

Prof S S Singh

Chair, Department of Forestry, Wildlife
& Environmental Sciences
Dean, School of Natural Resources
Guru Ghasidas University
(A Central University)
Bilaspur, Chhattisgarh, India

e-mail: sssingh_ggu@rediffmail.com

Mob: +91-942416326 (Personal)

Tel: +91-7752-260078 (O)

Qualifications:

1986	D.Phil.	H N B Garhwal University, Srinagar, Uttrakhand, India
1980	M.Sc.	H N B Garhwal University, Srinagar, Uttrakhand, India
1978	B.Sc.	H N B Garhwal University, Srinagar, Uttrakhand, India

Area of Specialization: Forest Tree Improvement & Tree Mutagenesis, Watershed management

Total No. of M.Sc. dissertation supervised : **80**

Total No. of D.Phil. /Ph.D. awarded under supervision : **07**

National Seminar/Conferences organized as Convener : **05**

Research Paper presented in National/International Seminar/Conference/Workshop
: **22**

Invited lecture/chair during National/International Seminar/Conference/Workshop
: **15**

Research projects:

1. Major project: **Assessment of Air Pollutants and its Impact on Tropical Forest of Northern Chhattisgarh**, Funding agency: Ministry of Environment & Forest (MoEF), New Delhi, Amount: Rs. 57.19 Lakhs. (Sanctioned, 2012)
2. Mini project: **Watershed Management of Arpa River Basin Area through Remote Sensing & GIS**, Funding agency: Chhattisgarh Council of Science & Technology (CCOST), Chhattisgarh, Amount: Rs. 2.00 Lakhs. (Completed, 2010)

Administrative Experiences:

1. **Dean**, Faculty of Natural Resources, Guru Ghasidas University, Bilaspur (September 2012-Continue).

2. **Head**, Department of Forestry, Wildlife & Environmental Sciences, Guru Ghasidas University, Bilaspur (September 2004 –Continue).
3. **Chief Warden**, Guru Ghasidas University, Bilaspur (August 2009- Continue)
4. **Chairman**, Consultant Evaluation Committee & Consultant Monitoring Committee GGU, Bilaspur (February 2010- Continue)
5. **Convener**, University Garden Development Division, Guru Ghasidas University, Bilaspur (November 2004- Continue).
6. **Chairman**, Board of Studies, Forestry, Wildlife & Environmental Sciences, Guru Ghasidas University, Bilaspur (October 2004- Continue).
7. **Finance Officer**, Guru Ghasidas University, Bilaspur (August 2010- March 2011)
8. **Dean**, Faculty of Natural Resources, Guru Ghasidas University, Bilaspur (September 2005- September 2007).
9. **Head**, Department of Biotechnology, Guru Ghasidas University, Bilaspur (Dec 2, 2006- Jul 3, 2007).
10. **Planning and Evaluation Board Member**, Guru Ghasidas University, Bilaspur (November 2005- September 2007).
11. **Proctor** at HNB Garhwal University, Tehri campus, July 1990-August 1991.
12. **Asst. Dean Student Welfare** at HNB Garhwal University, Tehri Campus, Dec. 1992 – Jan 1996.
13. **Proctor** at HNB Garhwal University, Tehri Campus, July 2002- June 2003.
14. **Proctor** at HNB Garhwal University, Tehri Campus, July 2004- September 2004.
15. **Head**, Department of Botany, HNB Garhwal University, Badshagithaul, Tehri Garhwal (July 1986-September 2004).

Publications:

1. **Singh, Ajay K. and Singh, S S 2012.** Assessment of Forest Land Use/Land Cover Changes And Its Impact on Industrial Expansion in Lower Hasdeo Sub Watershed, Chhattisgarh, India. *Journal of Land Use Science* (Taylor & Francis). (Communicated).
2. **Singh, Ajay K. and Singh, S S 2012.** FLULC mapping and assessment of a typical sub watershed of Central India using IRS-P6 LISS 3 data. *J. Bio. & Env. Sci.*, 2(9): 26-32.
3. **Singh, Ajay K. and Singh, S S 2011.** The forest land use/land cover mapping through RS technique in Chornai sub watershed of Hasdeo river basin of Chhattisgarh, India. **In**

proceeding “Young Researchers 2011” of 12th International Conference for Ph.D. Students, Young Scientists and Pedagogues organized by Faculty of Natural Science, Constantine the Philosopher University in Nitra (Slovakia, Europe). ISBN: 978-80-8094-946-4. pp. 458-466.

