Detailed CV

Name	:	Dr Karunaara. N
Educational Qualification	:	M Sc, M Phil, Ph D Radiography Testing Level–2 Certifed from Bhabha Atomic Research Centre/AERB
Designation	:	Professor Coordinator, Centre for Advanced Research in Environmental Radioactivity (CARER) Coordinator, Medical Physics Division
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Research Areas	:	Radiation protection, environmental radioactivity, radioecology, and nuclear safety. Development of new methods/ techniques/technology for the measurements and mitigation of radioactivity in the environment and workplaces. Accelerator mass spectrometry (AMS), gamma spectrometry, liquid scintillation spectrometry, alpha spectrometry and neutron activation analyses. Application of natural and anthropogenic radionuclides for studying environment, such as soil erosion, sedimentation rate and transportation measurements, atmospheric mixing studies, submarine water discharge, etc.
Professional Teaching Experience	:	25 years
Research Guidance (M.Phil. /Ph.D.)	:	
Ph D Completed students' list	:	Dr. Ujwal Prabhu Dr Chetan Rao

Dr (Mrs.) P V Geetha
Dr. Yashodhara I
Dr. Sudeep Kumara
Dr. Mohan M P
Mr. Srinivas Kamath (thesis submitted)
Mr. Dileep B N (thesis submitted)
Mrs. Renita Shiney D'Souza (thesis submitted)
Mrs. Rashmi Nayak (thesis submitted)

Ongoing Registered Students' list : Mr. A Baburajan
Mr. Bharath Seraje
Ms. Arya Ramya Krishnan
Mr. Vijith

Research Projects

Completed

Sl. No.	**Research Project**	**Duration**	**Funding Agency**	**Grant** (Rs.)
1.	Studies on site specific transfer factors for radionuclides and trace elements in Kaiga region	2007-11	Board of Research for Nuclear Sciences (BRNS)	37 lakhs
2.	Studies on transfer Factors of Iodine, Cesium and Strontium in air→ grass→ cow→ milk pathway and estimation of radiation dose specific to Kaiga region	2008-12	Nuclear Power Corporation of India Ltd. (NPCIL)	79 lakhs
3.	Baseline database on radiation level, radionuclides and trace elements concentration in environmental matrices around Gogi	2009-13	BRNS	36 lakhs
4.	Study of ^{220}Rn adsorption in charcoal and vegetable oils for ^{220}Rn mitigation application in off-gas stream	2009-14	Bhabha Atomic Research Centre (BARC)	38 lakhs
5.	Baseline radiation levels and radionuclides concentration in environmental matrices in and around BARC Project Site near Dodda Ullarti, Chellakere	2013-15	BARC	32 lakhs
6.	Studies on the sedimentation rate of fresh water reservoirs of West Coast of India by ^{137}Cs and ^{210}Pb techniques	2012-15	UGC	10.7 lakhs
7.	Standardization of techniques for ^{14}C and ^{3}H measurements in environmental matrices and evaluation of population doses in the vicinity of PHWR power plant	2013-20	BRNS	560 lakhs
8.	National coordinated project for establishing gamma radiation levels using TLD's	2015-18	BARC	12 lakhs

Ongoing

Sl. No.	Research Project	Duration	Funding Agency	Grant (Rs.)
1	Validation of liquid scintillation spectrometry-based Carbon-14 (^{14}C) measurements techniques by AMS and development of reference materials for application in environmental monitoring programmes around Nuclear Power Plants	2019-22	IUAC, New Delhi	8.26 lakhs
2	Inter-Institutional Collaborative Project on " Studies on Site Specific Environmental Transfer Factors for Radionuclides around IGCAR, Kalpakkam"	2020-23	Indira Ghandhi Atomic Research Centre	43.0 lakhs
3	Monitoring and Predicting Radionuclide Uptake and Dynamics in Tropical Monsoonal Climate for Optimizing Remediation of Radioactive Contamination in Agriculture	2020-23	International Atomic Energy Agency (IAEA)	Collaborative project

