

CURRICULAM VITAE



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Personal Information

Date of Birth	April 09, 1951
Father's Name	S. Chanan Singh
Nationality	Indian
Language Proficiency	English, Punjabi, Hindi
Permanent Address	138 Dashmesh Avenue, PO: R&S Mills, Amritsar-143104 India

Educational Qualifications

Degree	Year	University	Division
B.Sc. (Phys, Chem Math.)	1972	Pbi University, Patiala	First
M.Sc. Physics	1974	Pbi University, Patiala	First
Ph.D. Physics	1979	Pbi University, Patiala	-

Fellowship Awards

JRF	CSIR, New Delhi	1974-76
SRF	CSIR, New Delhi	1976-78
PDF	CSIR, New Delhi	1978-79

Visiting Professor DAAD programme	University of Kiel Germany	1993-94
Visiting Hon. Professor	University of Wollongong Australia	2007-till date
Bharat Jyoti Award	By India International Friendship Society (IIFS) New Delhi in Dec 2010	

Academic Experience

Teaching Experience (PG courses)	32yrs														
Research Experience	37 yrs														
Specialization	Environmental Radioactivity & Pollution Nuclear Geophysics Radiation Physics Seismotectonics & Earthquake studies Applied Material Science and nanotechnology														
Research Publications	225														
Popular Articles in News Papers/News Reports	26														
Research Supervision	<table> <tr> <td>RA</td> <td>01</td> </tr> <tr> <td>PDF</td> <td>01</td> </tr> <tr> <td>Ph.D Awarded:</td> <td>25</td> </tr> <tr> <td>Registered:</td> <td>04</td> </tr> <tr> <td>Enrolled:</td> <td>03</td> </tr> <tr> <td>M.Phil Awarded:</td> <td>18</td> </tr> <tr> <td>M.Sc. Awarded:</td> <td>63</td> </tr> </table>	RA	01	PDF	01	Ph.D Awarded:	25	Registered:	04	Enrolled:	03	M.Phil Awarded:	18	M.Sc. Awarded:	63
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Enrolled:	03														
M.Phil Awarded:	18														
M.Sc. Awarded:	63														

Administrative Experience

Head of Physics Department, GNDU Amritsar	(1992-95)
Head, University Services and Instrumentation center GNDU	(1992-95)
Chairman, Research Degree Committee, GNDU	(1992-95)
Chairman, Board of Studies, GNDU	(1992-95)
Dean Faculty of Sciences, GNDU, Amritsar	(2002-04)
President Nuclear Track Society of India	(2004-2006)
Patron Nuclear Track Society of India	(2007-Till date)
Dean Academic Affairs GNDU Amritsar	(2010-2011)

Members of academic bodies/Societies

Member, Board of Studies, Punjabi University, Patiala (1992–1995).
Member Research Degree Committee, G.N.D.U., Amritsar (1984–2011).
Member Research Degree Board, G.N.D.U., Amritsar (1991 – 2011).
Member, Academic Council, G.N.D.U., Amritsar (1992–1995, 2002-04)
Member, Senate and Syndicate G.N.D.U., Amritsar (2010- 2011)
Expert Member, Faculty of Sciences, Punjabi University Patiala (2011-2013)
Executive Member of the International Nuclear Track Society (INTS).
Association of Exploration Geophysicists (AEG).
Indian Association of Physics Teachers (IAPT).
Indian Chapter of International Centre for Theoretical Physics (ICTP), Italy.
Indian Society for Radiation Physics (ISRP).
Indian Association for Radiation Protection (IARP)
Member International committee on Rare Gas Geochemistry.
Member APEC Cooperation for Earthquake Simulation.

Worked as Associate Editor for the journals:

Geochemical Journal (Japan)
Asian Journal of Physics
Journal of Geology and Mining Research
International Journal of Theoretical and Applied Sciences (IJTAS)
Journal of Earth and Space Physics

Reviewers/ Referee for journals:

Radiation Measurements
Journal of Environmental Radioactivity
Environment International
Health Physics
Atmospheric Physics
Journal of Environment Monitoring and Assessment
Indian Journal of Pure and applied Physics
Radiation Effects and Defects in Solids

