CURRICULUM VITAE

Full Name	Dr. Kuldeep Singh		
Designation	Professor		
Department	Physics		
Institute	Govt. Degree College Dehradun Shahar, Dehradun		
Mobile No.	+91-9412079546		
Email	drksingh2010@gmail.com		



Educational Qualification	Ph.D.(20	Ph.D.(2003), HNB Garhwal University Srinagar Garhwal			
	M.Sc.(1	M.Sc.(1998), HNB Garhwal University Srinagar Garhwal			
	B.Sc.(19	996), HNB Garhwal University	Srinagar Garhwal		
Teaching Experience	20 Years	Research Experience	25 Years		
Areas of Interest/Specialization					

1. Material Science 2. Radiation Physics

Membership of Scientific Organizations

- 1. Indian Association of Physics Teachers(IAPT), Kanpur, India.
- 2. National Radon Network Society, New Tehri, India.

Research Supervision

Awarded – 02(Supervision – 01, Co-supervision -01, Registered/Ongoing -01), M.Sc. Dissertation - 48

Research Projects

- 1. A Comprehensive Study on Natural Radiation Level in Almora, Bageshwar and Nainital Districts of **Uttarakhand**. (Grant- Rs.46,26,185, BRNS, Department of Atomic Energy, Mumbai Duration-05 Years, Completed)
- 2. A Study on Natural Radiation Level in Champawat and Pithoragarh Districts of Uttarakhand (Rs.39,22,450/-, BRNS, Department of Atomic Energy, Mumbai, Duration -03 Years, Completed)
- 3. Measurement and Mapping of Natural Radioactivity in Agricultural soil and Crop/Vegetation across two districts(Haridwar and Dehradun) of Uttarakhand, (Rs. 11,95,750/-, Higher Education Department, Govt. of Uttarakhand, Duration-02 Years, Ongoing)

Research Publications

- Temperature dependence of soft mode frequency and width in Potassium and Sodium Niobate, Vijendra Lingwal, Kuldeep Singh, S.C.Bhatt, N.S.Panwar and B.S.Semwal, , Ind. J. Pure and Appl. Phys, Vol. 38, July 2000. pp. 533-535.(IF:0.923)
- 2. Relaxation time and Ultrasonic attenuation in some binary and ternary liquid system, S.C. Bhatt, Harikrishna semwal, Vijendra Lingwal, Kuldeep Singh and B.S. semwal, J. Acous. Soc.Ind., Vol.28 No. 1-4, 2000, pp. 275-278.(**IF: 1.819**)
- 3. Acoustical parameters of some molecular liquids, S.C.Bhatt, Harikrishna Semwal, Vijendra Lingwal, Kuldeep Singh and B.S.Semwal, J Acoust. Soc. Ind., Vol. 28 No. 1- 4, 2000. pp.293-296.(IF: 1.819)
- 4. Dielectric Properties of Potassium Sodium Niobate mixed system, Kuldeep singh, Vijendra Lingwal, S.C.Bhatt, N.S.Panwar and B.S.Semwal, Materials Research Bullettin, Vol.36, pp. 2365-2374 (2001).25 may-2001(**IF: 5.6**)
- 5. Study of Subcell parameters, Grain size and Dielectric properties of Potassium Sodium Niobate mixed system, Kuldeep Singh, Manish Uniyal, S.C.Bhatt and B.S.Semwal, Sri Lankan Journal of Physics, Vol. 2, 13(2001).
- 6. Preparation, Characterization and Dielectric studies of K_{1-x}Na_xNbO₃, M.Uniyal, Kuldeep Singh, Sunil Bhatt, S.C. Bhatt, R.P.Pant, D.K.Suri & B.S.Semwal, Ind. J. of Pure & Appl. Phy., Vol. 41, April 2003, pp. 305-309.(**IF:0.923**)
- 7. Theoretical Study of ABO₃ type perovskite with reference to KNbO₃, Kuldeep Singh, S.C.Bhatt &