4. **Singh, S S, Singh, Ajay K. and Vandana 2011.** Forest Type Variations and Catchment Status in the Bamni Sub Watershed of Hasdeo River Basin in Chhattisgarh, India. *J. Bio. & Eco. Sci.*, 1(1): 95-102.
5. **Singh, Ajay K. and Singh, S S 2011.** Forest Vegetation Analysis and Land Cover Assessment in Tan Sub Watershed of Hasdeo River Basin, Chhattisgarh, India. **In** proceeding of the FIG Working Week 2011, Bridging the Gap between Cultures, Marrakech, Morocco (Africa), 18-22 May 2011. pp. 1-11.
6. **Singh, Ajay K and S S Singh 2010.** Upper Hasdeo Sub Watershed Status in Hasdeo River Basin at Chhattisgarh, India. In Proceeding of the XXIV FIG International Congress 2010, Sydney, (Australia) from 11-16 April, 2010. Pp 1-6.
7. **Singh SS and Singh Ajay K 2009.** Variability and distribution in *Acacia*. “In Biodiversity to Biotechnology: IPR” (Eds. A. Jaiswal and G Das, NAROSA Publication), New Delhi. pp 250-262.
8. **Chauhan, P S and Singh, S S 2008.** Radiosensitivity of *Populus deltoids* middle aged clones (12 months) to gamma rays and its synergetic effects with Stik. *Ind. J. For.*, 31(3).
9. **Singh, S S and Vandana 2008.** Sensitivity of *Albizia julibrissin Durazz* Seeds to Gamma Rays. **In** proceeding of the FORTROP II: Tropical Forestry Change in a Changing World, 17-20 November 2008, Kasetsart University, Bangkok, Thailand. Pp 25-39.
10. **Chauhan, PS and Singh SS 2007.** Effect of Gamma rays and combination with Stik-500 ppm on *Populus deltoides*. *Ind. J. Trop. Biodiv.* 15 (1): 53-60.
11. **Singh, S S and Chauhan, P S 2007.** Sensitivity of *Populus deltoides* clones to gamma rays and its combination effects with Stik in dormant phase. *Chh. J. Sci. Tech.*, (3-4): 1-12.
12. **Chauhan, P S and Singh, S S 2007.** Sensitivity of *Populus deltoids* young age stem cuttings (6 months) and its synergistic effects with Kinetin. *Ind. J. Agrofor.*, 9(1): 47-52.
13. **Chauhan, P S and Singh, S S 2007.** Effects of gamma rays and its combination with STIK 500ppm on *Populus deltoids*. *Indian J. Trop. Biodiv.*, 15 (1): 53-60.
14. **Singh, SS, Kumar P and Rai A K. 2006.** Ultraviolet radiation stress: Molecular and Physiological adaptation in trees. In "Abiotic Stress Tolerance in Plants: Towards the improvement of Global Environment and Food" (Eds. A K Rai and T Takabe), Springer, Netherlands. Pp 91-110.