Research Projects as Principal Investigator

1. CSIR Research Scheme Radon-Thoron Estimation in Soils (Radiation Physics). No. B 7520/93/EMR-11 dated 27-06-1983. (Project Grant about 9 lac)
2. DST Research Project Earthquake Prediction using Radon Signals No. ES/23/014/86 (Project Grant about 9.5 lac)
3. Radon Pollution Studies in Human Environment a Research Project Sanctioned, by Ministry of Environment & Forest, Govt. of India. No. 19/69-89-RD dated 26-03-92 (Project Grant about 9 lac)
4. CSIR Research Scheme Analysis of uranium and some other heavy metals of toxicological significance in water samples. No 01 (1716) / 01/ EMR -II dt 26.5.001(Project Grant about 10 lac)
5. NSC Project entitled “Structural, Optical and Etching Studies of Heavy Ion Irradiated Natural and Artificial Silicate Glasses”. Ref: NSC/XIII.7/UFUP-38308/2781, dated Aug 29,2005. (Project Grant about 3 lac)
6. DST, New Delhi - Major Research Project entitled “Seismotectonic Studies and

- Health Risk Assessments in the Himalayas with Special Emphasis on Radon and Helium Emission”, No. DST/23(476)/SU/2004. (*Project Grant about 82 lac*)
7. IUAC (NSC) project entitled “Nano/Micro wire synthesis on semiconducting substrate” No IUAC/XIII.3A/1270 dated Aug 17,2006. (Project Grant about 3 lac)
 8. IUAC (NSC) project entitled “The study of electrical optical and structural properties of irradiated conducting polymers” No.IUAC/XIII.3A/1260 dated Aug 17, 2006. (Project Grant about 3 lac)
 9. DST research project entitled “Fault delineation studies using soil-gas method as a proxy to characterize active tectonic areas along major and neotectonic fault systems in NW Himalayas, India”.In collaboration with the Department of Earth sciences,National Taiwan University,Taiwan. (Project Grant about 4 lac).
 10. IUAC (NSC) project entitled “Radiation induced Modifications in Poly (Lactide-Co-glyclide) 50-50 Polymer.” No IUAC/XIII.7/UFUP-46304-1517 dated Aug, 2009. (Project Grant about 3 lac).
 11. IUAC (NSC) project entitled “Radiation Induced optostructural modifications in Borosilicate glassess” No IUAC/XIII.7/UFUP-463031518 dated Aug, 2009. (Project Grant about 3 lac).
 12. DAE (BRNS) project entitled “Study of uranium in different environmental matrices in the state of Punjab No. 2009/36/75-BRNS/2517 dated December 2009.(Project Grant about 75 lac)
 13. DST project entitled “Nano/micro wire synthesis on semiconducting substrate and characterization”DGrant/189/DST 2010 (Project Grant 32 lac). Project is for three years.
 14. DST project entitled “Study of active fault and earthquake monitoring using geochemical methods in tectonically active regions of NW Himalayas and Taiwan” under India-Taiwan Programme of Cooperation in Science and Technology for three years with effect from 2010.
 15. BRNS Project entitled “Setting up of a nodal calibration center at Guru Nanak Dev University Amritsar to Strengthen the Radon Studies in the state of Haryana, rajasthan and Punjab” 2010 (Project Grant about 50 lac)
 16. BRNS Project entitled “A follow up study of the radon, thoron and their progeny measurements in the dwellings of Himachal Pradsh and HHP regions of Tosham, Haryana ” 2010 (Project Grant about 26 lac)
 17. MoES Project entitled “Geochemical precursory studies for earthquake prediction and Fault delineation in NW Himalayas with special emphasis on radon and helium emission”. Vide letter No. MoES/P.O.(Seismo)/1(66)/
 18. MoES Project entitled “Setting-up and maintenance of a permanent GPS station at Amritsar, Panjab and Hissar Haryana.” Vide letter No. MoES/P.O.(Seismo)/1(98)/2010 (Project Grant about 64 lac)

International/National Research Collaborations:

1. Department of Earth sciences, National Taiwan University, Taiwan
2. Department of Earth sciences, University of Wollongog, Australia
3. Indo-German Exchange Programme
4. Inter University Accelerator Center, New Delhi
5. Department of Geology, Punjab University, Chandigarh
6. Department of Geology, P.G. College, Dharmshala
7. Remote Sensing Centre, Shimla
8. Wadia Institute of Himalayan Geology, Dehradun
9. Thapar Deemed university of Engg. And Technology, Patiala
10. National Institute of Engg. And Technology, Jalandhar
11. National Institute of Engg. And Technology, Kurukshetra

*Research Supervision: (Ph.D Degree, Physics)

