

Curriculum Vitae

Name : **PROFESSOR JASWANT SINGH**

Father's Name : Late Shri Karam Chand

Date of Birth : 8th July, 1961

Nationality : Indian

Postal Address: Dr. Jaswant Singh, **Professor and Head**
Department of Environmental Sciences,
Director- Institute of Earth Sciences
Dr. R. M. L. Avadh University,
Faizabad (Ayodhya)-224001, U.P., India.

Residence Address : Dr. Jaswant Singh
H.No.005 Sector-B2,
Sushant Golf City, Shaheed Path, Lucknow , U.P.

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Educational Qualifications : M.Sc., Ph.D.

Field of Specialization: Environmental Pollution and Management, Polar Ecology.

Positions Held:

Junior and Senior Research Fellow: July 1984-1987, National Botanical Research Institute, Lucknow, U.P.

Post Doctoral: July, 1988-November, 1991, Ecotoxicology Division, Industrial Toxicology Research Center, Lucknow. U.P.

Scientist Fellow: November,1991-October,1994, Ecotoxicology Division, I.T.R.C.

Pool Officer: Ist November,1994-29th October, Ecotoxicology Division, Industrial Toxicology Research Center, Lucknow, U.P.

Assistant Professor: 30th December 1994, Department of Environmental Sciences, Dr. RML Avadh University, Faizabad-224001, U.P.

Professor: 30th December 2009 to till date.

Participated in the 22nd and 24th Indian Scientific Expedition to Antarctica, and Indian Scientific Expedition to Arctic (North Pole) (2018), Ministry of Earth Sciences, Govt. Of India, New Delhi.

Selected as Member of task force for the “Third Indian Station at Antarctica” Bharti, at Larsemann Hills, Antarctica.

Establishing “**Advance Centre of Antarctica and Environmental Research**” at Dr. RML Avadh University with the financial support of Rs.1.0 Crore form RUSA.

Expert Member-District level Environmental Impact Assessment Authority (DEIAA), nominated by district authorities, Faizabad, Uttar Pradesh.

Experience: Twenty seven years of teaching to postgraduate students and 30 years of research

Research Projects: Completed 10 major projects as Principal Investigator funded from agencies like AICTE, CSIR, MoEF&CC, MoES, NCAOR, UPCST, World Bank, UGC, New Delhi.

Country Visited: Germany, Switzerland, South Africa, United Kingdom, Dubai, Norway.

Research Publication: Published 90 Research publications in national and international Journals of repute; Book Chapters-19; Review articles-07; Conference/Seminar attended-60.

Edited books :

1. Natural Resource Management & Conservation (2003), Kalyani Publishers, N. Delhi.
2. Antarctica: The Most Interactive-Ice-Air-Ocean Environment (2011) by Jaswant Singh and H.N. Dutta, (Eds.), Nova Science Publishers. Inc., N.Y., USA.
3. **Antarctica Abhiyan** (2011) in Hindi by H.N. Dutta and Jaswant Singh, Suhani Publication, New Delhi.
4. **Conservation of Environment for Human Health** (2013). Edited by Qasim, S.Z., Ahmad, J., Khare, N., Wanganeo, A., Jaswant Singh, Ahmad, A. National Environmental Science Academy, N. Delhi.

Research Guidance: Fifteen students have been awarded Ph.D. degree and two students are pursuing Ph.D. research program under my supervision.

Membership or Fellowship of Professional/Academic Bodies

1. Academy of Environmental Biology, Life Membership No.316
2. Ethnobotanists
3. Association of Microbiologists of India, Life Membership No. 2443-199
4. Indian Net Work for Soil Contamination Research
5. National Environmental Science Academy, Life Membership No.1315
6. The Society for Science of Climate Change and Sustainable Environment (SSCE). S.No. 011.
7. Society of Toxicology, India. Life Membership No.979-L
8. Prof. H.S. Srivastava foundation for Science and Society, Lucknow.
9. Association for Plant Taxonomy, LM (SP)/451/10/2011

Awards :

- Acharya Narendra Dev Samman for significant contribution in Science (2003),
- ASEA Toxicology Award (2007),
- Fellow of the Academy Environmental Biology (2007).
- Scientist of the Year Award (2014) By NESAs, New Delhi.
- Faizabad Ratan Samman -for the significant contribution in field of Science (2017).
- Certificate of Appreciation in Academics by Dr.RML Avadh University, Faizabad (2018).
- ICN Award for the Outstanding Contribution in the field of Science Journalism, (2018).

**Attended Training Courses, Teaching-Learning-Evaluation Technology Programmes,
Faculty Development Programme:**

S. No.	Programme	Duration	Organized by
1	Attended Risk Assessment Summer School , At the Manor of Groves, United Kingdom.	27th. Aug-4th Sept. 1994.	The International Union of Toxicology.
2	Attended Orientation Course .	June 26-July 22, 2000.	Lucknow University, Lucknow.
3	Attended Refresher course in Environmental Sciences ,	Feb.25 to March 22, 2002.	Jawaharlal Nehru University, N. Delhi.
4	Attended Refresher course in Environmental Sciences .	Nov.15 to Dec.05, 2003.	Gurukul Kangri Vishavidyalaya, Hardwar.
5	Attended Advanced EMS Auditing course .	13-17 th April 2009,	Bureau of Indian Standards, Noida.
6	Attended “Management and Leadership Development Training Course” .	12 th -16 th September, 2011.	National Institute of Administrative Research LBS National Academy of Administration, Mussoorie.
7	Attended “Professional Development Training” for Members of Board Of Governors.	19-20 November, 2018	Indian Institute of Management, Udaipur

Following Seminar/conferences organized by me, as an Organizing Secretary at Dr. RML Avadh University, Ayodhya (Faizabad):