- B.S.Semwal, Ind. J. Pure and Appl. Phys, Vol. 43, Oct. 2005. pp. 772-776. (IF:0.923)
- 8. Temperature dependence of dielectric properties of sodium potassium niobate Ceramics, S.C.Bhatt, *K.Singh*, M.Uniyal, Om Prakash, Pankaj K.Singh, R. Sexena & B.S.semwal, Ind. J. Pure and Appl. Phys, Vol. 45, July 2007. pp. 609-612.(IF:0.923)
- 9. Measurement of Radon, Thoron and their progeny in different type of dwelling in Almora district of Kumaun Himalaya Region, Kuldeep Singh, Poonam Semwal, Preeti Pant, G.S. Gusain, Manish Joshi, B. K. Sapra and R.C. Ramola, Radiation Protection Dosimetry, Vol. 171, 31 March 2016, pp. 223-228. http://doi:10.1093/rpd/ncw063(IF-1.0)
- **10. Environmental Ionizing Radiation: A Review,** Ankur Kumar, Poonam Semwal, *Kuldeep Singh*, Prakhar Singh and P.P.Pathak, **J. Env. Bio-Sci.**, Vol. 31(2), 16 September 2017, pp. 493-497.
- 11. Correlation of Radon and Thoron exhalation rate with gamma level from soil sample in Tehri Garhwal, Uttarakhand, INDIA, Poonam Semwal, *Kuldeep Singh*, G.S. Gusain, Ankur Kumar and R.C. Ramola, J. Env. Bio-Sci., Vol. 31(2),16 September 2017, pp. 499-502.
- 12. Measurement of ²²²Rn and ²²⁰Rn exhalation rate from soil samples of Kumaun Hills, India, Poonam Semwal, *Kuldeep Singh*, T.K Agarwal, Manish Joshi, Preeti Pant, Tushar Kandari and R.C. Ramola, Acta Geophysica, V.66, Issue-5, 21 March 2018, pp.1203-1211. https://doi.org/10.1007/s11600-018-0124-3(*IF-2.293*)
- 13. Indoor inhalation dose assessment for thoron-rich regions of Indian Himalayan belt, Poonam Semwal, Tarun Kumar Agarwal, *Kuldeep Singh*, Manish Joshi, Gurupad Singh Gusain, Bijay Kumar Sahoo & Rakesh Chand Ramola, Environment Science and Pollution Research(2019), 26:4855–4866.19, Dec 2018, https://doi.org/10.1007/s11356-018-3891-0 (*IF-5.19*)
- 14. Statistical inferences from measured data on concentrations of naturally occurring radon, thoron, and decay products in Kumaun Himalayan belt, Ankur Kumar, Prakhar Singh, Tarun Agarwal, Manish Joshi, Poonam Semwal, Kuldeep Singh, Parmanad Prakash Pathak & Rakesh Chand Ramola, Environmental Science and Pollution Research(2020) 27:40229–40243.13 July 20201. (IF-5.19)https://doi.org/10.1007/s11356-020-09920-9
- 15. Quantification of radiological dose and chemical toxicity due to radon and uranium in drinking water in Bageshwar region of Indian Himalaya, Ankur Kumar, Tushar Arorab, Prakhar Singh, Kuldeep Singh, Devendra Singha, P. P. Pathak & R.C. Ramola, Ground water for sustainable development, 12(2021)10491(Journal of Elsevier) 6 Oct 2020.(IF-1.075) https://doi.org/10.1016/j.gsd.2020.100491
- **16.** A review on human exposure to indoor radon concentration and measuring techniques in Garhwal Himalaya, Uttarakhand", Taufiq Ahamad, O P Nautiyal, Prakhar Singh, A Bourai, A S Rana & Kuldeep Singh, *Applied Innovative Research*(CSIR-NISCAIR), Vol. 2, September 2020, pp. 237-244.
- 17. Study of primordial radionuclides and radon/thoron exhalation rates in Bageshwar region of Kumaun Himalaya, India", Ankur Kumar, Prakhar Singh, Poonam Semwal, Kuldeep Singh, Mukesh Prasad & Rakesh Chand & R.C. Ramola, Journal of Radioanalytical and Nuclear Chemistry, 328(3), 1361-1367(2021) 25 Jan 2021.(IF-1.754)
- 18. Quantification of 222Rn/ 220Rn exhalation rates from soil samples of Champawat region in Kumaun Himalaya, India, Taufiq Ahamad, Prakhar Singh, O. P. Nautiyal, Manish Joshi, A. A. Bourai, A. S. Rana, Kuldeep Singh, Journal of Radioanalytical and Nuclear Chemistry, 330:1485–1495 (2021)22 Aug 2021. (IF-1.754) https://doi.org/10.1007/s10967-021-07954-y
- 19. Evaluation of natural radioactivity levels and 222Rn, 220Rn exhalation rate in the soil of the Himalayan belt of Uttarakhand, India, Poonam Semwal, Ankur Kumar, Kuldeep Singh, Manish Joshi, Tarun Kumar Agarwal and R. C. Ramola, Journal of Radioanalytical and Nuclear Chemistry (2021),330:1589-1599. 12 Sept 2021, (IF-1.754) https://doi.org/10.1007/s10967-021-07978-4
- 20. Assessment of physicochemical and radon-attributable radiological parameters of drinking water samples of Pithoragarh district, Uttarakhand, Prakhar Singh, O. P. Nautiyal, Manish Joshi, Ankur Kumar, Taufiq Ahamad, and Kuldeep Singh, Journal of Radioanalytical and Nuclear Chemistry, 330:1559–1570(2021)18 Oct.- 2021.(IF-1.754) https://doi.org/10.1007/s10967-021-08056-5
- 21. Comparative study of two different water sources in the aspect of radiological exposure to the local population of Bageshwar, India. Ankur Kumar, Devendra Singh, Poonam Semwal, Tushar Kandari,