Professional Collaboration

Research collaboration with institutions abroad

- Wayne State University, USA
- Lund University, Sweden (Signed MoU)
- National Accelerator Centre, Seville, Spain
- National Institute of Radiological Sciences (NIRS), Japan (Signed MoU)
- University of Hirosaki, Japan (Signed MoU)
- College of Technology, Kuwait
- University of Southampton, UK
- Fudan University, Shanghai, China
- Shanghai Institute of Measurement and Testing Technology (SIMT), Shanghai, China
- Natural Radiation Survey and Analysis Research Unit (NRSA-RU), Chulalongkorn University, Thailand
- State Key Laboratory of Estuarine and Coastal Research (East China Normal University), Shanghai, China
- University of Botswana, Botswana
- College of Agriculture, Botswana
- Ithemba Laboratories, South Africa
- University of Agriculture Abeokuta, Nigeria
- National Center for Nuclear Sciences and Technology, Tunisia

Research collaboration with Institutions within India

- Bhabha Atomic Research Centre, Mumbai (Signed 4 MoUs)
- Indira Gandhi Centre for Atomic Research, Kalpakkam (Singed MoU)
- Environmental Survey Laboratories of Nuclear Power Plants at Kaiga, Kakrapara, Tarapur, Narora, Kalpakkam, Kudankkulam
- Nuclear Power Corporation of India Ltd. (Singed MoU)
- Indian Institute of Science (MoU is being signed)
- Indian Institute of Technology, Mumbai
- Inter-University Accelerator Centre (MoU signed)
- JNU, New Delhi
- National Centre for Sustainable Coastal Management, Chennai
- ICAR - Institute of Soil And Water Conservation, Dehradun
- Indian Agricultural Research Institute, New Delhi
- About 30 Universities/Institutes of India

Research Journal Publications

Publication details	**Number**
Papers published in journals	95
Papers published in conferences / seminars	181
Invited talks	29
Books/proceedings (edited)	6
Project reports	11
Laboratory manual on analysis of environmental samples for radioactivity	1

a. In Journals

Publication through International Collaboration

1. Determination of radon concentration in soil gas by gamma-ray spectrometry of olive oil
   Darwish Al-Azmi and Karunakara N.
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2. Natural radioactivity in soil samples of Botswana
   Murthy V. R. K. and Karunakara N.
   Journal of *Radiation Measurements*, 43; 1541–1545; 2008.

3. Indoor and outdoor radon levels and its diurnal variations in Botswana
   Murthy V. R. K., King, J. G., Karunakara N., Raju V.C.C.
   Nuclear Instruments and Methods in Physics Research A, Available online since 25 October, 2009.

4. A Study on Radon Absorption Efficiencies of Edible Oils Produced in India
   Karunakara N. and Darwish Al-Azmi
   Health Physics, 98(4), 621-627, 2010.

5. A simple radon chamber for use with soil gas for calibration of radon measuring devices and instruments
   D. Al-Azmi and N. Karunakara
   International Journal of Low Radiation, 8 No. 5/6, 429-439, 2011.

6. Application of the Monte Carlo method for the efficiency calibration of CsI and NaI detectors for gamma-ray measurements from terrestrial samples
S. Baccouche, D. Al-Azmi, N. Karunakara and A. Trabelsi
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7. Radon adsorbed in activated charcoal - a simple and safe radiation source for teaching practical radioactivity in schools and colleges
D. Al-Azmi, A. Mustapha and N. Karunakara
PHYSICS EDUCATION, 47(4), 471-475, 2012.

8. Teaching about natural background radiation.
D. Al-Azmi, A. Mustapha and N. Karunakara.
PHYSICS EDUCATION, 48 (4), 506-511, 2013.