- (1) National Environmental Awareness Campaign (2002):** Organized on dated 21.1.2002 in collaboration with Shohratgarh Environmental Society, at Dr. RML. Avadh University, Faizabad. Financial assistance provided by Ministry of Environment and Forests, New Delhi.
- (2) National Seminar on Climate Change and its Impact on Biological communities (CCIBC).** Organized on dated 12-13 February, 2011 in collaboration with Indian Academy of Environmental Sciences, Haridwar, at Dr. RML. Avadh University, Faizabad. Financial assistance provided by Higher Education Department, U.P.Government, Lucknow, Department of Science and Technology and Ministry of Earth Sciences, New Delhi.
- (3) Earth Day (2011).** Organized on dated 22.4.2011 at Dr. RML. Avadh University, Faizabad. Financial assistance provided by Ministry of Earth Sciences, New Delhi.
- (4) Earth Day (2012).** Organized on dated 22.4.2012 at Dr. RML. Avadh University, Faizabad. Financial assistance provided by Ministry of Earth Sciences, New Delhi.
- (5) World Environment Day (2012).** Organized on dated 05.6.2012 at Dr. RML. Avadh University, Faizabad. Financial assistance provided by Dr. RML. Avadh University, Faizabad.
- (6) World Environment Day (2013).** Organized on dated 05.6.2013 at Dr. RML. Avadh University, Faizabad. Financial assistance provided by Dr. RML. Avadh University, Faizabad.
- (7) Three Days Training Workshop on water Treatment by adsorption (2013).** Organized on dated July 27- 29, 2013 at Dr. RML. Avadh University, Faizabad.
- (8) Earth Day-Organized on 22.4.2014, 22.4.2015, 22.4.2017.** Financial assistance provided by Dr. RML. Avadh University, Faizabad.
- (9) World Environment Day (2017).** Organized on dated 05.6.2017 at Dr. RML. Avadh University, Faizabad. Financial assistance provided by Dr. RML. Avadh University, Faizabad.
- (10) World Environment Day (2018).** Organized on dated 05.6.2017 at Dr. RML. Avadh University, Faizabad. Financial assistance provided by Dr. RML. Avadh University, Faizabad.
- (11) World Environment Day (2019).** Organized at Dr. RML. Avadh University, Faizabad. Financial assistance provided by Dr. RML. Avadh University, Faizabad.

(12) Organized Invited lectures of Eminent Scientists and Academicians:

Dr. P.K. Seth, Former Director and CEO Biotech Park, Lucknow

Dr. D.K. Upreti, Dy. Director, NBRI, Lucknow

Dr. K.C. Gupta, Director, IITR, Lucknow

Dr. Lal Ji Singh, Vice-Chancellor, BHU, Varanasi.

Prof. Manhas Jammu University, J&K

Dr. Vinay Shakti Shukla, Director, Fragrance and Flavour Development Centre, Kannauj.

- (13). National Conference on Current Issues of Environmental Health, Climate Change and its Management (NCECM-2018).** Organized on October 3-4, 2018 in collaboration with Academy of Environmental Biology, Lucknow, at Dr. RML. Avadh University, Faizabad.

LIST OF PUBLICATIONS

Paper Published

1. Devi, S., Yasmeen and **Jaswant Singh** (1985). Incidence of fern spores in the ambient air of Lucknow. *Indian Fern J.* 2: 32-38.
2. Devi, S., Yasmeen and **Jaswant Singh** (1985). Functional aspects adaptability of fern spores in relation to morphological evolution. *J. Palynol.* 21: 154-166.
3. Yasmeen, **Jaswant Singh** and Devi, S. (1985). Studies on the mycolfora associated with rhizome of some ferns. *Geobios New Reports.* 5: 118-121.
4. Devi, S. and **Jaswant Singh** (1986). A note on the fast spreading of *Pteris vittata* in urbanized areas. *Indian Fern J.* 3: 38-41.
5. Yasmeen, **Jaswant Singh** and Devi, S. (1988). Pteridophyte aerospora of India. *Grana.* 27: 229-238.
6. **Jaswant Singh** and Devi, S. (1988). Ultrastructural aspects of spore development in *Pteris vittata* L. *Beitrage zur Biologie der Pflanzen.* 64: 29-38.
7. **Jaswant Singh** and Devi, S (1988). Spore development in *Ampelopteris prolifera*. A light and fluorescence microscopy study. *Indian Fern J.* 5: 63-68.
8. **Jaswant Singh** and Devi, S. (1989). Fibrillar mesh in spore loculus in some Pteridophytes. *Phytomorphology.* 39: 41-45.
9. **Jaswant Singh** and Devi, S. (1989). Effect of linear alkyl benzene sulfonate on germination of spores of the aquatic fern *Ceratopteris thalictroides*. *Bull. Environ. Contam. Toxicol.* 43: 111-117.
10. Devi, S., Yasmeen, **Jaswant Singh** and Ravi, S. (1989). Animal patch testing of some allergenic fern spores. *J. Cutaneous and Ocular Toxicology.* 8(2): 167-172.
11. **Jaswant Singh**, Devi, S and Jamil, Z (1989). Studies on the allergenicity of developing spores of *Pteris vittata* L. *Annals of Allergy.* 63: 239-243.
12. **Jaswant Singh** and Devi, S. (1989). Developmental aspects of spores of *Anemia rotundifolia* Schard; a light and fluorescence microscopy study. *J. Palynol.* 25:73-79.
13. **Jaswant Singh** and Devi, S. (1990). New approach to study fern spore sporoderm. *Proceedings of the Indian National Science Academy.* 56: 299-304.
14. **Jaswant Singh**, Devi, S. and Gupta, M. (1990). Chlorotetracycline induced fluorescence of antherozoids in ferns. *Stain Technology.* 65(3), 125-130.

15. Chandra, P. Devi, S. and **Jaswant Singh** (1990). Effect of Cd, Pb and Zn on spore germination and prothallial development of *Polystichum squarrosum*. J. Environmental Science. 3(2), 22-27.
16. **Jaswant Singh** and Devi, S. (1991). Pteridophyte aerospora of Lucknow. Indian Fern J. 8: 34-40.
17. **Jaswant Singh**, Devi, S. Chawla, G., Gupta, M. and Viswanathan, P.N. (1991). Ultrastructural and biochemical effects of cadmium on the aquatic fern *Marsilea minuta* Linn. Ecotoxicology Environmental Safety. 21: 171-181.
18. Chawla, G., **Jaswant Singh**, Viswanathan, P.N. (1991). Effect of pH and temperature on the uptake and toxicity of cadmium by *Lemna minor*. Bull. Environ. Contam. Toxicol. 47: 84-90.
19. Gupta, M., Devi, S. and **Jaswant Singh**. (1992). Effects of long term low dose exposure to cadmium during the entire life cycle of *Ceratopteris thalictroides*, a water fern. Archives Bull. Environ. Contam. Toxicol. 23: 184-189.
20. **Jaswant Singh** and Devi, S. (1992). Changes in pigment composition during development of fern spores. Biotechnic and Histochemistry. 67(5), 261-264.
21. **Jaswant Singh**, Viswanathan, P.N. Gupta, M. and Devi, S. (1993). Uptake and translocation of ¹⁰⁹Cd by two aquatic ferns in relation to relative toxic response. Bull. Environ. Contam. Toxicol. 51(6), 914-919.
22. **Jaswant Singh**, Chawla, G., Naqvi, S.H.N. and Viswanathan, P.N. (1994). The combined effects of cadmium and linear alkylbenzene sulphonate on *Lemna minor*. Ecotoxicology, 3, 59-76.
23. Garg, P., Viswanathan, V. and **Jaswant Singh** (1994). Cadmium induced variations in phenolics, polyphenoloxidase and peroxidase in *Marsilea minuta* Linn. J. Environmental Sciences and Health, (PartA-Environmental Science & Engineering), 29(7), 1323-1333.
24. Misra, V., Anuradha, Shaw, A., **Jaswant Singh** and Viswanathan, P.N. (1994). Toxicological consideration for the evaluation of ecological and environmental risk due to hazardous sediments and determining ecofriendliness. Ind. J. Environ. Protect. 14 (5) : 345-355.
25. Devi, S. and Garg, P. and **Jaswant Singh** (1994). Plastic mitochondrial association in *Salvinia molesta* Mitchell. Phytomorphology. 43(3&4),
26. **Jaswant Singh** and Devi, S. (1994). Aquatic ferns as bioassays model for ecotoxicity evaluation: An assessment. Indian J. of Environment and Toxicology. 4 (2), 5-7.
27. **Jaswant Singh**, Murthy, R. C., Mishra, V. and Viswanathan, P.N. (1995). Safety and environmental consideration during flyash amended wasteland development. J. Rec. Adv. Appl. Sci. 10 (1&2), 91-97.