- Kuldeep Singh, Manish Joshi & Prakhar Singh, Journal of Radioanalytical and Nuclear Chemistry ,331:1941–1949(2022) 1 march 2022.(*IF-1.754*) http://doi.org/10.1007/s10967-022-08238-9
- **22.** Effective dose estimation of radon, thoron and their progeny concentrations in the environs of Himalayan belt, India, P. Semwal, T. K. Agarwal, M. Joshi, A. Kumar, K. Singh, & R. C. Ramola, International Journal of Environmental Science and Technology, Volume 20, 4127-4138(2023)(*IF-3.519*), https://doi.org/10.1007/s13762-022-04118-7 online published on 18 April 2022.
- **23.** Radiological and hydrochemical attribution in groundwater of Haridwar District, Uttarakhand, India, Prakhar Singh, Ankur Kumar, Devendra Singh, O.P. Nautiyal, C.P. Saklani, Abhishek Joshi, Kuldeep Singh, Journal of Radioanalytical and Nuclear Chemistry, Published Online: 14 October 2023(*IF-1.754*) http://doi.org/10.1007/s10967-023-09188-6
- **24.** Assessment of exhalation rates of radon and thoron in soil from the Jaunsar-Bawar region of the Indian Himalayas, Ankur Kumar, Prakhar Singh, , Devendra Singh, Kuldeep Singh, Tushar Kandari, C.P. Saklani, Amar Deep, Journal of Radioanalytical and Nuclear Chemistry, Published Online: 29 February 2024. (*IF-1.754*) http://doi.org/10.1007/s10967-024-09407-8