9. Measurements of fission yield in 8 MeV bremsstrahlung induced fission of ^{232}Th and ^{238}U
H. Naik, B. S. Shivashankar, H. G. Raj Prakash, Deves Raj, Ganesh Sanjeev, N. Karunakara, H. M. Somashekarappa, S. Ganesan, G. N. Kim, A. Goswami
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Sowmya Shreedhar & Rekha Punchapady Devasya, Karunakara Naregundi & Chiu-Chung Young and Arun Ananthapadmanabha Bhagwath
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11. Problems with the dating of sediment core using excess ^{210}Pb in a freshwater system.
Mark Baskaran, Joseph Nix, and N. Karunakara
Journal of Environmental Radioactivity, 138, 341-342, 2014.

12. Assessment of γ-radiation levels and associated dose rates from surface soils in the eastern part of Botswana
Alfred Sello Likuku', N. Karunakara, Gothatamang Patrick Nthoiwa
International Journal of Low Radiation, Vol. 9, Nos. 5/6, 344-354, 2014

13. Special issue of Journal of Environmental Radioactivity on 2nd International Conference on Po and radioactive Pb isotopes.
Edited by N Karunakara, M Baskaran *Journal of Environmental Radioactivity* 138, 341-342, 2014

14. Baseline studies on radionuclide concentration in food materials and estimation of the committed radiation dose around the phosphate industrial area of south Tunisia. Sonia Machraoui, M. P. Mohan, N. Karunakara, Salam Labidi Radiation Protection Dosimetry 208, 1-11, 2018.

15. Gamma dose rates in the high background radiation area of Mangalore region, India
Darwish Al-Azmi1,Sudeep Kumara , M. P. Mohan and N. Karunakara
Radiation Protection Dosimetry, pp. 1–4, 2019.

16. Assessment of radionuclide transfer factors and transfer coefficients near phosphate industrial areas of South Tunisia

Sonia Machraoui & Mohan Mandya Purushotham, Karunakara Naregundi and Salam Labidi
Environmental Science and Pollution Research, Springer Nature, https://doi.org/10.1007/ s11356-019-05786-8. 2019

17. A Walk-In Type Calibration Chamber Facility For ^{222}Rn Measuring Devices and Inter-Comparison Exercises
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18. Mass exhalation rates, emanation coefficients and enrichment pattern of radon, thoron in various grain size 3 fractions of monazite rich beach placers
Primal V. Pinto1, Sudeep Kumara K.and Karunakara N.
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19. Comparison of radon and thoron concentration measuring systems among Asian countries
M. Janik 1, S. Tokonami, K. Iwaoka, N. Karunakara, D. Al-Azmi, S. Trilochana, M P. Mohan, K. Sudeep, I. Yashodhara, W. Zhuo, C. Zhao, F. Tang, L. He, S. Chanyotha, C. Kranrod and O. KuriharaInt. J. Environ. Res. Public Health 16, 5019; 2019. doi:10.3390/ijerph16245019

20. Optimization of a Batch Thermal Combustion Method Using a Tube Furnace Oxidation System (Pyrolyser) and LSC for Carbon-14 Determination in Environmental Matrices.
Renita Shiny D'Souza, S. Rashmi Nayak, M. P. Mohan, Bharath, K Arya Krishnan, Srinivas Kamath, P.M. Ravi, N. Karunakara & A.D. Ferrari, L.A. García, I.G. Martínez, F.J.S. Arévalo, R.G.Tenorio
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Other Publications in International Journals

21. Prominent alpha emitting radionuclides in Kaiga environs
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Indian Journal of Environmental Protection, Vol. 14, No. 4, 241-245,1994.

22. Distribution and enrichment of radionuclides in the newly discovered high background area in Ullal on the south-west coast of India
Narayana Y., Radhakrishna A. P., Somashekarappa H. M., Karunakara N., Balakrishna K. M. and Siddappa K.
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23. Distribution of some natural and artificial radionuclides in the environment of coastal Karnataka of South India
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24. Internal exposure to the population of coastal Karnataka of south India from dietary intake
Narayana Y., Radhakrishna A. P., Somashekarappa H. M., Karunakara N., Balakrishna K. M. and Siddappa K.
Radiation Protection Dosimetry (UK), Vol. 62, No. 3, 131-138, 1995.

