

Name: Dr. Manbirendra Singh

Subject: Physics

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Designation: Assistant Professor

Qualification: **M.Sc., Ph.D.**

Post-graduation: Nuclear and Particle Physics

Ph.D.: Radon Radiation (Awarded 1998)

Title of Thesis: **Radon pollution studies in indoor and outdoor environments using nuclear track detectors.**

Highest Qualification	Ph.D
Area of Research	Radon pollution study in the Environment
International Publications	09
National Publications	17
Seminar/Sympo./Conf. attended	32
No. of Ph.D Scholar	01
Orientation Programme	01
Refresher Courses	03
Faculty development Programmes	02
Teaching Experience	22 years
Research Experience	25 years

List of Publications:

1. Preliminary measurements of radon concentration in mud houses using LR-115 plastic track detector. Ramola, R.C., Rawat. R.B.S. and **Kandari, M.S.** 4th Nat. Sympos. On Environment, Madras (1995). Pp. 199-200.
2. Estimation of risk from environmental exposure to radon in TehriGarhwal. Ramola, R.C., Rawat. R.B.S. and **Kandari, M.S.** Nucl. Geophys. 9 (1995). 383-386.
3. Indoor radon level in TehriGarhwal. Ramola, R.C., Rawat. R.B.S. and **Kandari, M.S.** 9th Nat. Sympos. On SSNTDs, Bombay, (1995). Pp. 98-100.
4. Calibration of LR-115 plastic track detector for environmental radon measurements. Ramola, R.C., Rawat. R.B.S., **Kandari, M.S.**, Ramachandran, T.V., Eppen, K.P. and SubbaRamu, M.C. J.Indoor. Built. Environ. 5, (1995). 364-366.
5. The study of radon in dwellings of TehriGarhwal. Rawat, R.B.S., **Kandari, M.S.** and Ramola. R.C. Proc. X. Sympos. On SSNTD-95., Kurukshetra. (1996) pp. 8-9.
6. Assessment of health risk due to exposure of radon and its daughter products in lower atmosphere. Ramola, R.C., Rawat. R.B.S. and **Kandari, M.S.** Current Science Vol. 73. (1997). Pp. 771-774

7. Measurements of indoor radon level around Uttarakashi and PauriGarhwal areas using nuclear track detector technique. Ramola, R.C., Rawat. R.B.S., **Kandari, M.S.**, Ramachandran, T.V. and Choubey, V.M., Ind. J. Environ. Proc. 17. (1997). 516-519.
8. Study of indoor radon levels. Ramola, R.C., Rawat. R.B.S., **Kandari, M.S.**, Ramachandran, T.V. and Choubey, V.M., J.Radiat. Protection and Environ. 20. (1997). 198-200.
9. Measurement of radon in drinking water. Ramola, R.C., Rawat. R.B.S., **Kandari, M.S.**, Ramachandran, T.V. and Choubey, V.M., Radiat. Protection. Dos. Vol. 74, 1/2; (1997). Pp. 103-105.
10. A study of seasonal variation of radon levels in different types of houses. Ramola, R.C., Rawat. R.B.S., **Kandari, M.S.**, Ramachandran, T.V. and Choubey, V.M., Ind. J. Environ. Radioactivity. 39. (1998). Pp. 1-7.
11. Probable health hazard effect due to exposure of radon and its daughters in Himalaya environment. Ramola, R.C., Rawat. R.B.S., **Kandari, M.S.** and Ramachandran, T.V. Proc. 12th Nat. Sympos. On Radiation Physics, Jodhpur. (1998). Pp. 250-252.
12. Measurement of radon, thoron and their daughter products in Garhwal homes. Bist, R.K., Negi. M.S., **Kandari, M.S.**, Ramola, R.C., Choubey, V.M., and Ramachandran T.V. Proc. XIth Nat. Sympos. On SSNTD-98,at Amritsar (1998). Pp. 256.
13. Simutaneous measurement of calibration factor F between radon, thoron and their progeny in indoor atmosphere using solid state nuclear track detector. Ramola, R.C., Rawat, R.B.S., **Kandari, M.S.**, Negi, M.S., Choubey, V.M. and Ramachandran T.V. International Conference on SSNTD. (2000). J. Radiation Measurement.
14. Level radon, thoron in underground Power House and neighboring indoor atmosphere in Tehri Dam Project. Negi, M.S., **Kandari, M.S.** and Ramola, R.C. Vol., NSC-12 (2003). Pp. 171.
15. Estimation of environmental radon level in Garhwal Himalaya. **Kandari, M.S.**, Rawat, R.B.S. and Ramola, R.C. International Conference on international radiation dosimetry: occupational workers and public (IC-IRDOP-95). (1995) Pp. 59.
16. Measurement of environmental radon concentration in Garhwal Himalaya. **Kandari, M.S.**, Rawat, R.B.S. and Ramola, R.C. Nat. Conf. On Accelerator and low level radiation safety. New-Delhi, (2009). Pp. 77.
17. Analysis of seasonal variation of indoor radon conenctratation in TehriGarhwal, Northern India. **Kandari, M.S.** and Ramola, R.C. Ind. J. Phy. (2010) Vol.8, Pp. 1019-1023.
18. Garhwal Himalaya nein radon kaparyavarneeyaaadhyan. **Kandari, M.S.** Yadav, M. and Ramola , R.C. Ind. Nat. sci. Congress in Indian Languages, New-Delhi. (2010).
19. Variation of radon gas concentration in different types of soil in the foothill of Garhwal Himalayas. **Kandari, M.S.** and Khanduri, Preeti. CONIAPS-XII, (2011). Pp.150.
20. Science education and its impact on the society to sustain the environment. **Kandari, M.S.** Nat. Seminar, 7-8 Feb. 2015.
21. Radon radiation and its impact in the environment. Kandari, M.S., RADNET-II, GurukulKangri University, Haridwar. 25-27 Sept. 2017
22. Study of radon concentration in fly ash nearby some sugar mills of Uttar Pradesh and Uttarakhand state Sandeep Kumar, R. Kumar, Kandari, M.S.,K. Vats and Rawat, R.B.S.. July to December 2022 ISSN No. 2277-7067 UGC CARE. Pp.75-84 Vol. IX., 11.