Chapter Published in an Edited Book

- 1. Influence of Geophysical and Neotechtonic Activities on radon Concentration and Surface flux Rate in Kumaun Himalaya, India, Poonam Semwal, *Kuldeep Singh*, Preeti Pant, Tushar Kandari, Alok Sagar Gautam, a *chapter in a book* "Advances in Basic and Applied Sciences", pp.21-39, 2019. ISBN: 978-93-84866-90-7.
- 2. Study of mathematical Model for Decay Product Concentrations of Radon and Thoron in Indoor Environment, Poonam Semwal, Ankur Kumar, Kuldeep Singh, Tushar Kandari, Preeti Pant & Alok Sagar Gautam, *a Chapter in a book* "Air Quality, Climate Change and the Environmental Effects Referring to the Pandemic", pp. 61-73, 2021. ISBN: 978-93-84866-93-8

Research Publications in Conference Proceedings

- 1. **Theoretical Investigation of Potassium niobate pure and mixed crystals,** *Kuldeep Singh*, Vijendra Lingwal, S.C.Bhatt,N.S.Panwar and B.S.Semwal, Proceeding of the International Workshop on Preparation and chracterization of technologically important crystals, Feb. 28-March 2,2001, pp 392, NPL, New Delhi.
- 2. Variation of conductivity with temperature and frequency in sodium niobate pure and mixed system, *Kuldeep Singh*, Manish Uniyal, S.C.Bhatt, N.S.Panwar and B.S.Semwal, Proceedings of NCRTC- 2001, PP. 113-118.
- 3. Polarizability cole-cole plots for PSN (K1-xNaxNbO3) system, *Kuldeep Singh*, Manish Uniyal, S.C. Bhatt & B. S. Semwal, Proceedings of the DAE-BRNS National Laser Symposium –Dec. 19-21, 2001,pp. 105-106, CAT INDORE.
- **4.** DielectricProperties of Orthorhombic PSN (K1-xNaxNbO3) system, *Kuldeep Singh*, Manish Uniyal, S.C.Bhatt & B. S. Semwal, Proceedings of the DAE-BRNS National Laser Symposium Dec. 19-21, 2001,pp. 107-108, CAT INDORE.

Short Term courses or Training Programs Attended

- 1. School on Ultrahigh vacuum Techniques, 6-10, September- 1999, Solid State Physics Laboratory, New Delhi
- 2. International School on Crystal Growth Methods and Processes, 24 Jan-04 Feb.-2000, Crysatl Growth Centre, Anna University, Madras.
- **3. SERC School on Precesion Physical Measurement and Measurement Science,** 4-23, December 2000, National Physical Laboratory New Delhi
- **4. Introduction to Microprocessor and Interfacing**, 28 May 2 June- 2001, USIC, Garhwal University, Srinagar (Garhwal)
- **5. Preparation , Characterization and Experimental studies,** 7-22, June- 2001, Material Science Research Center, IIT Madras
- **6.** Course on "Direct Trainer Skills, 12-16, September-2005, Uttaranchal Academy of Administration, Nainital.
- 7. Faculty Development Progarm, 23 April 7 May- 2006, Department of higher Education

- Uttarakhand & ICFAI University Dehradun at Govt. P.G. College Rishikesh
- **8. 4- Week Orientation Program**, 3-30, April- 2007, UGC Academic Staff College H.P. University Shimla
- **9.** Edusat Training Program for Nodal Officers, 30 Nov. 1 Dec.-2010, USAC, Dehradun & ISRO with Department of Higher Education Uttarakhand at Doon University Dehradun.
- **10. One day Advocacy Program for Awareness on PC-PNDT Act**, 30th December- 2011, Women's Cell, MKP(P.G.) College Dehradun at Govt. P.G. College New Tehri.
- **11. Refresher course in Physics,** 28 Nov.- 17 Dec.-2011, UGC Academic Staff College, University of Rajasthan- Jaipur
- 12. National Training Programme on "RET Screen Software for Evaluation of Renewable Energy Projects, 22nd September- 2012, Department of physics, DAV(PG) College Dehradun, Uttarakhand
- **13. Refresher course in Quantum Mechanics**, 28 Nov.- 12 Dec.-2013, Department of Physics, IIT Roorkee
- 14. Radon Training Workshop 2014, 22 -26, Sept.-2014, Bhaba Atomic Research Center Mumbai
- **15. Training Program on "Professional Development of Teachers,** 15-20, March-2017, NIT, Kurukshetra, Haryana
- **16.** One Week Workshop on "Radiochemistry and Application of Radioscotopes, 17-23, February-2020, Department of Chemistry, Guru Nanak Dev University, Amritsar(Punjab)
- 17. 5 Days Faculty Development Programme in "R Programming" (Online), 15-19 June-2020., Uttarakhand Science Education and Research Centre, Department of Information & Science Technology, Govt. of Uttarakhand with IIT Mumbai, Spoken Tutorial & School of Computer Science & IT, Uttarakhand Open University, Haldwani
- **18. 4 days Gyanotkarsh Program**, 6-8 November 2023, Department of Higher Education Uttarakhand & UCOST Dehradun