25. Indoor radon levels in coastal Karnataka on the south west coast of India
Narayana Y., Somashekarappa H. M., Karunakara N., Balakrishna K. M., Siddappa K., Kumar S., Gopalani D. & Ramaseshu P.
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Mahesh H. M., Avadhani D. N., Karunakara N., Somashekarappa H. M., Narayana Y. and Siddappa K.
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31. Polonium-210 concentration in food and diet samples of the Goa environs, India
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32. Prominent artificial radionuclides in the environment of coastal Karnataka of south west coast of India
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33. Distribution and enrichment of ^{210}Po in the environment of Kaiga in south India
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34. Distribution and behavior of ^{210}Po and ^{210}Pb in soil samples of Goa, south west coast of India
Avadhani D. N., Mahesh H. M., Somashekarappa H. M., Karunakara N., Narayana Y. and Siddappa K.
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35. ^{210}Pb concentration in air and water samples in the environment of coastal Karnataka and Kaiga
Mahesh H. M., Avadhani D. N., Somashekarappa H. M., Karunakara N., Narayana Y. and Siddappa K.
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36. Natural radioactivity in the environment of Goa of south-west coast of India
Avadhani D. N., Mahesh H. M., Somashekarappa H. M., Karunakara N., Narayana Y. and Siddappa K.
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37. Natural radioactivity in beach sands of Goa of South-West coast of India.
Avadhani D. N., Mahesh H. M., Somashekarappa H. M., Karunakara N., Narayana Y. and Siddappa K.
Journal of Radiation Protection and Environment. Vol 24. No.4, 2001.

38. ^{210}Po/^{210}Pb Ratio in Air and Rain water samples in the Environment of coastal Karnataka and Kaiga
Mahesh H. M., Avadhani D. N., Somashekarappa H. M., Karunakara N., Narayana Y. and Siddappa K.
Journal of Radiation Protection and Environment, India. Vol. 24, Nos. 1&2 (Suppl.) S71-S75, 2001.

39. Distribution of Natural radionuclides in soil samples of coastal Karnataka of south west coast of India
Narayana Y., Karunakara N., Somashekarappa H. M., Avadhani D. N., Mahesh H. M. and Siddappa K.
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Health Physics, USA, Vol. 81, No 2, 148-155, 2001.

42. Dietary intake of ^{210}Po and ^{210}Pb in the environment of Goa of south west coast of India
Avadhani D. N., Mahesh H. M., Karunakara N., Narayana Y., Somashekarappa H. M. and Siddappa K.
Health Physics, USA, Vol.81, No. 4, 438-445, 2001.

43. Radon-222 concentration in Ground waters and associated health effects in the environment of coastal Karnataka and Kaiga on south west coast of India
Mahesh H. M., Avadhani D. N., Karunakara N., Somashekarappa H. M., Narayana Y. and Siddappa K.
Health Physics, USA, Vol.81, No. 6, 724-728, 2001.

44. ^{226}Ra, ^{40}K and ^{7}Be activity concentrations in plants in the environment of Kaiga of south west Coast of India
Karunakara N., Somashekarappa H. M., Narayana Y., Avadhani D. N., Mahesh H. M. and Siddappa, K.
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45. Distribution and behaviour of natural radionuclides in soil samples of Goa on the southwest coast of India
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46. Natural radioactivity in South West Coast of India
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47. Indoor and outdoor radon levels and their diurnal variations in the environs of southwest coast of India
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48. Transportation of radionuclides from Western Ghats to Arabian Sea through some major rivers of south India
Rajshekara K. M., Narayana Y., Karunakara N., and Siddappa, K.
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Karunakara N.
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51. Concentrations of Concentrations of ^{226}Ra, ^{232}Th and ^{40}K in the Soils of Bangalore Region, India
Shiva Prasad N. G., Nagaiah N., Ashok G. V. and Karunakara N.
Health Physics Health Phys. Vol. 94(3); 264 –271; 2008.