28. **Jaswant Singh** and Devi, S. (1995). Development of sporoderm and sporangial walls in *Pteris vittata* L. J. of Palynology. 31, 45-58.
29. Neraliya, S., Pandey, G. C. and **Jaswant Singh** (1995). Population ecology of zooplankton in polluted bharat kund khajurahat, Faizabad, UP,India. Bioved6(2),139-140.
30. **Jaswant Singh**, Viswanathan, P.N., Gupta, P. and Devi, S. (1996). Changes in uptake of calcium caused by phytotoxicity of cadmium in *Salvinia molesta*. Ecotoxicology, 5, 9-21.
31. **Jaswant Singh** (1999). Uptake and toxicity of cadmium to *Pithoclobium dulce* and *Eucalyptus globulus* seedlings. Ind. J. Environ. Toxicology. 9,(2). 62-65.
32. Dubey, A. N., Pandey, V., Upreti, D. K. and **Jaswant Singh** (1999). Accumulation of lead by lichens growing in and around Faizabad, U.P., India. J. of Environmental Biology, 20 (3), 223-225.
33. Singh, P. and **Jaswant Singh** (2000). Studies on the toxicity and biodegradation of detergents. Proc. Acad. Environ. Biol. 9(2), 125-130.
34. Babu, G.S., Farooq M., **Jaswant Singh**, Viswanathan, P.N., Joshi, P.C. and Hans, R. K (2000). Metabolic alterations due to exposure of lindane in basmati rice (*Oryza sativa*) seedlings. Poll. Res., 19(4), 523-528.
35. Singh, A.P. and **Jaswant Singh** (2000). Impact of paper mill effluent on fish fauna of Ami river at Sant Kabir nagar U.P., India. J. Liv. World. 7 (1), 1-4.
36. Babu, G.S., Hans, R. K., **Jaswant Singh**, Viswanathan, P.N. and Joshi, P.C. (2001). Effect of lindane on the growth and metabolic activities of Cyanobacteria. Ecotoxicol. Environ. Safety. 48, 219-221.
37. Gupta, S.K., **Jaswant Singh** and Pandey, G.C. (2001). Haematological alteration in fish *Heteropneutis fossilis* exposed to Tanda loom washing effluent. J. Ecophysiology and Occupational Health. 1, 155-159.
38. Pandey, R., Gopal, K., Kumar, S. and **Jaswant Singh** (2001). Drinking water quality in fluorosis endemic area of Deo Singh Khera village, Gosaiganj, Lucknow, U.P. J. Ecophysiology and Occupational Health. 1, 187-194.
39. Singh, P., Gupta, S.K. and **Jaswant Singh** (2001). Environmental monitoring of detergents in waters of river Saryu at Tanda, Ambedkarnagar, U.P. J. Ecophysiology and Occupational Health. 1, 303-309.
40. Chandra, R., Singh, M. and **Jaswant Singh** (2001). Isolation and characterization of bacterial population from rhizosphere of *Phragmites* sp. and *Cyperus papyrus* growing in kraft paper mill effluent. J. Ecophysiology and Occupational Health. 1, 203-209.

41. Singh, V.K., Pandey, R. and **Jaswant Singh** (2003). Impact of industrial wastewater irrigation on the soil characteristics. *J. Industrial Pollution Control*. 19 (1), 43-52.
42. Baghel, V.S. **Jaswant Singh** and Gopal, K. (2003). Antimicrobial resistance among enteric bacteria, isolated from runoff of the Gangotri glacier, western Himalaya, India. *J. Environ. Biol.* 24(3),349-356.
43. Singh, A.P. and **Jaswant Singh** (2003). Physico-chemical characteristics of river Ami in relation to discharge of paper mill effluent. *Ind. J. Environ. Hlth.*45(2), 93-96.
44. Shukla, U.C., **Jaswant Singh**, Joshi, P.C. and Kakkar, P. (2003). Effect of bioaccumulation of cadmium on biomass productivity, essential trace elements, chlorophyll biosynthesis and macromolecules of wheat seedlings. *Biol. Trace Element Res.*, 92, 257-273.
45. Singh, P. and **Jaswant Singh** (2003). The environmental fate and biological effects of synthetic detergents. *Environmental Impact Assessment Review. J. Ecophysiology and Occupational Health*, 3, 233-242.
46. Mall, M., Singh, P.P. and **Jaswant Singh** (2004). Physico-chemical characterization of paper mill leachate and its impact on seedling growth of *Cicer arietinum*. *J. Ind. Poll. Control*. 20(1) 59-65.
47. Chandra R., Kumar, K. and **Jaswant Singh** (2004). Impact of anaerobically treated and untreated (raw) distillery effluent irrigation on soil microflora, growth, total chlorophyll and protein contents of *Phaeolus aureus* L. *J. Env. Biol.* 25 (4), 381-385.
48. Upadhyay R. and **Jaswant Singh**. (2005). Ethno-medicinal uses of plants from Tikri Forest of Gonda district (U.P.), *Ethnobotany*, 17, 167-170.
49. Singh, P.P. Mall, M and **Jaswant Singh** (2006). Impact of fertilizer factory effluent on seed germination, seedling growth and chlorophyll content of Gram (*Cicer aeritenum*). *J. Env. Biol.* 27 (1), 153-156.
50. Singh V.K. and **Jaswant Singh** (2006). Toxicity of industrial wastewater to the aquatic plant *Lemna minor* L. *J. Env. Biol.* 27 (2). 385-390.
51. Pandey, R and **Jaswant Singh** (2006). Quality assessment of industrial wastewater for safe irrigation. *Indian J. Environ. Protection*, 26 (1), 7-13.
52. **Jaswant Singh**, Upreti, D.K. (2006). Preliminary survey of lichens in Muling Hofmann and Larsemann Hills area of East Antarctica. *Phytotaxonomy* 6: 131-132.
53. H.N. Dutta, Kh. Gajananda and Ved Parkash, Naval Kishore, **Jaswant Singh** and Victor Lagun (2007). A unique plant over Schirmacher region, East Antarctica: signature of the beginning of global warming?. *J. Ecophysiology and Occupational Health*. 7:119-123.