Organized/Co-ordinated Programes/Conferences/Workshops

- 1. Organized a three days workshop as *Organizing Secretary* on "Development of low cost experiments to inspire inquiring spirit among students", Oct.- 28-30, 2013, At Govt. P.G. College New Tehri.
- 2. Organized a three days National Symposium as *Organizing Secretary* on "Mind, Matter and Mathematics: A Dialogue-2014", "March 12-14, 2014, HNBGU Campus Badshahi Thaul Tehri Garhwal.
- 3. Organized a three days First National Conference as *Organizing Secretary* on "Radiation Awareness and Detection in Natural Environment (RADNET-I)", June 15-17, 2015, HNBGU Campus Badshahi Thaul Tehri Garhwal.
- 4. **Co-Ordinated** Technical sessions during 9th USSTC-2015, 26-28 February-2015, at UCOST Dehradun.
- 5. Organized as Coordinator the World Earth Day Programme -2015, at Govt. P.G. College New, Tehri Garhwal.
- 6. **Co-Ordinated** Technical sessions during 10th USSTC-2016, 10-12 February-2016, at UCOST Dehradun.
- 7. **Co-Ordinated** Technical sessions during 11th USSTC-2017, 02-04 March-2017, at UCOST Dehradun.
- 8. Worked as a **Member of Local Organising committee** in organizing three days Second National Conference on "Radiation Awareness and Detection in Natural Environment (RADNET-II)", September 25-27, 2017 at GKV Haridwar.
- 9. **Co-Ordinated** Technical sessions during 12th USSTC-2018, 07-09 March-2018, at UCOST Dehradun.
- 10. **Co-Ordinated** Technical sessions during 13th USSTC-2019, 26-28 February-2019, at UCOST Dehradun.
- 11. Co-Ordinated Technical sessions during 14th USSTC-2020, 27-29 February-2020, at UCOST Dehradun.
- 12. Organised One day workshop as **Organizing secretary** on "Conservation of Renewable Energy Sources for sustainable development", December 2, 2019 at Govt PG College New Tehri.
- 13. Organised One day workshop as Organizing secretary on "Awareness on Intellectual Property

