valuing the services provided by forests and agroecosystems in the Central Himalaya. **Mountain Forum Bulletin** 10 (1): 44-47.
- 30. Panwar, S., D.K. Agrawal, **G.C.S. Negi,** K.S. Kanwal, V. Sharma, M.S. Lodhi, J. Singh, & V. Bhatt. 2010. Impact assessment of a hydro-electric project on the flora in the western Himalayan region based on vegetation analysis and socio-economic studies. **Journal of Environmental Planning & Management** 53 (7): 907-923.
- 31. Joshi, G. & G.C.S. Negi. 2011. Quantification and valuation of forest ecosystem services in the western Himalayan region, India. **International Journal of Biodiversity Science, Ecosystem Services & Management** 7 (1): 2-11 (DOI: 10.1080/21513732.2011.598134).

National Journals

- 32. Yadav, S. & G.C.S. Negi, 1985. Shoot growth phenology of Maiden hair tree (*Ginkgo biloba*). Environment & Ecology 3:463-464.
- 33. **Negi, G.C.S.,** B.S. Rana, Y.D. Bhatt & H.C. Rikhari, 1992. Survival and growth of tree seedlings in certain village lands of Naini Tal. **Journal of Tree Science** 11(2):131-134.
- 34. **Negi, G.C.S.,** H.C. Rikhari & S.P. Singh, 1993. Height growth response of certain alpine meadow species to Clipping and grazing. **Range Management & Agroforestry** 14(2):93-101.
- 35. Singh, S.P., H.C.Rikhari & G.C.S. Negi, 1995. Community patterns in an alpine meadow of Indian Central Himalaya. Journal of Indian Botanical Society 74 A: 529-538.
- 36. **Negi, G.C.S.** & V. Joshi, 1996. Geohydrology of springs in a mountain watershed: The need for problem solving research. **Current Science** 71 (10): 772-776.
- 37. **Sohani, S.**K., V. Joshi, G.C.S. Negi & J.K.Rawat, 1997. Various collapsible frames of solar-warmer-cum-nursery plant protector. **Indian Forester** 123 (1): 26-31.

- 38. **Negi, G.C.S.**, K. Kumar, V. Joshi, Y.S. Panda & G.S. Satyal, 2001. Water yield and water quality of some aquifers in the Himalayan mountains. **International Journal of Ecology & Environmental Sciences** 27: 55-59.
- 39. Joshi, V. & **G.C.S. Negi,** 2001. Rainfall characteristics, overland flow and soil erosion under three vegetation types in the Himalayan mountains of India. **Hydrology Journal** 25 (20): 55-63
- 40. **Negi, G.C.S**, 2002. Hydrological research in the Indian Himalayan mountains: soil and water conservation. **Current Science** 83 (8):974-980.
- 41. **Negi, G.C.S.** 2003. Traditional methods of water management in the Central Himalayan agriculture. **Indian Journal of Traditional Knowledge** 2 (3): 256-264.
- 42. Kandpal, K.D. & G.C.S. Negi, 2003. Studies on leaf litter decomposition rate for rain-fed crop soil fertility management in the western Himalayas. Journal of Hill Research 16 (1): 35-38.
- 43. Bhatt, V.P. & G.C.S. Negi, 2006. Ethnomedicinal plant resources of Jaunsari tribe of Garhwal Himalaya, Uttaranchal. Indian Journal of Traditional Knowledge 5 (3): 331-335.
- 44. **Negi, G.C.S.** & D.K. Agrawal. 2006. Measuring and valuing ecosystem services: Himalayan mountain context (A report on brain storming session organized by the first author). **Current Science** 91 (5): 573-575.
- 45. Kumar, P., M. Pant, **G.C.S. Negi** & P.C. Joshi, 2009. Influence of leaf litter quality on rate of decomposition, nutrient release pattern, soil microbial biomass and nitrogen mineralization in Central Himalayan rainfed cropfields. **Journal of Environment Bioscience** 23 (1): 19-27.
- 46. Bagwari, H.K., **G.C.S. Negi** & N.P. Todaria. 2010. Characterization of Rawanganga watershed in Garhwal Himalaya. **Indian Journal of Soil Conservation** 38 (1): 37-41.
- 47. Bagwari, H.K., **G.C.S. Negi** & N.P. Todaria. 2010. Biomass production of forests in Rawanganga watershed in Garhwal Himalaya. **Indian Journal of Forestry** 33 (1): 55-62.
- 48. **Negi, G.C.S.**, P.K. Samal, J.C. Kuniyal, B.P. Kothyari, R.K. Sharma & P.P. Dhyani. 2011. Impact of climate change on the western Himalayan mountain ecosystems: An overview. **Tropical Ecology** (Special Volume on Mountain Ecology) 53 (3): (In Press).