Sr. No.	Name of the Student (Year of award)	Topic of Research Degree
1.	Narinder Paul Singh (1986)	Geochemical Exploration of Uranium using Solid State Track Detectors.
2.	Manwinder Singh (1986)	Radon Studies for Uranium Prospection using Solid State Track Detectors.
3.	Amanjit Singh Sandhu (1987)	Anisotropic Track Etching and Annealing in Crystalline Minerals and Applications in Fission Track Dating.
4.	R.C. Ramola (1989)	Radon Studies for Earthquake Prediction, Uranium Exploration and Environmental Pollution using Nuclear Techniques.
5.	Lakhwant Singh (1990)	Etching and Annealing Studies of Heavy Ion Tracks in Minerals and Application in Fission Track Dating.
6.	Jaspal Singh (1995)	Environmental Radon Pollution Studies using Solid State Nuclear Track Detectors.
7.	Narinder Kumar Chandel (1998)	Distribution of Asteroids, Comets and their Common Origin
8.	Jatinder Kumar (1999)	Radon Studies in the Environs of some Radioactive Areas of Himachal Pradesh, India.
9.	Rajeev Malhotra (2000)	A Study of Uranium Uptake in Plants and Environmental Radon using Solid State Nuclear Track Detectors.
10.	Baldev Singh (2001)	Uranium, Radium and Radon studies in the Environs of some Areas of Himachal Pradesh using Solid State Nuclear Track Detectors.
11.	Ajay Kumar (2002)	The Study of Natural Radioactivity in Building Materials and Radon Level in Dwellings.
12.	Mukesh Kumar 2005	The analysis of uranium, radon and some other heavy metals of toxicological significance in environmental samples.
13.	Sangeeta Prasher 2005	The Study of Radiation Induced Modifications in Some Polymeric Track Detectors.

14.	Dinesh Kumar Sharma 2006	Radon studies in the environs of Nurpur area, Kangra district, Himachal Pradesh, India with special emphasis on the tectonics of the area.
15.	Asha Rani 2006	Physico-chemical investigations in the environmental samples with special emphasis on uranium, radon and heavy metals determination for health risk assessments.
16.	Manmohan Singh 2006	Natural ambient radioactivity levels at some areas of Punjab and Himachal Pradesh, India.
17.	Rohit Mehra 2006	Environmental radioactivity studies in Malwa region of Punjab.
18.	Manish Dogra 2008	Geology and Geochemistry of the Granitoids of the Dharamshala Region with Emphasis on the Radon Concentration in the Eco-System
19.	Joga Singh 2008	Study of Environmental Radioactivity around the upper shivaliks of KalaAmb, Nahan and Morni Hills, India.
20.	Amanpreet Kaur Sandhu 2008	Radiation Induced Modifications in some natural and Artificial silicates glasses
21.	Neerja 2008	Radiations Effects on Etching and annealing kinetics of ion tracks in Polymers.
22.	Harmanjit Singh 2008	Environmental Radioactivity around the Tusham Ring Complex
23.	Arvind Kumar 2009	Earthquake precursory studies in NW Himalayas with special emphasis on radon emission.
24.	Sandeep Mahajan (2010)	Seismotectonic and fault delineation studies in NW Himalayas with special emphasis on radon and helium emission.
25.	Naveen Thakur (2010)	A Study of Elasto-Thermo Diffusive Waves in Semiconductor Materials.
26.	Jaskiran Kaur (Registered)	Synthesis and Characterization of Nano/Micro Metallic Structures on Semiconductor Substrates.
27.	Ramandeep Kaur Dhillon (Registered)	The effect of Heavy Ions and Gamma Irradiations on the optical and structural properties of some conducting and non conducting polymers
28.	Bhupinder Singh (Registered)	Environmental radioactive study of some parts of Northern Punjab (India) for health risk assessments
29.	Sanjeev Kumar (Registered)	Environmental Radioactivity and physicochemical investigations in some areas of south-western Punjab, India for health risk assessment
30.	Ravneet kaur (Registered)	Effect of gamma and heavy ion irradiations on the structural and optical properties of heavy metal oxide Boro-silicate glasses
31.	Manpreet Kaur (Enrolled)	Radiation induced modifications on poly (D,L-Lactide-co-Glycolide) polymer
32.	Sukhnandan Kaur (Enrolled)	Radiation induced modification in minerals.