- Rights", December 3, 2019 at Govt. P.G. College New Tehri.
- 14. Organised One day **Webinar** as **Organizing Secretary** on the topic "कोविड-19 के दौर में चुनौतियाँ और अवसर" on 12 June-2020.
- 15. Organized International Webinar as **Organizing Secretary** on "**Impact of Covid-19 on Academic and Research Activities**" during 19-20 June-2020.
- 16. Organized three days Third National Conference(Online) as *Convener* on "Radiation Awareness and Detection in Natural Environment (RADNET-III), March 18-20, 2021, Organised by Department of Physics, Govt. P.G. College New Tehri & HNBGU Campus Badshahi Thaul Tehri Garhwal.
- 17. Organized three days First International Conference as *Convener* on "Radiation Awareness and Detection in Natural Environment (RADNET-IV), March 2-4, 2023, Jointly Organised by Dolphin PG Institute of Biomedical and Natural Sciences, Dehradun & Govt. Degree College Dehradun Shahar Dehradun.
- 18. **Chaired a session** during National Conference on Recent advances in Theoretical and Experimental Sciences(NCRATES-2023), 29-30 September 2023, organized by Bhakt Darshan Govt. P. G. College Jaiharikhal(Uttarakhand)
- 19. Organized a three days workshop as *Organizing Secretary* on "Development of low cost experiments to inspire inquiring spirit among students", Oct.- 28-30, 2013, At Govt. P.G. College New Tehri.
- 20. Organized a three days National Symposium as *Organizing Secretary* on "Mind, Matter and Mathematics: A Dialogue-2014", "March 12-14, 2014, HNBGU Campus Badshahi Thaul Tehri Garhwal.
- 21. Organized a three days First National Conference as *Organizing Secretary* on "Radiation Awareness and Detection in Natural Environment (RADNET-I)", June 15-17, 2015, HNBGU Campus Badshahi Thaul Tehri Garhwal.
- 22. Co-Ordinated Technical sessions during 9th USSTC-2015, 26-28 February-2015, at UCOST Dehradun.
- 23. Organized as Coordinator the World Earth Day Programme -2015, at Govt. P.G. College New, Tehri Garhwal.
- 24. **Co-Ordinated** Technical sessions during 10th USSTC-2016, 10-12 February-2016, at UCOST Dehradun.
- 25. Co-Ordinated Technical sessions during 11th USSTC-2017, 02-04 March-2017, at UCOST Dehradun.
- 26. Worked as a **Member of Local Organising committee** in organizing three days Second National Conference on "Radiation Awareness and Detection in Natural Environment (RADNET-II)", September 25-27, 2017 at GKV Haridwar.
- 27. Co-Ordinated Technical sessions during 12th USSTC-2018, 07-09 March-2018, at UCOST Dehradun.
- 28. Co-Ordinated Technical sessions during 13th USSTC-2019, 26-28 February-2019, at UCOST Dehradun.
- 29. Co-Ordinated Technical sessions during 14th USSTC-2020, 27-29 February-2020, at UCOST Dehradun.
- 30. Organised One day workshop as **Organizing secretary** on "Conservation of Renewable Energy Sources for sustainable development", December 2, 2019 at Govt PG College New Tehri.
- 31. Organised One day workshop as **Organizing secretary** on "Awareness on Intellectual Property Rights", December 3, 2019 at Govt. P.G. College New Tehri.
- 32. Organised One day Webinar as Organizing Secretary on the topic "कोविड-19 के दौर में चुनौतियाँ और अवसर" on 12 June-2020.
- 33. Organized International Webinar as **Organizing Secretary** on "**Impact of Covid-19 on Academic and Research Activities**" during 19-20 June-2020.
- 34. Organized three days Third National Conference(Online) as *Convener* on "Radiation Awareness and Detection in Natural Environment (RADNET-III), March 18-20, 2021, Organised by Department of Physics, Govt. P.G. College New Tehri & HNBGU Campus Badshahi Thaul Tehri Garhwal.
- 35. Organized three days First International Conference as Convener on "Radiation Awareness and

- **Detection in Natural Environment (RADNET-IV),** March 2-4, 2023, Jointly Organised by Dolphin PG Institute of Biomedical and Natural Sciences, Dehradun & Govt. Degree College Dehradun Shahar Dehradun.
- 36. **Chaired a session** during National Conference on Recent advances in Theoretical and Experimental Sciences(NCRATES-2023), 29-30 September 2023, organized by Bhakt Darshan Govt. P. G. College Jaiharikhal(Uttarakhand).