Research Projects Undertaken:

- 1. Ecology of reduced tillage and mulching in the Central Himalayan mountains **Phase I & II** (Funded by D.S.T., Govt. of India, New Delhi)- **Principal Investigator.**
- 2. Demonstration of a silvi-pasture model for wasteland restoration in the western Himalaya (Funded by Ministry of Rural Development, GOI, New Delhi)- **Principal Investigator.**
- **3.** Performance and adaptability analysis of sloping watershed environmental engineering technology (SWEET) in the hills of Kumaun Himalayas (Funded by Ministry of Rural Development, Govt. of India, New Delhi)- **Co-Investigator.**
- **4.** Global change impact assessment for Himalayan mountain region for environmental management and sustainable development (A joint project with Nepal and Pakistan, funded by Asia Pacific Network, Japan)- **Co-Investigator**
- **5.** Environmental hazard zonations and resource-use pattern in Alaknanda valley using RS and GIS (A collaborative project with Space Application Centre, Ahmedabad) funded by MoEF, New Delhi- **Co-Investigator.**
- **6.** Geohydrological studies for augmentation of spring discharge in western Himalaya. (Funded by Ministry of Water Resources, Govt. of India, New Delhi). **Principal Investigator.**
- 7. Creating interest and curiosity through organization of science motivation programme for high school students (Funded by DST-NCSTE, New Delhi)- Co-Investigator.
- 8. EIA/EMP studies of Rupin hydro-electric project- SPML, New Delhi- Co-Investigator.

- 9. Environmental and social impacts of hydropower projects in Ganga River basin (between Dharasu and Gangotri) in Uttarakhnad (Funded by MoEF, New Delhi)- **Principal Investigator.**
- **10.** EIA/EMP studies of Nandprayag-Langasu and Tamak-Lata hydro-power projects in Uttarakhand (Funded by UJVNL, Dehra Dun). **Principal Investigator.**
- **11.** Kailash Sacred Landscape Conservation Initiative (Rapid study on tourism in Pithoragrah Distt.) Funded by ICIMOD, Nepal (**Co-Investigator**).
- **12.** Indicators of climate change in the context of Himalayan ecosystems along an altitudinal gradient (Funded by DST, Govt. of India, New Delhi)- **Principal Investigator**.
- **13.** Inventorization and monitoring of biosphere reserves in India using remote sensing and GIS technology (Funded by MoEF, Govt. of India, New Delhi)- **Co-Investigator**
- **14.** Assessment and quantification of forest ecosystem services with special emphasis on pollination in the Indian Himalayan agro-ecosystems (Funded by Earthwatch Institute, India & UK) **Co-Investigator**

Training Manuals/ Folders Developed:

- 1. Community Training Manual on Village Environment Action Plan for SWAJAL Project.
- 2. Spring Sanctuary Development in the mountains.
- 3. Rain Water Harvesting for Irrigation and Domestic Use Guidelines. Submitted to Ministry of Environment & Forests, Govt. of India, New Delhi.
- 4. Environmental and Social Management Framework. Guidelines prepared for Uttaranchal Decentralized Watershed Development Project, Govt. of Uttaranchal.
- 5. R. Semwal, A. Tewari, **G.C.S. Negi**, R. Thadani, P. Phartiyal (Editors & Research Contributors), M. Verma, S. Joshi, G. Godbole & A. Singh (Research Contributors). 2007. Valuation of Ecosystem Services and Forest Governance: A Scoping Study from Uttarakhand. Document Published by Leadership in Environment & Development, LEAD-India, New Delhi. 125 p.

Ph. D. Thesis Supervised:

- 1. Organic matter decomposition and its effect on available nitrogen, phosphorus and potassium in mountain cropfield soil. HNB Garhwal University, Srinagar (Co-Supervisor) (2002).
- 2. Resource dynamics in a Himalayan watershed and implication for sustainable development. HNB Garhwal University, Srinagar (Co-Supervisor) (2003).
- 3. Effect of reduced tillage tillage and *Lantana* mulching on soil microbial processes, soil fertility and crop yield in the central Himalayan mountains. Gurukula Kangri Vishwavidyalaya, Haridwar (Co-Supervisor) (2008).
- 4. A comparative geohydrological study of some springs in Garhwal Himalaya. HNB Garhwal University, Srinagar-Garhwal (Co-Supervisor) (2008).
- 5. Role of soil macrofauna in organic matter decomposition in relation to soil fertility in district Almora. Gurukula Kangri Vishwavidyalaya, Haridwar (Co-Supervisor) (2009).