54. Upadhyay R. and **Jaswant Singh**. (2007). Ethno-medicinal plants from Tikri Forest in Gonda district of Uttar Pradesh, *J. Non timber Forest Products* 14 (2), 147-153.
55. **Jaswant Singh**, D.K. Upreti, Devendraa Singh and Sunil M. Sonbawne (2007). Effect of UV-B radiations on the pigment concentrations of three Antarctic plant species. Scientific report 24th Indian Expedition to Antarctica. Technical Publication No. Accepted.
56. Sarvesh and **Jaswant Singh** (2007). Evaluation of toxicity potential of pesticide waste site by earthworm bioassay. *Ind. J. Env. Res.* 19(2).101-110.
57. Upadhyay R., **Jaswant Singh**. and Singh B. (2008). Community structure and diversity of a deciduous forest in Uttar Pradesh. *The Indian Forester* 134 (6), 821-834.
58. **Jaswant Singh** , Upreti, D.K., Bajpai, R., Singh, R.P. and Dubey, A., (2008). Effect of altitudinal changes in photosynthetic pigment concentration in some cryptogam. *J. Ecophysiol. Occup. Hlth.* 8: 107- 110.
59. Singh, P.P.and **Jaswant Singh** (2008). Dumping of hazardous pesticide solid waste through ideal landfill site. *Adv.Zool.* 29 (1): 32-37.
60. Upadhyay R., **Jaswant Singh** and Singh B. (2009). Effect of disturbance on standing biomass in a Sal mixed forest of eastern U.P. *Ind. J. Forestry*, 32:(2) 251-256.
61. Sarvesh, **Jaswant Singh**, Singh P.K., Singh, V. and Singh Y.P. (2009). Toxicity evaluation of pesticide waste leachate by *Allium cepa* root (growth and cytogenetic) assay. *Int. J. Appl. Engg. Res.*, 4: 71-82.
62. Pathak R. and **Jaswant Singh** (2010). The toxicology of microcystins and its implication on human health. *J. Ecophysiol. Occup. Hlth.* 10: 35- 41.
63. **Jaswant Singh** and Pathak, R. K. (2010). Toxicological Assessment Of Cyanobacterial Toxins. *The Bioscan* 5(4):523-530.
64. Trivedi S., Gopal, K. and **Jaswant Singh** (2010). Hydrogeochemical attributes of the meltwater emerging from Gangotri Glacier, Utrakhand. *J. Geol. Society of India.*76(2): 105-110.
65. Gupta, S.K. and **Jaswant Singh** (2011). Evaluation of mollusk as sensitive indicator of heavy metal pollution in aquatic System: A review. *The IIOAB Journal.*2:49-57.
66. **Jaswant Singh**, Dubey, A.K. and Rudra P. Singh. R.P. (2011). Antarctic terrestrial ecosystem and role of pigments in enhanced UV-B radiations. *Reviews in Environmental Science and Biotechnology* 10:63-77.
67. **Jaswant Singh**, Upadhyay, S.K. Pathak, R. K and Gupta, V. (2011). Accumulation of heavy metals in soil and paddy crop (*Oryza sativa*), irrigated with water of Ramgarh lake, Gorakhpur, U.P. India. *Toxicological and Environmental Chemistry.* 93 (3):462-473.

68. Gautam, S., **Jaswant Singh**, Pant, A.B. (2011). Effect of UV-B radiations on the pigments of two Antarctic lichens of Schirmacher Oasis region, East Antarctica. Polish Polar Research, 32 (3) 279-287.
69. **Jaswant Singh**, Singh, R.P. and Dubey, A.K. (2012). Effects of Ultraviolet-B (UV-B) radiation on two cryptogamic plants pigments growing at high altitude of central Himalayan region, India. African J. Environmental Science and Technology. 6 (1): 9-16. (ISSN 1996-0786).
70. **Jaswant Singh**, and Upadhyay, S.K. (2012). Seasonal variations in heavy metals in Ramgarh lake, Gorakhpur, India. International J. of Lakes and Rivers. 5(2): 63-64. (ISSN 0973-4570).
71. **Jaswant Singh** and Upadhyay, S.K. (2012). Heavy Metals Assessment in Sediment of Ramgarh Lake, UP, India. J. Ecophysiology and Occupational Health. 12:13-19.
72. **Jaswant Singh**, Gautam, S., Pant, Bhusan A. (2012). Effect of UV-B radiation on UV Absorbing compounds and pigments of moss and lichen of Schirmacher Oasis region, East Antarctica. Cell. Mol. Biol. 58 (1): 80-84.
73. **Jaswant Singh** and Singh, R.P. (2012). Studies on the Induction of UV-B absorbing compounds in *Bryum argenteum*. International Journal of Environmental Science and Technology, 1(2): 163-171. (ISSN 2278-0785).
74. **Jaswant Singh**, Upadhyay, S.K. and Pathak, R.K. (2013). Seasonal variations in physicochemical characteristics and cyanobacterial diversity of a lake in Northern India. Toxicological and Environmental Chemistry. 95(3): 458-471.
75. **Jaswant Singh** and Singh, R.P. (2014). Adverse effect of UV-B radiation on plants growing at Schirmacher Oasis, East Antarctica. Toxicology International. 21 (1):101-106.
76. Gupta, S.K., Chabukdhara, M., Kumar, P., **Jaswant Singh** and Bux, F. (2014). Evaluation of ecological risk of metal contamination in river Gomti, India: A biomonitoring approach. Ecotoxicology and Environmental Safety. 110: 49-55.
77. Pandey, R. and **Jaswant Singh** (2014). Assessment of industrial wastewater quality for safe irrigation. Journal of Sustainable Environmental Research. 3 (1): 69-76. (ISSN:2278-196X).
78. Gupta, S.K., Chabukdhara, M., **Jaswant Singh** and Bux, F. (2015). Evaluation and potential health hazard of selected metals in water, sediments, and fish from the Gomti River. Human and Ecological Risk Assessment. 21 (1): 227-240.
79. Pandey R. and **Jaswant Singh** (2015). Effect of textile factory effluent irrigation on productivity of wheat crop. Int. J. Sci. Env. Technology. 4 (3), 727-736. ISSN 2278-3687(O) 2277-663X (P).