15. **Singh, S.S. and Vandana. 2005.** Radiosensitivity of *Albizia procera* seeds to gamma rays in germination and early seedling growth behaviour. *Chh. J. Sci Tech.*, Vol. 2: 173-182.
16. **Singh, S.S. and Sujata. 2004.** Effect of gamma rays on seed germination and seedling growth of *Robinia pseudoacacia*. *Ind. J. Agrofor.* 6(1): 33-38.
17. **Vandana and Singh, S.S. 2003.** Effect of gamma rays on growth and survival of *Albizia procera*. In Proc. XII National Symposium of Environment, June 2003 (Ed. V.Venkat Raj *et. al.*, BARC). pp. 362-367.
18. **Singh, S. S. and Paliwal, G. S. 1994.** Regeneration potential of *Populus deltoides* I. Influence of Stik on rooting and shoot growth. In co-memorable volume for Prof. Dalbeer Singh, Vistas in seed Biology (Eds. Tribhuwan Singh and P.C. Trivedi), pp. 322-331(Vol. II).
19. **Singh, S. S. 1992.** Sprouting and shoot growth behaviour in stem cuttings of *Leucaena leucocephala* I. Effect of IAA, GA3 and Niagara, *Leucaena Research Report* (USA) 10:30-31.
20. **Singh, S. S. 1992.** Rooting and regeneration potential of stem cuttings *Aerva sanguinolenta* Linn. As influenced by ethyl hydrogen-l-propylphosphonate (Niagara). *Acta Bot. Indica.* 20(2): 294-296.
21. **Singh, S. S. 1992.** Sensitivity of cotyledonary leaves of *Leucaena leucocephala* to gamma rays. *Leucaena Research Report*, USA 13:46-48.
22. **Singh, S.S. 1989.** Activation of dormant lenticels in *Populus deltoides* by ethyl hydrogen-I prophyphosphate and Stik. In proceeding of International Symposium on Agro- Forestry, Nov. 22-24, Havana, Cuba.
23. **Singh, S. S.1989.** Regeneration potential of *Populus deitoides-ll*. Influence of ethyl hydrogen I- prophylophosphonate (Niagara) on rooting and shoot growth. In proceeding of International Symposium on Agro- Forestry, November 22-24, Havana, Cuba.
24. **Sharma, B.N., Singh, S.S. and Paliwal, G.S. 1987.** Effects of Niagara and GA3 on fruits abscission and fruit growth of *Pyrus pashia*. *Indian J. For.* 19(3): 226-230.
25. **Singh, S.S. and Paliwal, G.S. 1987.** Sensitivity of *Albizzia lebbek* seeds to gamma rays. *Ind. For.* 113 (7): 490-500.
26. **Singh, S.S. and Paliwal, G.S. 1986.** Growth and germination sensitivity of *Leucaena leucocephala* to different continuous and fractionated doses of gamma rays. *Leucaena Research Report*, USA (7):68-69.
27. **Singh, S.S. and Paliwal, G.S. 1986.** Influences of ethyl hydrogen-1-propylphosphonate (Niagara) on seed germination and early seedling growth of *Leucaena leucocephala*,

Leucaena Research Report, USA (7): 70-71.

28. **Paliwal, D.P., Singh, S.S., Thapar, H.S. and Paliwal, G.S. 1986.** Effect of sowing orientation on germination of pine seeds. *Curr. Sci.* 55(8): 415-419.
29. **Singh, S.S. and Paliwal, G.S. 1986.** Some aspects and prospects of plants conservation in Garhwal GA3 in the stem cuttings of *Albizia lebbek* Benth. *J. Tree Sci.* 4(2):3-58.
30. **Singh S.S., Sharma, B.N. and Paliwal, G.S. 1985.** Influence of Niagara and GA3 on seed germination seedling growth and cotyledonary expansion of *Acacia catechu*. *Indian J. Forestry* 8(1): 41-46.
31. **Singh, S.S. and Paliwal, G.S. 1985.** Effect of Stik on rooting and regeneration of stem cutting of *Aerva sanguinolenta* L. *Curr. Sci.* 54(18): 920-923.
32. **Singh, S.S. and Paliwal, G.S. 1985.** Influence of ethyl hydrogen-1-prohylphosphate (Niagara), IAA and GA3 on the lenticles of *Leucaena leucocephala* (Lam) de Witt. *Acta Bot. Indica*, 13(2):228-232.
33. **Singh, S.S. and Paliwal, G.S. 1985.** Induction of the lenticel meristem as influenced by Niagara, IAA and PP. 679-683, Nainital.
34. **Singh, S.S. and Paliwal, G.S. 1985.** Induction of the Lenticel Meristem as influenced by Niagara, IAA and GA3 in the stem cuttings of *Albizia lebbeck* Benth. **J. Tree Sci.**, 4(2): 53-58.
35. **Singh, S.S. and Paliwal, G.S. 1982.** Vegetation multiplication: A tool for conservation and utilization of tree gene resources of Himalayas. *JOHSARD* 5-6:59-65.
36. **Singh, S.S. and Paliwal, G.S. 1982.** Effect of Niagara on sprouting and shoot growth of *Populus deltodes* . Bartr. Ex. March. *Acta Bot. Indica.* 12(22): 90-93.
37. **Paliwal, G.S. and Singh S.S. 1981.** Importance of basic researches in Botany on the growth and development of rural economy in Garhwal Himalayas. *J. Indian Bot. Soc.* 60: XIV-XVI.