Delivered Talk/Paper presentation in Seminars/Workshops/Symposium

- 1. Presented paper in "DAE-BRNS National Laser Symposium(NLS –2001)" held at Centre for Advanced Technology(CAT) Indore, during 19-21, December- 2001.
- **2.** Presented paper National Seminar on "**Social Discrimination**", held at Ram Nagar P.G. College Ram Nagar, Barabanki(U.P.) during 13-14, March-2011.
- 3. Presented paper in National seminar on "Recent Trends in Micro and Macro Physics (NSRTMMP-2011)", held at Govt. P.G.College Gopeshwar(Chamoli) during 12-13, October-2011.
- **4.** Presented paper in National Conference on "Recent Trends in Interdisciplinary Research and Astrophysics Space Science(NCRTIRASS-2012)", held at MB PG College Haldwani, Uttarakhand during 3-4, November-2012.
- 5. Presented paper in National seminar on "Recent Development in Physics & Prosperity in Solar Physics- Space Science(NSRDPPSPSS-2014)", held at MB Govt. PG College Haldwani(Nainital) during 27-28, December-2014.
- **6.** Presented paper in National Seminar on "New Horizons in Theoretical and Experimental Physics (NHTEP-2015)", held at Govt. PG College Gopeshwar, Chamoli during 19-20, February-2015.
- 7. Presented paper in "5th International Geo-Hazard Research Symposium", held at Taiwan during 17-20, October-2016.
- 8. Presented paper in "XXXII Annual IAPT Convention 2017 and National Symposium on Recent Trends in Physics at Different Scales", held Gurukula Kangri Vishwavidyalaya Haridwar, during, 29-31, October-2017.
- **9.** Presented paper in **International Conference** on "Climate Change and Disaster Risk Reduction" held at HNB Garhwal University SRT campus Badshahi Thaul, Tehri Garhwal, during 26-28, October 2018.
- 10. Presented paper in International Conference on "Contemporary Issues of Climate Change, Conservation of Biodiversity and Natural Resources in Himalayan Environment", held at Govt. P.G. College New Tehri during 14-16, November-2019.
- **11.** Delivered **Invited talk** on "**Ancient and Modern Science**" during National Workshop on "Science and Mathematics: An Augmentation from Ancient to Contemporary India" organized by VSK Govt. P.G. College Dakpathar, Dehradun, 1-2 March, 2024.

Participation Seminars/Workshops/Symposium/Webinars

- 1. Participated in XIth National Seminar on "Ferroelectrics and Dielectrics" organised by Department of Physics, University of Jammu, Jammu during 1-3, November- 2000.
- 2. Participated in International conference on "Advanced materials", organised by Department of Physics, University of Meerut, Meerut during 26-28, December-2000.
- 3. Participated in International workshop on "Recent advances in Nanotechnology of Magnetics fluids", organised by National Physical Laboratory, New Delhi during 22-24 January-2003.
- 4. Participated in Workshop on "Physics from Atom to Galaxy: Theoretical and Technical Status", Organised by Department of Physics, HNB Garhwal University, Srinagar(Garhwal) during 9-11, October-2006.
- 5. Participated in National workshop on "Development of reservoir fisheries and Conservation of Aquatic Biodiversity with Particular Reference to Tehri Dam Project(Uttarakhand).", organised by Department of Zoology, Govt. P.G. College New Tehri during 1-2, December- 2007.
- 6. Participated in National Seminar on "RREST & Workshop on Solar Photovoltaic Systems", Organised by Department of Physics, HNB Garhwal University, Srinagar(Garhwal) during 26-28 March-2008.