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Chetan Rao, Ujwal Prabhu, Karunakara N., Somashekarappa H. M., Nayak, P. D. and Ravi P. M.
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Yashodhara, I., Karunakara, N., Sudeep Kumara, K., Rudramurthy., and Tripathi, R. M.,
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P. V. Geetha, N. Karunakara, Ujwal Prabhu, P. M. Ravi, J. Sudhakar , Nicy Ajith, K. K. Swain, R. Acharya, A. V. R. Reddy
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Y. S. Mayya, R. Mishra, R. Prajith, A. C. Gole, B. K. Sapra, M. P. Chougaonkar, R. R. K. Nair, R. C. Ramola, N. Karunakara, P. K. M. Koya
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N. Karunakara, Chetan Rao, P. Ujwal, I. Yashodhara, Sudeep Kumara, P.M. Ravi
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N. Karunakara, P. Ujwal , I. Yashodhara , Chetan Rao , K. Sudeep Kumara, B.N. Dileep, P.M. Ravi. *Journal of Environmental Radioactivity*, Vol. 124, 101-112, 2013.

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Sudeep Kumara K., Sahoo B. K, Gaware J. J, Sapra B. K., Mayya Y. S. and Karunakara N.

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P. G. Shetty, S. K. Sahu, R. A. Takale, M. Swarnkar, N. Karunakara, G. G. Pandit.
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141. An Advanced Calibration facility for ^{222}Rn and Progeny Measuring Devices.
Trilochana Shetty, H. M. Somashekarappa, K. Sudeep Kumara, I.Yashodhara, M. P. Mohan, B. K. Sahoo, J. J. Gaware, B. K. Sapra and Karunakara N.
20th National Conference on Solid State Nuclear Track Detectors and Their Applications, 26-28, October, 2017.

142. Beryllium-7 and Lead-210 in West Coast of India.
Mohan. M. P, Renita Shiny D'Souza, Rashmi Nayak, Srinivas S Kamath, Trilochana Shetty, K. Suddep Kumara, Yashodhara. I and Karunakara. N.
National Conference on Reached the Unreached through Science and Technology, 8 - 9 September, 2017, Mangalore University.

143. Determination of organically bound tritium in environmental matrices.
Rashmi Nayak S, Renita Shiny D'Souza, Srinivas Kamath, Mohan M P, Bharath, Narayana B, Dileep B N, Ravi P M, and Karunakara N.

National Conference on Reached the Unreached through Science and Technology, 8 - 9 September, 2017, Mangalore University.

144. Estimation of ^{14}C Concentration in Environmental Matrices.
Renita Shiny D'Souza, Rashmi Nayak S, Srinivas Kamath, M. P. Mohan, Bharath, B. Narayana, B. N. Dileep ,P. M. Ravi and N. Karunakara.
National Conference on Reached the Unreached through Science and Technology, 8 - 9 September, 2017, Mangalore University.

145. ^{7}Be and ^{210}Pb in Soil and Vegetation in the Environment of West Coast of India.
Mohan. M. P, Sunil Kumar. A. C, Radhakrishna A. P, Renita Shiny D'Souza, Rashmi Nayak, Srinivas S Kamath, Trilochana Shetty, K. Suddep Kumara, Yashodhara. I and Karunakara. N.
National Conference on Radiation Physics, NCRP-2017, 23-24 November, 2017, Bangalore University, 120.

146. Performance Evaluation of Automatic Sample Oxidation System for Organically Bound Tritium Determination in Environmental Matrices.
Rashmi Nayak S, Renita Shiny D'Souza, Srinivas Kamath, Mohan M P, Narayana B, Dileep B N, Ravi P M, and N. Karunakara.
National Conference on Radiation Physics, NCRP-2017, 23-24 November, 2017, Bangalore University.

147. Tritium Concentration in Ambient Air Around Kaiga Nuclear Power Plant.
Srinivas. S. Kamath, B. Narayana, Renita Shiny D'Souza, Rashmi Nayak, Mohan. M. P, B. N. Dileep, Babu Rajan A, Ravi P. M and N. Karunakara.
National Conference on Radiation Physics, NCRP-2017, 23-24 November, 2017, Bangalore University.