Seminars/Symposium/Conferences (Attended):

1. National workshop on ubiquitous radon (NWSUR-94). B.A.R.C., Nov. 22-24, 1994, Bombay.
2. Fourth national symposium on environment (NSE-4) at Anna University, Madras and IGCAR, Kalpakkam. Feb. 7-10, 1994. Madras.
3. International conference on International Radiation Dosimetry occupational workers and public. Feb. 7-10, 1995, Bombay.
4. 10th national workshop on SSNTDs at SRT, Campus Tehri, TehriGarhwal, March. 27-30, 1997.
5. 12th National symposium on environment. SRT, Campus Tehri, TehriGarhwal, June.5-7, 2003.
6. NSC acquaintance Programme. HNB. University, Badshahithaul campus. October 10, 2003.
7. National workshop on SSNTD, at Swami Sukhdevanand P.G. College, Shahjahanpur, (UP). Dec. 14-15,2007.
8. 15th National symposium on SSNTDs. HNB. University, Badshahithaul campus. June, 21-23. 2007.
9. National conference on Accelerator and low level radiation safety, New-Delhi, Nov. 18-20, 2009.
10. Physics Olympiad exposure camp, HomiBhabhacentre for Science Education at TIFR, March, 8-10, Mumbai (2010).
11. Uttarakhand state aids control society, 107 Chander Nagar, Dehradun, August, 26, 2008.
12. National science in Indian languages, N.P.L., New-Delhi. Nov. 22-23, 2010.
13. 13th International conference of the International Academy of Physical Sciences. Univ. of Petroleum and Energy Studies, Deradun, June 14-16, 2011.
14. Workshop on development of low cost scientific experiments to inspire inquiring spirit among students. Dept. of Physics, Govt. P.G. College New Tehri, TehriGarhwal (U.K.) Oct. 28-30, 2013.
15. Educational satellite programme. Uttarakhand Space Application Centre (USAC) Dehradun, Dr, PDBH. Govt. P.G. College Kotdwar. April. 30, 2012.
16. National seminar on role of information and communication technology in socio-economic and educational development. (USAC) Dehardun, Govt. P.G. College Kotdwar, Dec. 23-24, 2013.
17. National workshop on Building awareness on intellectual property rights. 19 September 2015. Govt. P.G. College Kotdwar and UCOST, Dehradun.
18. Workshop on College teacher education (CTE), Edusat to make learning effective. Govt. P.G. College Kotdwar. Nov. 25-29, 2014.
19. Workshop on College teacher education (CTE), One day orientation programme. Govt. P.G. College Kotdwar. Nov. 17, 2014.
20. National seminar on NCT organized by Govt. P.G. College Kotdwar. Feb. 8-9, 2014.

21. National seminar on national and regional perspective for quality teacher education: ways and means. Govt. P.G. College Kotdwar (UGC sponsored) & UCOST Dehradun. 7-8 Feb. 2015.
22. National workshop on utilization of remote sensing, geographical information system and information communication technology in modern times: in respective to Uttarakhand. Govt. P.G. College Kotdwar and U-SAC Dehradun., 30 November 2016.
23. Refresher course in science: As a resource person (CTE), Govt. P.G. College Kotdwar. 28 Nov-02 Dec. 1016.
24. Workshop on water conservation and water quality management using GIS/GPS, Uttarakhand science education research centre (USERC) &Uttarakhand Space Application Centre (USAC), Dehradun. Govt. P.G. College Kotdwar, Feb. 22, 2017.
25. National seminar on India and the fourth industrial revolution: current problems and forecasting challenges. UPSA & HRDC Kumon University, Nainital & UCOST, Dehradun. 17-18 Dec. 2018
26. Webinar on Riverine culture associating to the dissociated community for river. Indira Gandhi Centre for Art, Ministry of Culture. Govt. of India, New-Delhi-1, 5th June 2020.
27. Five day FDP on Innovative Teaching Learning Methodologies, Coimbatore Institute of Technology (PMMMNMTT, Department of Higher Education, MHRD, Gol), 6-10 June 2020.
28. Two days National webinar on Innovation, technology and quality in distance education organized by Uttarakhand Open University, Haldwani on 4 and 5 July 2020.
29. Webinar on introduction of differential equation and its application organized by Dr. S.S.N. Govt. P.G. College Karanprayag, Chamoli on 29 July 2020.
30. Two days national webinar on Recent trends in physics organized by NanhiPariSeemant Engineering Institute, Pithauragarh, Uttarakhand(TEQIP-III) held on August 18th and 19th, 2020.
31. One day FDP webinar on Quantum Physics in visible range organized by Pratap University, Jaipur (Rajasthan) 21 Nov. 2020.
32. National seminar on Self Reliant India Prospects and Challenges, G.D. Mahila Mahavidhyalaya, Budaun. 28-29 Aug. 2022.