

Curriculum Vitae

Full Name	Abhay Anand Bourai			
Designation	Professor			
Department	Physics			
Campus	S.R.T. Campus Badshahi Thaul, Tehri			
Telephone	01376-254117			
Mobile	09412347746; 08755551936			
Email	aabourai@gmail.com ; director.srtc@gmail.com			
Education Qualification	M.Sc.; Ph. D.			
Teaching Experience	25 Years	Research Experience	27 Years	
Areas of Interest/ Specialization				
1. Material Science				
2. Environmental Radiation Protection				
Honours & Awards				
NA				
Member of Academic Institutions				
NA				
Membership of Scientific Organization				
1. Life member Nuclear Track Society of India				
2. Member of International Geohazards Research Society				
Research Supervision (No. of Ph.D. Degree Awarded/ Registered): 02				
Research Projects/ MoU undertaken				
Title of Project	Funding Agency	Amount (Rs.)	Name of PI	
1. Modeling radon exhalation into soil chambers for continuous flux and soil gas measurements and its validation through multiparametric measurements : A case study at Garhwal Himalaya region.	Department of Atomic Energy, Govt of India, Mumbai BARC, Mumbai	Rs. 21,56,750/- Ongoing	Dr. A.A. Bourai Completed Committee member	
2. MoU with BARC to setting DAE facility display and dissemination centre				
Administrative Experience				
1. Working as Director, SRT Campus Tehri w.e.f. 01/08/2019				
2. Election officer Student Union.				
3. Convenor Guiding and Counselling Centre SRT Campus Tehri.				
4. Proctor				
5. Programme officer NSS				

6. Commissioned Ex NCC officer

Scientific Visits Abroad/International Collaboration

1. Participated in the biannual conference of the International Geohazards Research Society at NASA Ames Research Centre Moffett Field, CA, USA.(Dec.10-12, 2014)
2. Presented a paper on 6th International Geo-Hazard Research Symposium entitled **“A Comprehensive study of Soil-gas and atmospheric radon concentrations in the Duggada region of Garhwal Himalaya region along Main Boundary Thrust”** dated 5-9 march 2018, SARAD GmbH, Dresden, Germany.

Conference/Symposium/Workshop Attended during last five years (2014-2019).

International

1. Participated in the biannual conference of the International Geohazards Research Society at NASA Ames Research Centre Moffett Field, CA, USA. (Dec.10-12, 2014)
2. Presented a paper on 6th International Geo-Hazard Research Symposium entitled **“A Comprehensive study of Soil-gas and atmospheric radon concentrations in the Duggada region of Garhwal Himalaya region along Main Boundary Thrust”** dated 5-9 march 2018, SARAD GmbH, Dresden, Germany.
3. Presented a paper on International Conference on Aerosols, Air Quality & Climate change on Himalayan region of Uttarakhand (AAC-2018) entitled **“Assessment of doses due to Radon, Thoron and their progeny attached to the ambient aerosol content in the Main Boundary Thrust on Garhwal Himalaya”** dated 21-23 October 2018, Department of Physics, H.N.B. Garhwal University (A Central University), Srinagar Garhwal, Uttarakhand.

National

1. National Symposium on” Mind, Matter and Mathematics: A Dialogue” 12to 14 March 2014, jointly organized by Govt. PG college new Tehri and H. N. B. Garhwal University, campus Badshahi Thaul.
2. First National Conference on Radiation Awareness and Detection in Natural Environment 15-17 June, 2015, Department of Physics & Chemistry, H.N.B. Garhwal University, Badshahi Thaul Campus.
3. Seminar on Light & Light Based Technologies (SLT- 2016), 13-14 February, 2016, Doon University, Dehradun, Uttarakhand.
4. 19th National conference on solid state nuclear track detectors and their applications 19-21 November 2015, Department of Physics, Dr B R Ambedkar National Institute of Technology, Jalandhar.
5. Presented a paper on National Seminar on “Geo-Environmental Hazards and Neo-Tectonic Activities in Himalaya” entitled **“Measurement of Soil-gas radon concentration and indoor radon concentration along MBT in the Garhwal Himalaya region”** dated 28-30 October 2014, Department of Geology, S.R.T.