148. Performance Evaluation of Sample Oxidation System for Carbon-14 Determination in Environmental Matrices.
Renita Shiny D'Souza, Rashmi Nayak S., Srinivas Kamath, Mohan M. P., Narayana B., Dileep B. N., Ravi P. M., and Karunakara N.
National Conference on Radiation Physics, NCRP-2017, 23-24 November, 2017, Bangalore University, 174

149. Performance Evaluation of Two Oxidation Systems for Tritium Measurements in Environmental Matrices.
Rashmi Nayak S., Renita Shiny D'Souza, Srinivas Kamath, Mohan M. P., Narayana B., Dileep B. N., Ravi P. M., and Karunakara N. 2018. 21st National symposium on Radiation Protection (NSRP 21). 05-07 March 2018, Raja Ramanna Centre for Advanced Technology, Indore Indore, PP: 112.

150. Site Specific Data on Water Equivalent Factor for Determination of Organically Bound Tritium Concentration.
Rashmi Nayak S., Renita Shiny D'Souza, Srinivas Kamath, Mohan M. P., Narayana B., Dileep B. N., Ravi P. M., and Karunakara N. 2018. 20th National symposium on Environment (NSE-20) 20-23 May 2018, PP: 461-462.

151. A "Semi-dynamic" Technique for Achieving Temporal Stability of ^{222}Rn Concentration in a Walk-in Type of Calibration Chamber.

S. Trilochana, K. Sudeep, M.P. Mohan, B.K. Sahoo, J.J. Gaware, B.K.Sapra, H.M. Somashekarppa, Y.S. Mayya and N.Karunakara
21st National Symposium on Radiation Protection (NSRP 21), 5-7 March, 2018,.

152. Importance of site specific data on total carbon content for the estimation of Carbon-14 specific activity in environmental samples
Renita Shiny D'Souza, Rashmi Nayak S., Srinivas Kamath, Mohan M. P., Dileep, B. N., Ravi P. M., Ferrari A.D., Garcia L.A., Martinez I. G., Arevalo F. J. S., and Karunakara N.
Proceedings of 21st National symposium on Radiation Protection (NSRP 21). 2018. PP: 113.

153. A New Passive Method for Long Term Atmospheric Tritium Sampling Using Glycerol. Srinivas. S. Kamath, B. Narayana, Renita Shiny D'Souza, Rashmi Nayak, Mohan. M. P, B. N. Dileep, Babu Rajan A, Ravi P. M and N. Karunakara. Proceedings of National Symposium on Radiation Physics-2018, 5-7th March, RRCAT, Indore.

154. Evaluation of spatial homogeneity of ^{222}Rn in a walk in calibration chamber using CR-39 based passive detectors. Trilochana, S., Sudeep, K. K., Mohan,M.P., Somashekarppa, H. M., Sahoo, B. K., Gaware, J. J., Sapra, B. K.,Mayya, Y. S., Janik, M., Darwish, A., Karunakara, N,
Proceedings of 20th National symposium on Environment (NSE-20), 13 – 15 December, 2018, IIT Gandhinagar, Ahmedabad.

155. Radon as a Tracer for Estimation of Indoor Air Change Rate (ACR).
K.Sudeep Kumara., Trilochana Shetty., M.P.Mohan., Y.S. Mayya., N.Karunakara. Proceedings of 20th National Symposium on Environment (NSE-20), p,455-456. 2018

156. Air sampling for Tritium measurement using ethylene glycol- Evaluation of dependence of collection efficiency with ambient temperature and humidity.
Srinivas. S. Kamath, B. Narayana, Renita Shiny D'Souza, Rashmi Nayak, Mohan. M. P, B. N. Dileep, Babu Rajan A, Ravi P. M and N. Karunakara.
Proceedings of 20th National Symposium on Environment-2018, 13-15th December, Indian Institute of Technology, Gandhinagar. 2018.