Research Supervision (M.Phil Degree Physics projects)

1.	Dilbag Singh (1984)	A Study of Track Etch Anisotropy in Apatite.
2.	H.S. Ghuman (1985)	The Measurement of Radon Emanation Rates for some Rock Specimens and Building Materials using Radon Emanometry and LR-115 Plastic Track Detector.
3.	Harpal Singh (1985)	Application of Plastic Track Detector in Thermal Neutron Dosimetry and Boron Estimation in Plants.
4.	Sukhjeet Kaur (1985)	Uranium Estimation in some Dental Materials and Natural Teeth using SSNTD.
5.	Lakhwant Singh (1986)	Fission Track Dating and Uranium Estimation in Copper Ore Formations of Rajasthan and Bihar States, India
6.	Arvinder Kaur (1987)	A Study of Uranium Uptake in Plants.
7.	Balwinder Singh (1988)	The Effect of Gamma Irradiations on Etching Characteristics of Some Solid State Nuclear Track Detectors.
8.	Jaspal Singh (1987)	Etching Characteristics of CR-39 Plastic Track Recorders.
9.	Baljinder Singh (1988)	Heavy Ion Track Etch Kinetics in Lexan Plastic Track Recorder
10.	Kavita Mahajan (1989)	Radon Diffusion Study in Soil.
11.	Seema Dorga (1991)	The Effect of Infrared Radiations on Plastic Track Detectors.
12.	Sukhwinder Singh (1992)	A Study of Radon Diffusion through Hydrocarbon.
13.	Kunwar Rajiv (1996)	Annealing Correction to Fission Track Age, A New Approach.
14.	Jatinder Kumar (1993)	Radon Pollution Studies in the Environs of Hamirpur Area (Himachal Pradesh)
15.	Rajeev Malhotra (1993)	Uranium Estimation using Fission Track Technique
16.	Manpreet Kaur(2009)	Effect of annealing on optical and structural properties of heavy ion irradiated kapton-H polymer
17.	Harmanmeet Kaur (2010)	Template based synthesis of copper nanowires
18.	Komal Saini (2010)	Effect of Li ⁺³ ion on structural and optical properties of Brosilcate glasses

Research Supervision M.Sc. Projects

1	Amanjit Singh Sandhu (1983)	Fission Track Dating, Uranium Estimation and Annealing Studies in Some Micaceous Minerals of Andhra Pradesh, India.
2	Vipin Kumar (1985)	A Comparison of track Etching Efficiency of Some Solid State Track Detectors.
3	Harpreet Singh (1986)	Laboratory Experiments on Solid State Track Recorders.
4	Kavita Mahajan (1986)	Effect of varying Cylindrical Geometry on Radon Detection.
5	Kunwar Rajiv (1988)	Etching and annealing characteristics of fission tracks in Hornblende.
6	Rajbir Kaur (1988)	The Effect of Infrared Radiations on Etching Parameters in Sodalime Glass Track Detectors.
7	Sukhjinder Singh Sandhu (1990)	Comparison of Track Etching Parameters in some Plastic Track Recorders.
8	Rajwinder (1990)	The Effect of Etchant Concentration on the Etching Characteristics of Fission Track Recorder.
9	Mona Bedi (1990)	Uranium Trace Analysis in Some Alloys using Fission Track Technique.
10	Inderpreet Singh Guman (1991)	Resistivity Survey for Groundwater.
11	Satwant Kaur (1991)	Determination of Lead Concentration in Rock Samples by using Selective Gamma-Gamma Method.
12	Lakhwinder Singh (1991)	Radon Studies for Environmental Pollution using LR-115 Plastic Track Detector.
13	Anand Kumar Sharma (1991)	Earthquake Prediction using Radon Signals.
14	KanwarParudaman Singh (1994)	A Study of Lognormal Distribution of Radon in Soil at Amritsar using Radon Emanometry.
15	Rajeev Sharma (1994)	Radon Measurements in some Buildings and Soil of Guru Nanak Dev University Campus, Amritsar.
16	Manisha Gupta (1995)	The Effect of Infrared Radiations on Lexan Track Detector.
17	Mahender Kumar Sharma (1996)	Use of Lognormal Distribution Pattern of Radon in the Soil for the Identification of Radioactive Anomaly.
18	Nirupma (1996)	Measurement of Radon Exhalation Rate from a Radioactive Rock Specimen of Himachal Pradesh using Radon Emanometry.
19	Nirupma (1996)	Measurement of Radon Exhalation Rate from a Radioactive Rock Specimen of Himachal Pradesh using Radon Emanometry.
20	Jaspreet Singh (1997)	The Radon Measurements in Ground Water for Earthquake Prediction.
21	Manish Dogra (1997)	To Determine the Concentration of Dissolved Radon in Water Sample Collected from Kangra (H.P.) and Amritsar (Pb.) Regions and Possible Assessment to the Health Hazard.