Campus, Badshahi Thaul, Tehri Garhwal, H.N.B. Garhwal University.

6. Presented a paper on Ist National conference on Radiation Awareness and Detection in Natural Environment (RADNET-I) entitled “**Study of Radiation Exposure due to Radon, thoron and their progeny in the indoor environment of Rajpur region of Uttarakhand Himalaya**” dated 15-17 June 2015, S.R.T. Campus, Badshahi Thaul, Tehri Garhwal, H.N.B. Garhwal University.
7. Workshop attended on “**An interactive programme among University teachers, School teachers and Students for encouragement of Science Education and Research in Uttarakhand**” dated 28-29 February 2016, organized by Department of Physics, Govt. P.G. College New Tehri & H.N.B. Garhwal University Campus Badshahi Thaul, Tehri Garhwal, Uttarakhand.

Conference/Symposium/Workshop Organized during last five years (2014-2019)

NA

Best Peer-Reviewed Publications 2014 onwards (up to 05)

Journals

1. Study of Radon Flux from Soil in Budhakedar region using SRM. A.A. Bourai, Sunita Aswal, **Tushar Kandari**, Shiv Kumar, Veena Joshi, B.K. Sahoo and R.C. Ramola. Radiation Protection Dosimetry (**Oxford Press**).. Vol. 171, no.2, 7 April, 2016, pp 267-270.
2. Emission of Soil-gas Concentration around Main Central Thrust in Ukhimath (Rudraprayag) region of Garhwal Himalaya. Sunita Aswal, **Tushar Kandari**, B.K. Sahoo, A.A. Bourai and R.C. Ramola. Radiation Protection Dosimetry. Vol. 171, no.2, 30 March, 2016, pp 243-247.
3. Study of Radiation Exposure due to Radon, Thoron and Their Progeny in the Indoor Environment of Rajpur region of Uttarakhand Himalaya. **Tushar Kandari**, Sunita Aswal, Mukesh Prasad, Preeti Pant, A.A. Bourai, and R.C. Ramola. Radiation Protection Dosimetry. Vol. 171, no.2, 31 March, 2016, pp 204-207.
4. Estimation of annual effective dose from radon concentration along Main Boundary Thrust (MBT) in Garhwal Himalaya. Tushar Kandari, Sunita Aswal, Mukesh Prasad, **A.A. Bourai** and R.C. Ramola. Journal of Radiation Research and Applied Sciences, **Taylor & Francis**, 2016, Vol. 9, 2016, pp. 228-233.
5. Study of radon flux and natural radionuclides (²²⁶Ra, ²³²Th and ⁴⁰K) in the Main Boundary Thrust region of Garhwal Himalaya (2018). Tushar Kandari, Mukesh Prasad, Preeti Pant, Poonam Semwal, **Abhay Anand Bourai**, Rakesh Chand Ramola. **Acta Geophysica (Springer)**. 66(5), 1243-1248.

Publication in Conference Proceedings:

1. “Study of indoor radon and thoron concentration using both active as well as passive techniques in the Rajpur region of Garhwal Himalaya”. Tushar Kandari, Mukesh Prasad, Preeti Pant, Anoop Dangwal, Sunita Aswal, **A.A. Bourai** and

R.C. Ramola. **Proc. 20th National Symposium on Radiation Physics (NSRP-20)**, Centre for Advanced Research in Environmental Radioactivity, (CARER) Mangalore, ISBN 978-93-82845-96-6, Pg. 226-231.

Chapters published in Book:

1. A review on effects of Radon, thoron and their daughter products on human beings in Uttarakhand Himalayan region. (2019). Tushar Kandari, Preeti Pant, Poonam Semwal, Amar deep, **A.A. Bourai**, R.C. Ramola. **Cambridge Scholars Publishing, United Kingdom. (Communicated).**
2. Thoron, Whether it should be neglected or not: A review. (2019). Tushar Kandari, Alok Sagar Gautam, **A.A. Bourai**, R.C. Ramola. **Cambridge Scholars Publishing, United Kingdom. (Communicated).**

Total Number of Research Publications: 12