- 7. Participation in Regional Seminar on "Intellectual property and Innovation management in Knowledge era", organised by the corporation in collaboration with UCOST Dehradun, during 12-13, August-2010.
- 8. Participated in National Conference on "Conservation of Aquatic Biodiversity, Development of Cold Water Fisheries Fish Biotechnology and Emerging Trends in Fresh Water Environments", organised by Department of Zoology, Govt. P.G. College New Tehri during 25-27 November 2010.
- 9. Participated in 7th International Workshop on "Neutrino-Nucleus interactions in the Few-Gev Region(Nuint11)", organised by Department of Physics, HNB Garhwal University Srinagar Garhwal during 7-11, March-2011.
- 10. Participated in one day seminar on "Environment and Livelihood", jointly organised by National Bank for Agriculture and Rural Development, Tehri Garhwal & Department of Geography, Govt. P.G. College New Tehri, on 16 September-2011.
- 11. Participated in Seventeenth National Symposium on "Solid state Nuclear track Detectors and Their Applications(SSNTD-17)", Organised by Department of Physics, The M.S.university of Baroda, Varodara, Gujrat during 17-19, October-2011.
- 12. Participated in National Conference on "Role of Mathematical and Physical sciences in Engineering and Technology", organised by Department of Mathematics and Physics, Govt. Degree College Karanprayag(Chamoli) during 21-22, October-2011.
- 13. Participated in Workshop on "Advances in Physics & Role of Experiments in Physics Teaching", organised by Department of Physics, GKV Haridwar on 05 November-2011.
- 14. Participated in Workshop on "Role of Low cost in Physics Teaching", organised by DAV Centenary Public School, Jagjeetpur, Khankhal, Haridwar on 06 Nobember-2011.
- 15. Participated in the state level workshop on "Traditional Knowledge systems and its various dimensions", organised by Govt. P.G. College New Tehri, Tehri Garhwal on 19 March-2012.
- 16. Participated in "Third International Geo-Hazard Research Symposium(IGRS-2012)", organised by Department of Physics, HNB garhwal University Badshahi Thaul Campus Tehri Garhwal during 10-14 June-2012.
- 17. Participated in Workshop on "The Physics and Mathematics of the Universe", organised by Gurukul Kangri Vishwavidyalaya, Haridwar(Uttarakhand) during 11-12, March-2013.
- 18. Participated in National Seminar on "Uttarakhand Disaster: Contemporary Issues of Climate Change and Development with a Holistic Approach", organised by Sri Dev Suman Uttarakhand University, Badshahi Thaul, Tehri Garhwl during 25-27 October-2013.
- 19. Participated in Seminar on "Light & Light Based Technologies(SLT-2016)", organised by Optical Society of India & Doon University Dehradun during 13-14, February-2016.
- 20. Participated in Workshop on "An interactive Programme Among University Teachers, School teachers and Students for Encouragement of Science Education and Research in Uttarakhand", jointly organised by Department of Physics, Govt. P.G. College New Tehri & HNBGU Campus Badshahi Thaul Tehri Garhwal during 28-29 February-2016.
- 21. Participated in Workshop on "Smart Materials for Future Applications(SMFA-2016)", organised by Department of Applied Science & Humanities, THDC Institute of Hydropower Engineering & Technology, Tehri Garhwal during 12-13 May-2016.
- 22. Participated in Workshop on "Low Cost Experiments & Hands on Training in Physics", by Department of Physics, GKV Haridwar(Uttarakhand) during 19-20, September-2016.
- 23. Participated in National Conference on "Holistic Approach Towards Quality Enhancement in Higher Education", organised by IQAC Cell, Pt. L.M.S. Govt. P.G. College Rishikesh during 29-30, January-2019.
- 24. Participated in International Conference on "Material Science and Applications(ICMSAA-19)", organised by Department of Physics, HNB Garhwal University(A Central University) Srinagar Garhwal, Uttarakhand during 25-27 November-2019.
- 25. Participated in an E- International Symposium on "Synthesis and Characterization of Smart Materials and Their Potential Applications" organised by University School of Basic and Applied Sciences, Guru Govind Singh Indraprastha University New Delhi during 14-17 June-2020.

- 26. Participated in an International E-Conference on "Recent Advances in Physics: A Promise to Society", organized by Govt. P.G. College Bazpur, Uttarakhand during 24-25 June-2020.
- 27. Participated in one day seminar on "North west & Central Himalayan Natural Disasters", jointly organized by Vigyan Bharti(Uttarakhand) and Doon University Dehradun on 26 March-2023.

Awards

Conferred Young Scientist award-2013 by Uttarakhand State Council for Science & Technology(UCOST) Dehradun.

Dr. KULDEEP SINGH
Professor & Head
Department of Physics
Govt. Degree College Dehradus
Debradus