Master's Thesis supervised:

- 1. Unlocking the flow of indigenous water knowledge in the Himalayas. Masters Thesis, Free University, Amesterdam, The Netherlands (Co-Supervisor).
- 2. Land and water resources management practices in a Himalayan watershed. Masters Thesis, Ecole Nationale du Genie Rural des Eaux et des Forets, Nancy, France (Co-Supervisor).
- 3. Fuelwood and fodder consumption in three villages of Alaknanda valley, Chamoli-Garhwal. Masters Thesis, HNB Garhwal University, Srinagar-Garhwal (Supervisor).

- 4. Plantation management in a Himalayan village: Issues, opportunities and constraints, P.G. Diploma Internship in Plantation Technology, Forest Research Institute (ICFRE), Dehra Dun. 2008 (Supervisor).
- 5. Status of Land, Vegetation and Water Resources in Bhimtal Lake Catchment: A Growing Township in Uttarakhand. Allahabad University (2009) (Supervisor)
- 6. Impacts of Hydro-electric Power Projects in Bhagirathi Valley (Ganga Basin), Uttarakhand (Gurukula Kangri Vishwavidyalaya, Haridwar) (2010) (Supervisor)
- 7. Forest ecosystem services in buffer zone villages in Nanda Devi Biosphere Reserve: Quantification and Valuation (G.B. pant University of Agriculture & Technology, Pantnagar) (2011) (Supervisor)

Consultancy Assignments:

- 1. Development of Village Environment Action Plan (SWAJAL Project, U.P. Govt.)
- 2. Ecological and Economic Impact Assessment of Diversified Agriculture Support Programme in selected villages of Uttaranchal.
- 3. Worked as a Consultant Scientist with Appropriate Technology International, U.S.A. on natural resources management in the Garhwal Himalaya.
- 4. Landscaping and restoration plan for Dhauli Ganga hydro-electric project. National Hydro-Power Corporation, Dharchula, Pithoragarh.
- 5. Rapid EIA and formulation of environmental management plan for Lakhwar-Vyasi hydroelectric project. NHPC, Dehra Dun.
- 6. Enhancing Livelihood Through Participatory Watershed Development in four watersheds of Distt. Almora (U.A.), India
- 7. EIA/EMP studies on hydroelectric projects in river Rupin (Distt. Uttarkashi; UA).
- 8. Valuation of Ecosystem Services in Uttarakhand, LEAD India, New Delhi.
- 9. Course content on the topic "Forest Based Livelihood (Unit-I; Block-II)", under the *Leadership Programme on Himalayan Ecosystems* was written for IGNOU, New Delhi (online publ. on IGNOU website: www. Ignouonline.ac.in/save).

Awards/Honours:

- 1. Selected leadership in environment & development (**LEAD**) Fellow Cohort 12
- 2. Awarded "Visiting Fellowship" by The Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, India (Not availed).
- 3. Member, **Scientific Advisory Committee** for the 6th Biennial Conference of the Indian Society for Ecological Economics on "Nature, Economy and Society: Understanding the Linkages", to be held in October, 2011.
- 4. Member, **Technical Advisory Committee** for a project, "Environmental Restoration and Environmental Conservation in Hill Villages of Kumaun Himalayas" executed by Institute of Himalayan Environmental Research and Education, Masi-Almora and India Canada Environment Facility, New Delhi.
- 5. Awarded honorary member to the **Research Board of Advisors** of The American Biographical Institute, U.S.A.

Membership of the Professional /Academic Societies:

- 1) Indian Association of Soil and Water Conservationists, Dehra Dun
- 2) People's Association for Hill Area Research, Naini Tal
- 3) Central Himalayan Environment Association, Naini Tal
- 4) Sikkim Science Society, Sikkim

- 5) Commonwealth Forestry Association (India Unit), New Delhi
- 6) U.P. Association for the Science and Technology Advancement, Lucknow
- 7) National Institute of Ecology, New Delhi
- 8) Mountain Action Research Group, Naini Tal
- 9) Indian Association of Hydrologists, Roorkee
- 10) Indian Association of Tree Scientists, Solan (H.P.)
- 11) Society for Plant Physiology & Biochemistry
- 12) Indian Society for Ecological Economics