80. Pandey R. and **Jaswant Singh** (2015). Effect of industrial waste water irrigation on productivity of wheat crop. Int. J. Env. Sci. 6 (3), 402-409. ISSN 0976-4402.

81. **Jaswant Singh**, Upreti D.K. Dubey, A.K. (2016). Effect of elevation gradient on the distribution of lichens and mosses of central Himalayan region, Uttarakhand, India. G-Journal of Environmental Science & Technology, 3 (5): ISSN (Online): 2322-0228; ISSN (Print) : 2322-021X

82. **Jaswant Singh**, Singh, R.P. and Khare R (2018). Influence of climate change on Antarctica flora. Polar Science 18; 94-101. ISSN 1873-9652.

Review Articles:

1. **Jaswant Singh**, Chawla, G. and Viswanathan, P.N. (1988). Effect of detergent pollution on aquatic flora. *Advances in Plant Sciences*, 1(2), 208-213.
2. **Jaswant Singh** (1990). Ecotoxicological significance of thermal pollutants. *J. Rec. Adv. Appl. Sci.* 5:53-58.
3. **Jaswant Singh**, Chawla, G. and Viswanathan, P.N. (1990). Detergent Pollution and aquatic flora. *J. Scientific and Industrial Research*, 49: 350-353.
4. Jaffery, F. N., Misra, V., **Jaswant Singh** and Viswanathan, P.N. (1992). Predictive ecotoxicology testing. Scope and Applications. In: *Proceedings of workshop-cum training on biomonitoring in river Ganga*, (Eds.), Apurba Ghosh et. al. Central inland capture fisheries research institute (ICAR), Barrakpur, W.B., pp. 32-40.
5. **Jaswant Singh** (1993). Biomonitoring surveys for environmental risk assessment. Training course on risk assessment and management under World Bank aided project, "Industrial Pollution Control of DOEnF, 5-25th June at Industrial Toxicology Research Center, Lucknow, U.P.
6. **Jaswant Singh**, Misra, V., Pandey, S. D. Naqvi, S.H.N. and Viswanathan, P.N. (1993). Safe agricultural reuse of industrial wastewater. Training course on risk assessment and management under World Bank aided project, "Industrial Pollution Control of DOEnF, 5-25th June at Industrial Toxicology Research Center, Lucknow, U.P.
7. Misra, V., **Jaswant Singh** and Pandey S.D. (1993). Ecotoxicity evaluation tests on effluents by dimensionless toxicity index. Training course on risk assessment and management under World Bank aided project, "Industrial Pollution Control of DOEnF, 5-25th June at Industrial Toxicology Research Center, Lucknow, U.P.

Completed Research Project Principal Investigator:

S. No	Title	Agency	Period	Grant/ Amount Mobilized (Rs. lakh)
1	Ecotoxicological Evaluation Of Water Pollutants Originating From Industrial Wastewater.	AICTE, New Delhi.	March 1997- November 2000.	Rs.4.0 lakhs.
2	Studies on the Management and Safe Reuse of Industrial Wastewater.	UPCAR Lucknow, U.P.	21.11.2000- 21.11.2003.	Rs.7.072 lakhs.
3	Ecological and Human Health Risk Assessment of Detergents in the Handloom Industry in Eastern U. P.	Council of Science and Technology of U.P., Lucknow.	19.10.2002- 19.10.2005.	Rs.3.37 lakhs.
4	Environmental Monitoring and Ecological Risk Assessment of Industrial Solid wastes.	Ministry of Environment and Forests, New Delhi.	12.7.2002- 12.7.2005.	Rs.11.50 lakhs.
5	Studies on the influence of Ultraviolet-B radiation on the survivorship and pigment concentration of flora over Schirmacher Oasis, East Antarctica.	National Centre For Antarctic & Ocean Research, Goa (Ministry of Earth Sciences).	15.7.2006- 15.7.2009.	Rs.9,96,600.00. lakhs
6	Adaptive Strategies of Microflora In The Harsh Antarctic Environment Over The Schirmacher Region, East Antarctica.	CSIR, New Delhi.	2.11. 2006- 31.1.2010.	Rs.10.00 lakhs

7	Identification of cyanobacterial population and characterization of cyanotoxins of Ramgarh lake of district Gorakhpur U.P.	Council of Science and Technology of U.P., Lucknow	14.10.2009- 13.10.2012.	Rs.6.96 lakhs.
8	Influence of climate change on photosynthetic pigments of phytoplankton of Arabian Sea as a measure of carbon reduction.	Ministry of Earth Sciences, New Delhi.	26.4.2011- 26.4. 2014	54.12 lakhs

Research Projects in Progress as Principal Investigator

S. No.	Title	Agency	Period	Grant/ Amount Mobilized (Rs. lakh)
1	Studies on the influence of UV-B radiation on cryptogamic flora (Lichen and Moss) of Himalayan region, India	UGC, New Delhi	24 September 2015-2018	Rs.13,25,000/-

Papers presented in Seminars/Conference

S. No.	Title of the paper presented	Title of Conference/ seminar	Organized by	Whether International/ national/ state/ regional/ college or university level
1	Aquatic Ferns-An area ignored by environmentalists. (1990).	Wetland Ecology and Managemt, Bharatpur Bird Sanctuary, Bharatpur, Rajasthan.	Bombay Natural History Society, Ecol. Research Centre	National
2	Water Quality Yardstick Development. 29-31 st , (1992). pp.37.	Int. Workshop on [Bio] Monitoring Yardstick development.	Nat. Institute of Public Health & Environ, (RIVM), The Netherlands and Central Poll. Control Board, Delhi.	International
3	Aquatic Ferns as bioassays model for ecotoxicity evaluation. November 7-9, (1993).	14th Annual Session of the Academy of Environ. Biol. & Symp. on Toxicity evaluations in Biosystems.	P.G. College, Indore, M.P.	National
4	Environmental Education. January10-13, (1996).	4 th World Environ. Congress "Eco philosophy Summit 1996".	The Global Open University, Milan, Italy & Indian Inst. of Ecol., N. Delhi.	International
5	Assessment of water quality of the Saryu river, Ayodhya, Faizabad, U.P., India. Feb. 17-18, (1996).	Nat. Symp. on Prospects & Problems of Tech. Transfer & Rural reality.	Bioved Reseach Society. Allahabad.	National
6	Ecotoxicological evaluation of solidwaste by using plant bioassay system. Nov.17-19, (1997).	Inter. Conf. on Industrial Pollution and control techniques ICIPACT-97.	Center for Environ., Jawarharlal Nehru Technol. University, Hyderabad.	International
7	Studies on the biodegradation of detergents by <i>Spirodella polyrrhiza</i> , 14-16 th November (1998).	Symposium on "Biomonitoring & Ecosystem & Ecoconser".	The Acad. of Environ. Biol., Bareilly collegeBareilly	National