22	Darshan Singh (1997)	Radium Concentration and Radon Exhalation Measurements in some Rock Specimens and Building Materials using LR-115 Plastic Track Detectors.
23	Kirandeep (1997)	Boron Estimation in the Plant and Soil Samples of Amritsar Area using Plastic Track Detectors.
24	Jatinder Kumar (1998)	Ground Water Radon as an Earthquake Precursor.
25	Gurparsan Singh (1998)	Radon Diffusion Study in Soil-An Application of Solid State Nuclear Track Detectors.
26	Achint Raj (1998)	Uranium Estimation in Water Samples from Una District of Himachal Pradesh Using SSNTD's.
27	Kulwinder Khehra (1999)	Uranium Estimation in Soil and Rock Samples from Una District Himachal Pradesh using Solid State Nuclear Track Detector.
28	Gurcharan Singh Sarkaria (1999)	A Study of Correlation Between Radon Anomalies in Ground Water and Earthquake Events.
29	Jatinder Duggal (1999)	Geothermal Heat Energy Sources-A Report.
30	Tripta Sehgal (2000)	The Measurement of Radon Emanation rate from soil samples using SSNTD.
31	Paramjit Singh (2000)	Boron estimation in some plant species belonging to some areas of Amritsar district using SSNTD.
32	Ritu Sharma (2000)	Boron estimation in soil samples of some areas of Amritsar district (Punjab) using SSNTD.
33	Amandeep Dhiman (2000)	The measurement of radon emanation rate from plant samples using SSNTD.
34	Amritbir Kaur (2000)	Measurement of radon concentration in water samples collected from some areas of Una-district (H.P) and Amritsar district (Pb) using Radon Emanometry.
35	Charandeep Kaur (2000)	Indoor radon studies in the environs of Panchkula Area using Solid State Nuclear Track Detectors (SSNTDS).
36	Amrinderpal Singh (2001)	Ground water radon as earthquake precursor
37	Kamalpreet Singh (2001)	Determination of dissolved radon concentration in water samples from some areas of Bathinda district, Punjab using radon emanometry.
38	Suminder Sachdeva (2001)	A study of radon exhalation rates from some building materials using LR-115 plastic track detectors.
39	Shaveta Chawala (2001)	Indoor radon measurements in the dwellings of Pathankot city, Punjab using LR-115 plastic track detector.
40	Harvinder Singh (2002)	Radiometric survey for locating hidden radioactive anomaly.
41	Harpreet Chohan (2002)	The etching characteristics of fossil fission tracks in muscovite mica.
42	Arvind Kumar (2002)	Radon concentration in ground water samples from Jwalamukhi area, Kangra district, Himachal Pradesh using radon emanometry.
43	Gurinder Pal Kaur (2002)	A study of variation of radon concentration in water with volume using radon emanometry.

44	Sarabpriya (2002)	The measurement of gamma activity in the environs of Guru Nanak Dev University Campus area, Amritsar.
45	Jasreet Kaur (2003)	The Overhead projector transparency as a track recorder
46	Sangeeta Saini (2003)	A study of indoor radon concentration levels in the dwellings of a few villages of Bathinda district.
47	Navneet Kaur (2003)	The use of overhead projector transparency for measurement of source strength of the fission fragment source.
48	Jayoti (2003)	The measurement of gamma activity in the environs of Punjab Agriculture University, Campus Area, Ludhiana
49	Chanchal Bedi (2004)	Measurement of bulk etch rate of overhead projector transparency (OHPT's)
50	Ramandeep Kaur (2004)	The measurements of the activation energy for track etching in the overhead projector transparency used as a track recorder
51	Sunaina (2004)	Indoor radon level measurements in some dwellings of Dera Baba Nanak Area using LR-115 type II plastic track detectors
52	Amandeep Singh (2004)	The measurement of gamma activity in the environs of brick kilns on the outskirts of Amritsar district
53	Bableen Kaur (2005)	The trend in the variation of radon emanation from soil with time
54	Neenu Saini (2005)	Indoor radon level measurement in some dwellings of Sarna area using LR-115 type-II plastic track detectors
55	Kulwinder Kaur(2008)	Measurement of Radon Concentration in soil samples using RAD7
56	Ruhi Mahajan(2008)	Correlation of radon anomalies in soil with seismic events using SSNTD
57	Sonam Mahajan(2008)	Radon measurements in water samples taken from some areas of Punjab and Himachal Pradesh
58	Harpreet Kaur(2008)	The etching characteristics of fossil tracks in Biotite Mica
59	Megha Goyal(2008)	Effects of gamma radiation on tracks recording properties of microscopic glass slide
60	Sukhnandan Kaur(2008)	Gamma activity in some areas of Punjab & Himachal Pardesh
61	Barinder Kaur (2009)	Measurement of Radon in soil and water using RAD 7 for earthquake prediction.
62	Anita Hastir (2009)	Measurement of exhalation rate of radon in soil of different areas at Amritsar
63	Gurjot Singh (2009)	Radon gas analysis in some drinking water samples from Muktsar city using active technique