157. ^{14}C activity in environmental matrices in west coast region of India
Renita Shiny D'Souza, Rashmi Nayak S., Srinivas Kamath, Mohan M. P., Narayana B., Dileep, B. N., Ravi P. M., and Karunakara N.
Proceedings of 20th National symposium on Environment (NSE-20). PP: 457-458. 2018

158. HTO and Organically Bound Tritium (OBT) in Marine Ecosystems at Tarapur
A. Baburajan,V.Sudheendran, R.H.Gaikwad, P.M. Ravi and N. Karunakara
Proceeding of 20th Biennial DAE BRNS Symposium on Nuclear and Radiochemistry (NUCAR-2019), January15-19, 2019, at BARC, Mumbai, Page No: 281

159. Determination of indoor air change rate (ACR) in dwellings with ^{222}Rn as a tracer.
K.Sudeep Kumara., Trilochana Shetty., M.P.Mohan., Y.S.Mayya., N.Karunakara (2019). 22nd National Symposium on Radiation Physics (NSRP-22), p,160

160. Measurement of Indoor Air Exchange Rate (AER) by ^{222}Rn Time Series Analysis
K.Sudeep Kumara., Trilochana Shetty., M.P.Mohan., Y.S.Mayya., N.Karunakara
Paper submitted to IARPNC-2020 to be held at NFC, Hyderabad (November, 2020)

161. Annul tree growth rings of tropical high rainfall regions of India can be used for retrospective assessment of Carbon-14 in the environment

K Arya Krishnan, Bharath, R.S. D'Souza, K. Stenström, H. Linderson and Karunakara N.
Paper accepted for IARPNC-2020 to be held at NFC, Hyderabad (November, 2020)

162. TLD based cumulative gamma dose measurements in Karnataka, India
B. Sachin, S. Trilochana, K. Sudeep, Kumara, M. P. Mohan, S. K. Sahu, P.G. Shetty, M. Swarnakar, R. A. Takale, Nagaiah N and N Karunakara
Paper accepted for IARPNC-2020 to be held at NFC, Hyderabad (November, 2020)

163. Quantification of Stack Discharge of ^{14}C from PHWR Power Plant at Kaiga
Bharath, D'Souza R. S, Arya Krishnan K, Nayak S. R, Manganvi S. S,
Ravi P. M, Karunakara N.
Paper accepted for IARPNC-2020 to be held at NFC, Hyderabad (November, 2020)

164. Organically Bound Tritium in terrestrial biota in the vicinity of PHWR power plant at Kaiga
S.Rashmi Nayak, Renita Shiny D'Souza, Bharath, Arya Krishnan, Srinivas Kamath,
P.M.Ravi, and N. Karunakara
Paper accepted for IARPNC-2020 to be held at NFC, Hyderabad (November, 2020)

165. ^{14}C in Terrestrial Environmental Biota in the Vicinity of PHWR NPP at Kaiga
Renita Shiny D'Souza, Bharath. Arya Krishnan, S. Rashmi Nayak,
Srinivas Kamath, P.M. Ravi, and N. Karunakara
Paper accepted for IARPNC-2020 to be held at NFC, Hyderabad (November, 2020)

166. Temporal and seasonal variations of Tritium in ambient air at Kaiga Nuclear Power Plant
Srinivas S Kamath, B Narayana, Renita Shiny D'Souza, Rashmi Nayak,
M. P. Mohan M, P M. Ravi, and N Karunakara
Paper accepted for IARPNC-2020 to be held at NFC, Hyderabad (November, 2020)

Conference Presentations (Abstracts)

167. Alpha counting techniques in environmental radioactivity investigations
Avadhani D. N., Narayana Y., Karunakara N., Somashekarappa H. M., Mahesh H. M. and Siddappa K. *National Symposium on One Hundred years of Electron Discovery (NSED-97),* Kuvempu University, Shimoga, India, Dec. 29-30, 1997.

168. GERMON Station at Mangalore University - A Nodal Centre.
Somashekarappa H. M., Narayana Y., Mahesh H. M., Karunakara N., Avadhani D. N. and Siddappa K.
National Symposium on One Hundred years of Electron Discovery (NSED -97), Kuvempu University, Shimoga, India, Dec. 29-30, 1997.