8	Environmental Education: The need and efforts in India- A case study. April 15-17, (1999).	5th auDes conference on Environ. Education, Zurich, Switzerland.	“The Association of University Dept. of Environ. Sci. in Europe”.	International
9	Detergent and the Environmental Safety Assessment. November 6-10, (1999).	4th Congress of Toxicol. in Developing Countries, Antalya, Turkey.	The Turkish Society of Toxicology.	International
10	Studies on pollution status of natural water bodies of Kushinagar. April 25 (1999).	Workshop	The living world Society, Gorakhpur.	Regional
11	Environmental aspects of detergents. April 25 th (1999).	Workshop	The living world Society, Gorakhpur.	Regional
12	Physico-chemical characteristics of river water in relation to discharge of paper mill effluent. April 25 (1999).	Workshop	The living world Society, Gorakhpur.	Regional
13	Environmental monitoring of detergents in waters of river Saryu at Tanda, Ambedkar Nagar. November 6-8, (2000).	Symposium on Ecophy. consequences Environ. Poll.	ND University of Agri. & Tech., Kumarganj, Faizabad.	National
14	Need of Environmental Education in the conservation and protection of the Biodiversity”, November 6-10 (2001).	VI Global Conference on Environ. Education.	New Delhi.	International
15	Studies on the effects of Industrial wastewater irrigation on the soil characteristics. February 8-10, (2002).	National Conf. on Soil Contamination and Biodiversity.	The Indian Network for Soil Contamination Research ITRC, Lucknow.	National
16	Drinking water characteristics and their significance with special reference to Public health in Masodha Block area, Faizabad, U.P. (2002).	National Symposium on biodiversity and Resource Management	National Bureau of Fish Genetic Resources. Lucknow	National
17	Survival strategies of microflora growing in the harsh environmental ... Indian Antarctic station at Antarctica. July 18-19 (2003).	Res. Prog. of Indian Antarctic Expeditions: Retrospect & Prospect.	NCAOR Goa.	National

18	Studies on the toxicity assessment of Industrial wastewater using Duckweed (<i>Lemna minor</i>) Bioassay. February 28 th -29 th (2004).	National seminar on Environ. Manage. & its impact on national develop.	Birla college of Arts, Science & Commerce, Kalyan & Society of Science & Develop.	National
19	Studies on the influence of ultraviolet-B radiation on the survivorship and pigment concentration of flora over Schirmacher Oasis, East Antarctica. July 19-20 (2004).	Workshop on Indian Antarctic Research Programme.	NCAOR, Goa.	National
20	Shipborne acoustic sounder observations of thermal convection over east Antarctic ocean". July, (2004).	Inter. Symposium on Acoustic Remote sensing (ISARS).	ISARS, Cambridge UK.	International
21	An investigation into the atmospheric dynamics during a warm spell over east Antarctica in February 1996, July, (2004).	Inter. Symposium on Acoustic Remote sensing (ISARS).	ISARS, Cambridge, UK.	International
22	Influence of ultraviolet-B radiation and Environmental factors on the survivorship of flora of Antarctica. October 7-8 (2005). pp. 63.	The scientific programs and thrust areas in Polar Sci. during 11 th Five Year Plan.	NCAOR, Goa.	National
23	Human Health Risk Assessment of detergents in the Handloom Industry at Tanda, District Ambedkar nagar, U.P. October 22-24 (2005).	Nat. Symp. Recent trends in Environ. Biol. & Biotech. Approach conservation biodiversity.	Academy of Environ. Biol., at Department of Zoology, Gulbarga University, Karnataka.	National
24	Toxicity assessment of pesticide leachate using <i>Allium cepa</i> bioassay. 16-18 February (2006).	Nat. Sem. on Environ. Managemt. in 21 st Century Issues and Challenges.	Centre of Advanced Study in Botany, Banaras Hindu University, Varanasi.	National
25	Morphological and Biochemical changes in <i>Marsilea minuta</i> by pesticide	National Symposium on Issues and	Deptt. of Environmental Sciences, B.B.	

	leachate. 17-19 February (2006).	challenges for Environ. Managemt: Vision 2025.	Ambedkar University, Lucknow, U.P.	National
26	Aerosol monitoring of Indo-Gangetic plains-data needed for regional climate changes. (2006).	Workshop on “Aerosol and Its impact on climate with special reference to Indo-Gangetic Plains.	IIT Kanpur.	National
27	Ecotoxicity identification and evaluation of pulp and paper mill leachate using <i>Marsilea minuta</i> bioassay. February 25-26 (2006).	Seminar on Environ. Challenges & Develop.	M.D.P.G. College, Paratapgarh. U.P.	Regional
28	Toxicity evaluation of pesticide waste leachate by seed germination bioassay, a comparative study. Dec. 22-25, (2006).	Nat. Sem. on Environ. Scenario: Challenges and Sol.	APS University, Rewa (M.P.).	National
29	Survival strategies of microflora of Schirmacher Oasis, East Antarctica. May 25-26 (2006).	Sem. Ant. Science; Indian contributions in Global Perspectives.	National centre for Antarctic & Ocean Research, Goa, India.	National
30	Earth quake precursor measurement by Acoustic Sounding Technique: Need to develop an integrated pressure measurement network for disaster mgmt. Dec.11-13 (2006).	Inter. Conf. on Advances in Metrology (AdMet-06), India.	Habitat Centre, N. Delhi.	International
31	Antarctica flora and their adaptations to extreme environmental conditions. Feb17-18, (2007).	Nat. Sem. on India-Sci Endeavors in Ant & Southern Ocean.	Govt. College of Arts, Science & Comm., Goa.	National
32	Biodiversity of lichens in and around Indian research station in East Antarctica. March 9-11 (2007).	Nat. Sem. on “Biodiversity of Medicinal plants, Utilization & their Conser”.	The Deptt. of Zool.& Environm. Sci., Gurukul Kangri University, Haridwar.	National
33	Antarctic life and their	National	The deptt. of	