7. Participation in the International /National Conferences

1. Seminar cum workshop on geological records and contemporary fluxes on energetic charged particles, held at Physical Research Laboratory Ahmedabad, India, 1979.
2. Eighth Annual Convention cum seminar on exploration geophysics held at B.H. University, Varanasi on Nov. 4-5, 1982.
3. Ninth Annual Convention and seminar on exploration geophysics held at I.I.T., Bombay, December, 1983.
4. Third National Solid State Nuclear Track Detectors Conference held at Guru Nanak Dev University, Amritsar, March, 1983.
5. Fourth National Seminar cum Workshop on Solid State Nuclear Track Detectors held at Wadia Institute of Himalayan Geology, Dehradun from Nov. 4-6, 1986.
6. Symposium on Isotope-based studies on problems of Indian geology held at Presidency College, Calcutta from March 20-22, 1986.
7. Fifth National Seminar on Solid State Nuclear Track Detectors Application to Nuclear Physics held at Saha Institute of Nuclear Physics, Calcutta, March, 1987.
8. National Seminar on Atomic Inner Shell Ionization and its Analytical Applications, held at Punjabi University, Patiala from Feb, 19-20, 1988.
9. 14th International Conference on Solid State Nuclear Track Detectors held at Lahore, Pakistan during 2-6 April, 1988.
10. 14th International Conference on "Particle Tracks in Solids: held in Marburg (Germany) Sept., 3-7, 1990.
11. National Workshop cum Seminar on non-conventional energy sources (NCES) February 2-4, 1997 at G.N.D. University, Amritsar.
12. National Workshop on Ubiquitous radon (NW SUR-94), Nov. 22-24, 1994 held at B.A.R.C. Bombay.
13. National Seminar on Environment and Development, March 14-15, 1995, G.N.D. University, Amritsar.
14. 3rd International Conference on Rare Gas geochemistry applications in Earth and Environmental Sciences held at Guru Nanak Dev University, Amritsar during 10-14 December, 1995.
15. National Symposium on Solid State Nuclear Track Detectors SSNTD-96 (Oct. 3-5, 1996) held at Kurukshetra University, Kurukshetra.
16. 7th International Symposium on Radiation Physics (ISRP-97) held at Jaipur, India Feb. 24-28, 1997.
17. Convened Eleventh National Symposium on Solid State Nuclear Track Detectors SSNTD-98 (Oct. 12-14, 1998) at G.N.D. University, Amritsar.
18. International Conference on Radiation Protection Measurements and Dosimetry, Current Practices and Future Trends. (IARP-IC-2K1) Feb 20-23, 2001 ,BARC, Mumbai
19. International Conference on Natural Hazards : Mitigation and Management held at G.N.D University, Amritsar, during March 12-15, 2001
20. 12th Nat. Symposium on Solid State Nuclear Track Detectors: held at D.A.V.College Jalandhar, Oct-29-31, 2001. Worked as a co-ordinator and chaired one session.
21. 14th National Symposium on Radiation Physics held at G.N.D.University, Amritsar. Nov 1-3, 2001.

22. 5th Punjab Science Congress held at Thapar Institute of Engineering and Technology, Patiala during Feb 7-9, 2002.
23. National Seminar on Natural Hazards and their Mitigation held at Centre for Advanced Study in Geology, Punjab University, Chandigarh during Mar 8-11, 2002. Chaired one session.
24. 21st International conference on nuclear tracks in solids held at New Delhi during Oct. 21-25, 2002. Chaired one session.
25. Participated in the Workshop on radon studies in Environment held at Nuclear Science Center, New Delhi on February 24, 2003 and delivered an invited talk.
26. 12th National Symposium on Environment held at H.N. Bahuguna Garhwal University, Badshahi Thaul Campus, Tehri Garhwal during June 5-7, 2003 and Chaired the Session.
27. The National Seminar on Geohazards in North-West Himalaya held Jammu University, Jammu during October 9-11, 2003.
28. 13th National Symposium on Solid State Nuclear Track Detectors and their Applications held at Osmania University, Hyderabad during October 16-18, 2003 and Chaired the Session.
29. Participated in the “Workshop on Accelerator and Environmental Radiation safety”, held at Nuclear Science Centre, New Delhi during April 22-23, 2004 and delivered an invited talk.
30. Participated and presented papers in the 22nd International conference on Nuclear Tracks in Solids held at Universitat Autònoma de Barcelona, Spain during August 23-27, 2004 and Chaired one session.
31. Participated and presented paper in the National Conference on Advanced Materials and Technology held at D.A.V. College, Amritsar during September 24-26, 2004.
32. Participated and presented paper in the National Seminar on Recent Advances in Himalayan Geology with special reference to the NW Himalaya held at Punjab University, Chandigarh during October 6-8, 2004 and chaired one session.
33. Organized a National Conference cum Workshop on Solid state Nuclear Track Detectors and Applications in DAV College, Amritsar during Nov. 1-3, 2004 as a chairman and also delivered a Key note address.
34. Participated in the Indo German Workshop on Synthesis and Modifications of Nano-Structured Materials by Energetic Ion Beams held at Nuclear Science Centre, New Delhi during Feb 20-24, 2005.
35. Participated in the Nuclear and Radiochemistry Symposium held at Guru Nanak Dev University, Amritsar during March 15-18, 2005.
36. Participated in 9th South Pacific Environmental Radioactivity Conference (SPERA 2006) held at Melbourne, Australia during Oct. 9-13, 2006.
37. Participated in the Fifteenth National Symposium on Solid State Nuclear Track Detectors and their Applications held at HNB Garhwal University Srinagar during June 21-23, 2007.
38. Participated in the National workshop on Earthquake precursors held at IMD, New Delhi during June 28-29, 2007.
39. Participated in the 18th international conference on ion beam analysis held in the university of Hyderabad during Sept 23-28, 2007.
40. Participated in the 9th international conference on Gas geochemistry held at

- National Taiwan University Taipei Taiwan during Oct. 1-8, 2007.
41. Participated in RADON-2008 held in BARC during March 11-13, 2008
 42. Participated in the workshop on “October, 08, 2005, Kashmir Earthquake and after” held in University of Jammu during March, 22-23, 2008.
 43. Participated in 6th International Workshop held in Cairns, Australia during May 11-16, 2008.
 44. Delivered an Invited Talk in the Indian Nuclear Society national Seminar on Nuclear Technology for Sustainable Development during October, 10-11, 2009 held in Thapar University Patiala.
 45. Organized Sixteenth National Symposium On Solid State Nuclear Track Detectors And Their Applications on October 26-28, 2009 in Guru Nanak Dev University, Amritsar.
 46. Organized Seminar cum workshop On Solid State Nuclear Track Detectors and Their Applications on March 15-17, 2010 in AIET Faridkot.
 47. Participated in Impact of Uranium and other Heavy Metals on Health and delivered Invited Talk on “Analysis of Uranium and other Heavy elements in environment samples from Bathinda area Punjab State, India” at October 15 2010 Baba Farid University of Health Sciences. Faridkot.
 48. Participated in International Conference on ‘Environment Challenges: A Global Concern’ and delivered Invited Talk on “Environment radioactivity assessment for health concerns” during October 15-16 2010 at Kanya Maha Vidyalaya Jalandhar. Also chaired one session.

8. Research Highlights

1. Fission track dating of pegmatites and other Indian rocks including copper ore formations.
2. Lithochemical, Biogeochemical and Hydrogeochemical prospection for Uranium in Siwaliks of H.P. (Himachal Pradesh) ,U.P. (Uttar Pradesh) and Utranchal Himalayas.
3. Radon studies in the Environment for Health Risk Assessment
4. Radon and Helium Studies for Fault delineation and Earthquake Prediction.
5. Track etching and annealing studies in Mineral track detectors and applications in geothermal studies.
6. Neutron dosimetry and Boron analysis using solid state track recorders.
7. Heavy ion radiation damage studies in solid state nuclear track recorders
8. Radiation induced modifications in conducting and non conducting polymers.
9. Radiation induced modifications in natural and artificial Silicate Glasses.
10. Physico-chemical investigations and the estimation of uranium and other heavy toxic metals in drinking water samples of Punjab and Himachal Pradesh for health risk assessments.
11. Nano/ Micro wire synthesis on semiconductor substrate.