	adaptations to extreme environmental conditions. 26-28 October (2007).	symposium on Biomarkers of Environ. problems.	Zool. & Environ. Sci., Ch. Charan Singh University, Meerut.	National
34	Studies on the influence of ultraviolet-B radiation on survivorship and pigment concentration of flora over Schirmacher Oasis, east Antarctica. (2008).	Nat. workshop on Research projects review and planning of Indian Scientific expedition to Arctic and Antarctic.	National Centre for Antarctic and Ocean research, Goa.	National
35	Induction Of UV-Absorbing Pigments In Antarctic Flora: A Mechanism Of Survival In Harsh Environ. Conditions Of Antarctica. November 19-22, (2008).	28th Annual Session of The Acad. Environ. Bio.&Nat.Symp. Environ. Stress & Biores. Mgmt.	Deptt of Botany, Jamia Hamdard (Hamdard University), Delhi.	National
36	Comparative assessment of UV-B induced changes in pigments of <i>Bryum argenteum</i> at Maitri, Schirmacher oasis of east Antarctica and Central Himalayan region of India. October 4-6, (2009).	Inter. Conference on Polar Science and Technology.	Nat. Environ. Science Academy at Jamia Hamdard University, N. Delhi.	International
37	E-Waste: An Emerging problem in developing countries. 25-27 July, (2009). pp.41.	Inter. Symp. on Environ. Pollut., Ecology & Human Health.	Deptt. Of Zoology, S.V. University, Tirupati, India.	International
38	Management of <i>Helicoverpa armigera</i> (Huber) on chickpea: Retrospect and Future Prospect in India. Sept. 26-27 (2009).	Nat. Sem. on Response of Ecobiol. components to the phenomenon of Global warming.	Deptt. Of Zoology, DBS Campus Kamaun University of Nanital, U.P.	National
39	Global Economic Recession and its Impact on Environment. February 24-25 (2010).	Nat. Sem. on The Global Recession and its impact on India.	Faculty of Commerce, Lucknow.	National
40	E-waste hazards: A global issue to manage, February 05-06, (2010).	Nat. conf. on chemicals use pattern in India.	The Deptt. Of Chem, G.A. P.G. college, Ambedkar nagar, U.P.	National

41	Climate Controversy: Planet Earth Could be a Real Loser. February 16 th (2010).	Symp. on Climate Change: Issues and Imperatives.	Deptt. Of Environ. Sci., BBA Central University, Lko.	National
42	Physico-chemical Characteristics of Ramgarh Lake, Gorakhpur, U.P., India. February 12-13, (2011).	Nat. Sem. on Climate Change and its Impact on Biological Communities.	Deptt. Of Environ. Sci., Dr. RMLA University, Faizabad.	National
43	Influence of climate change on planktonic pigments of Arabian Sea. February 12-13, (2011)	Nat. Sem. on Climate Change & its Impact on Biol. Communities.	Deptt. Of Environ. Sci, Dr.RMLA University, Faizabad.	National
44	Toxic cyanobacteria and their health hazards to human. February 12-13, (2011).	Nat. Sem. on Climate Change & its Impact on Biol. Comm.	Deptt. Of Environ. Sci, Dr.RMLA University, Fzd.	National
45	Role of phytoplanktons pigments in carbon uptake in oceans. November 11-13, (2011).	World Congress for man & nature, global climate change & Biodiversity Conservation	Deptt. Of Zool. & Environ. Sci, Gurukul Kangri Vishwavidyalaya, Haridwar.	International
46	My life and experiments with survival mechanism at Antarctica. December 4-5, (2011).	National. Conf. on Frontiers in Biology Sciences.	Faculty of Sciences, VBS Purvanchal University, Jaunpur	National
47	Assessment of water quality and phytoplankton pigments of coastal areas of Arabian sea at Goa. December 4-5, (2011).	National. Conf. on Frontiers in Biology Sciences.	Faculty of Sciences, VBS Purvanchal University, Jaunpur	National
48	Responses and Adaptations of Antarctic Cryptogamic plants to ultraviolet-B radiations. December 28-29, (2011).	Conference on Polar Science and technology.	XXIV Annual conf. of Nat. Environ. Sci. Acad. Bengaluru.	International
49	Adaptations of Antarctic cryptogams to UV-B radiations. March 23-24, (2012).	Nat. Conf. on role of new tech. cons. of Environ.	APS University, Rewa, M.P.	National
50	E-waste pollution: A global issue to manage, March 24-25 (2012).	Nat. Conf. on Bioremediation- A Promising..for clean India.	The Deptt. Of Biotech, I.T. college, Lucknow, U.P.	National

51	Life and experiments with survival mechanism at Antarctica. 07 July (2012). pp.18.	Nat. Sem. on New Perspectives of Natural Sciences-II.	The deptt. Biol.&Environ. Sci., N.V. Patel College of Pure and Applied Sci., Vallabh Vidya Nagar, Gujrat.	National
52	Water quality, nutrient and chlorophyll concentration of a tropical estuarine system at west coast of Goa. September 20-22, (2012). pp. 18	32 nd Annual Session of The Acad.Environ. Bio. & Nat. Sem. on Emerging trends & Pathogens: Challenges & Risk Reduction.	The Academy of Environ. Biology and CSIR-IITR, Lucknow, U.P.	National
53	E-waste pollution: management practices. Nov. 28-29, 2012.	Int. conf. on Environ. & human health.	Nat. Environ. Sci. Acad & Deptt. Of Botany, Jamia Hamdard.	International
54	E-waste Pollution: Need of suitable management practices. Dec. 5-7, (2012).	The XXXII Annual conf. of society of Toxicol. & Int. Symp. on New Frontiers in Toxicol.	CSIR-Indian Institute of Toxicology, Lucknow.	International
55	Phytoplankton diversity of Mandovi and Zuari estuaries of Arabian sea. April 28, (2013).	Nat. sem. on Environ. Degradation & aquaculture.	The Deptt. Of Zoology, B.S.N.V.P.G. College, LKo.	National
56	The effect of UV-B radiation on pigments of lichen and moss growing at Schirmacher Oasis, East Antarctica. April 15-16, (2013)	2 nd Science One Inter. Conf. on Environ. Sci. held at Dubai UAE.	The Science One, Dubai, UAE.	International
57	Induction of UV absorbing compounds in Antarctic plants against UV-B Radiations. March 20-21, 2013, pp.07.	Ist Lucknow Science Congress Innovations in Science for better tomorrow	BB Ambedkar (A central University), Lucknow (U.P.).	National
58	Climate Change and risks to small Islands States. 09 & 10 September (2014). pp.40.	Expert meet and conference on Climate change and Environmental sustainability: Records from poles to tropics.	The Centre of Advanced study in Geology, University of Lucknow (U.P.).	National