9. Highlights of Research work useful for mankind and society

High values of uranium in the environmental samples particularly in drinking water samples of some areas in South-West region of Punjab, which is considered to be one of the reasons for causing large number of cancer deaths in the region was reported by my research group at GNDU, Amritsar for the first time in the country. A lot of work has been done by my research group on the environmental radioactivity studies for health-risk assessment in Punjab, Himachal and Gharwal (Uttaranchal) Himalayas. Recently a major research project has been sanctioned to my research group by Board of Research in Nuclear Sciences, BARC, Mumbai for carrying out such studies in the entire Punjab area.

Radon and Helium precursory studies have been done by my research group in NW Himalayas and Punjab for seismo tectonics and earthquake prediction research. A number of seismic signals have successfully been correlated with these geochemical precursors under the major research projects funded by the Department of Science and Technology, New Delhi and Ministry of earth science, Government of India. My research group has international collaboration with National Taiwan University, Taiwan for such studies.

In collaboration with the Inter University Accelerator Center, New Delhi (IUAC) and National Institute of technology (NIT) Kurukshetra the research work is being carried out work in the field of nanotechnology for producing nano-wires on semi conducting substrates for their further applications in electronic and optoelectronic devices. This work is being done my research group using Solid State Nuclear Track Detectors (SSNTD's).

10. Visits Abroad

Italy (1986)	Participated in the Autumn course on Seismology at the International Centre for Theoretical Physics (ICTP), Trieste. Also visited the Department of Atomic Energy, Rome.
Pakistan (1988)	Participated in 14 th International Conference on Solid State Nuclear Track Detectors held at Lahore.
Germany (1990)	Participated in the 15 th International Conference on particle tracks in solids, held at Marburg. Also stayed in Darmstadt to work on heavy ion Accelerator.
Germany (1993)	Visiting Professor under German Academic Exchange Programme (DAAD) in the University of Kiel. Worked on Environmental radon in collaboration with Prof. W. Enge.
Spain (2004)	Visited Universitat Autònoma De Barcelona, Spain during August 23-27, 2004.
Australia (2006)	Participated in 9 th South Pacific Environmental Radioactivity Conference (SPERA 2006) held at Melbourne, Australia during Oct. 9-13,2006.

- Taiwan (2007) Participated in the 9th international conference on Gas geochemistry held at National Taiwan University Taipei Taiwan during Oct. 1-8, 2007
- Australia (2008) Participated in 6th International Workshop held in Cairns, Australia during May 11-16, 2008.
- Taiwan (2010) Visited National Taiwan University during December for two weeks under India-Taiwan Programme of Cooperation in Science and Technology

10 PUBLICATIONS

Conference Proceedings

Edited

1. Solid State Nuclear Track Detectors and Applications
Published in G.N.D. University, Amritsar Press. (Jan. 2000)
Editor: Prof. Surinder Singh
2. Proceedings 12th National Symposium on Solid State Nuclear Track Detectors (2002). Editors: Prof. Surinder Singh and Prof. A.J. Behal.

11. Research Publications (Prof. Surinder Singh)

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Dating of iron ore formations (Calicut area) by fission track method.
Ind. J. Pure and Appl. Phys. 14, 868-869.
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Fission track dating and uranium mineralization in pegmatites of Bhilwara area, Rajasthan State (India).
Mineralogical J. (Japan) 8, 263-271.
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5. Virk H.S. and Singh S. (1978)
Inclusion dating and phase differentiation in minerals.
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Fission track annealing behaviour of uraninite inclusions in muscovite pegmatite of Bhilwara area, Rajasthan State (India).
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Fission track dating of copper ore formations of Khetri area, Rajasthan State (India).
Geochemical Journal (Japan) 14, 51-55.
11. Singh S., Suri P.S. and Virk H.S. (1981)
Correction for thermally affected fission tracks in glass (obsidian) by age plateau method.
Cur. Sci. (India). 50, 626-627.
12. Suri P.S., Singh S. and Virk H.S. (1981).
Uranium and radon estimation by plastic track detectors.
Ind. J. Pure and Appl. Phys. 19, 1131-1133.
13. Virk H.S, Suri P.S. and Singh S. (1981)
Uranium estimation in plants of Siwalik Himalayas, Himachal Pradesh, India.
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14. Singh S. and Virk H.S. (1982)
Uranium estimation in minerals and rocks, an application of solid state nuclear track detectors.
Ind. J. Earth and Space Phys. (Tehran) 11, 1-5.
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Uranium estimation in Mussourie phosphorites using solid state nuclear track detectors.
Ind. J. Pure and Appl. Phys. 21, 125-126.
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18. Singh M, Singh N.P., Singh S. and Virk H.S. (1983)
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24. Singh S., Sandhu A.S. and Virk H.S. (1985)
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