59	Influence of physico-chemical parameters on the phytoplankton diversity of Mandovi-Zuari estuaries at west coast of Goa. October 10-12, 2014, pp.67.	34th Annual Session of The Academy of Environmental Biology and National Seminar on Challenges for Sustainability of Natural Resources and Environment with emphasis on aquatic ecosystem for livelihood security.	The College of Fisheries, G.B. Pant University of Agriculture and Technology, Pantnagar.	National
60	Life and fish fauna of Antarctic waters. February 8-10, 2016. Pp.04	National Conference on Env. Impact & its Management	Dept of Zoology, University of Rajasthan, Jaipur	National
61	Environmental Hazards of E-wastes and its Management. 23-24 December 2017. pp93.	National Conference on Impact of Environmental Changes on Indian Ecosystems.	National Environmental Science Academy (NESA) & Dept. of Environmental Sciences & Limnology, Barkatullah University, Bhopal, M.P	National
62	E-waste Challenge to the Environment and Its Management. April 13-15, 2018.	22 nd International Academy of Physical Sciences (CONIAPS XXII).	DR.RML Avadh University, Faizabad	International
63	UV-Absorbing pigments in plants growing at Polar regions. April 8-12, 2019. PEI 2019, U. K.	Education and Polar Science in Action”, Cambridge, UK.		International
64	Prospects of Aroma Technology in Eastern Uttar Pradesh. April 16, 2019.	Flavours & Fragrances Expo 2019, Mumbai.		Regional
65	Recycling of Temple Flowers into Flowery water. April 16, 2019.	Flavours & Fragrances Expo 2019, Mumbai.		Regional

Invited Lectures

S. No .	Title of Lecture/Academic Session	Title of conference/ seminar etc.	Organized by	Whether International/ National
1	Invited Speakers 17-19 Feb 2006.	Nat. Symp. on "Issues & Challenges For Environ. Mgmt. Vision 2025"	Deptt. Of Environ. Sci. BBA University, Lucknow.	National
2	Invited Speakers- My Life and Experiment with Survival mechanism at Antarctica. Dec. 4-5 2011.	Nat. Conf. on Frontiers in Biol. Sci.	Deptt. Of Biotech., VBS Purvanchal University, Jaunpur, U.P.	National
3	Invited Speaker & Chaired the Session, November 11-13. 2011.	World Congress for Man and Nature "Global Climate Change & Biodiversity conservation".	Deptt. Of Zoology & Environ. Sci. Gurukula Kangri Vishwavidyalaya, Haridwar Uttarakhand,	National
4	Invited Speaker & Chaired the Session, September 20-22, 2012	32 nd Annual Session of The Academy of Environ. Biol. & Nat. sem. On " Emerging pollutants & pathogens: Challenges & Risk Reduction".	CSIR- Indian Institute of Toxicology Research, Lucknow & The Academy of Environ. Biology, Lucknow.	National
5	Invited Speakers & Co-Chairperson November 28-29, 2012	Environ. & Human Health	Nat. Environ. Sci. Academy in association with Deptt. Of Botany, Jamia Hamdard.	International
6	Invited Speakers 24-25 March, 2012.	"Bioremediation – A Promising Technology for clean India".	Isabella Thoburn College, Lucknow.	National
7	Invited Speakers- Life and Experiments with Survival Mechanism at Antarctica. 7 th July 2012.	Nat. Sem. on New Perspectives of Natural Sciences- II.	Deptt. Of Biol. & Environ. Sci., Natubhai V. Patel College of Pure & Applied Sci.	National
8	Invited Speakers-Indian scientific Expedition to Antarctica. Jan. 14, 2012	Orientation Programme	University of Lucknow, Lucknow.	National
9	Invited Speakers- My Life and Experiment of Survival at Antarctica. March 5, 2013.	Orientation Programme - 111.	University of Lucknow, Lucknow.	National
10	Chief Guest 13 th Feb. 2012.	"Debate Competition" on Develop improves or degrades the Environ.	Jhunjhunwala P.G. College, Faizabad.	-
11	Invited Speakers- My Life and Experiment with Survival at Antarctica. Novemebr 16, 2013.	Refresher course in Life Sciences, 11-30 Nov. 2013.	UGC-ASC University of Jaipur, Rajasthan.	National

12	Life and Survival at Antarctica. Feb.15, 2014	Symposium on Safe Water By National Academy of Sciences India (Allahabad Chapter)	Dr. Rizvi Learners Academy at Jaunpur, U.P.	District
13	21-23 Feb.2014.	International Conference on Environmental Technology and Sustainable Development: Challenges & Remedies.	Dept. of Environmental Sciences, BB Ambedkar (A Central University), Lucknow (U.P.).	International
14	My Life and survival mechanism at Antarctica. Key note Speaker 23 & 24 th March,2014.	National Seminar Human Impact on Environment	SKBB Govt. PG. College, Harakh, Barabanki.	National
15	River Monitoring: A case study of Yamuna River. 9-11 May, 2015 Invited Speaker	Gomti Yatra and National Seminar on Rejuvenation of River Gomti: Past, Present and Future (Gy & NSRRG-2015)	Babasaheb Bhimrao Ambedkar University (A Central University) Lucknow, U.P.	National
16	Survival of life at Antarctica and its Biodiversity, 31 Oct-2 Nov. 2015. Invited Speaker	3 rd Lucknow science Congress and National Conference on Science for Society: An Interdisciplinary Approach.	Babasaheb Bhimrao Ambedkar University (A Central University) Lucknow, U.P.	National
17.	Life in Antarctica and effect of UV rays on flora. Invited speaker/Mentor in Inspire Science Camp. 03.12.2015	Department of Science and Technolgy, Govt. of India. New Delhi.	Kashi institute of Technology, Varanasi	National
18.	Life and fish fauna of Antarctic waters. February 8 – 10, 2016	National Conference on Env. Impact on Health & its Mgmt	Dept. of Zoology, University of Rajasthan, Jaipur	National
19	Life and Experiments with survival at Antarctica. Invited speaker, Chief guest. 14.02.2016	Youth led Sustainable development.	Sacred Heart degree college, Sitapur, U.P.	National
20	Environmental Issues & Challenges	World Environment Day, 2019	DSCL Sugar, Loni, Hardoi, U.P.	Regional