169. Gamma spectrometry for probing the environment.
Karunakara N., Somashekarappa H. M., Narayana Y., Avadhani D. N., Mahesh H. M., Balakrishna K. M. and Siddappa K.
National Symposium on One Hundred years of Electron Discovery (NSED-97), Kuvempu University, Shimoga, India, Dec. 29-30, 1997.

170. Low background high efficiency beta counting system for low level counting
Mahesh H. M., Somashekarappa H. M., Karunakara N., Avadhani D. N. and Siddappa K.
National Symposium on One Hundred years of Electron Discovery (NSED -97), Kuvempu University, Shimoga, India, Dec. 29-30, 1997.

171. Natural alpha activity in the environment of Kaiga
Karunakara N., Somashekarappa H. M., Narayana Y., K. M. Balakrishana and Siddappa K.
National seminar on Radiation, Environment and Man, Mysore University, Mysore, India, Oct. 8-9, 1992.

172. Natural radiation level in the environment of Goa
Avadhani D. N., Mahesh H. M., Karunakara N., Somashekarappa H. M., Narayana Y., Balakrishna K. M. and Siddappa K.
Seminar on Impact of Discovery of Radioactivity on Modern Society (IDRMS-96), Kuvempu University, Shimoga, India, Nov. 4-5, 1996.

173. Radiation dose due to radon daughters in Mangalagangotri
Mahesh H. M., Avadhani D. N., Karunakara N., Somashekarappa H. M., Narayana Y., Balakrishna K. M. and Siddappa K.
Seminar on Impact of Discovery of Radioactivity on Moder Society (IDRMS-96), Kuvempu University, Shimoga, India, November 4 -5, 1996.

174. Radium-226 and Po-210 activities in Kaiga environs
Karunakara N., Balakrishna K. M., Somashekarappa H. M., Narayana Y., Avadhani D. N., Mahesh H. M. and Siddappa K.
Seminar on Impact of Discovery of Radioactivity on Modern Society (IDRMS-96), Kuvempu University, Shimoga, India, Nov. 4 -5, 1996.

175. Cesium-137 and Strontium-90 concentration in coastal Karnataka and Kaiga environs
Karunakara N., Narayana Y., Somashekarappa H. M., Radhakrishna A. P., Avadhani D. N., Mahesh H. M., Balakrishna K. M. and Siddappa K.
National Seminar on Coastal Zone Environment Management: an appraisal of the contemporary research and development, Mangalore University, Mangalore, India, Feb. 12-14, 1997.

176. Radon and thoron progeny concentrations in dwellings in the environment of Mangalore
Somashekarappa H. M., Karunakara N., Mahesh H. M., Avadhani D. N. and Siddappa K.
National Symposium on prospectus and problems of environment in the new millennium, Mangalore University, Mangalore, India, Dec. 14-16, 2000.

177. Concentration and distribution of polonium-210 in air and water samples in the environment of coastal Karnataka and Kaiga
Mahesh H. M., Avadhani D. N., Somashekarappa H. M., Karunakara N. and Siddappa K.
National Symposium on prospectus and problems of environment in the new millennium, Mangalore University, Mangalore, India, Dec. 14-16, 2000.

178. Distribution of natural radionuclides in potable waters of Goa environs.
Avadhani D. N., Mahesh H. M., Somashekarappa H. M., Karunakara N. and Siddappa K.
National Symposium on Emerging Trends in Radiation Sources and their Applications, Kuvempu University, Shimoga, India, January 9-10, 2001

179. Concentrations of ^{210}Po and ^{210}Pb in atmosphere in the environment of coastal Karnataka and Kaiga.
Mahesh H. M., Avadhani D. N., Somashekarappa H. M., Karunakara N. and Siddappa K.
National Symposium on Emerging Trends in Radiation Sources and their Applications, Kuvempu University, Shimoga, India, Jan. 9-10, 2001

180. Uranium concentration in water samples in the environment of coastal Karnataka and Kaiga.
Mahesh H. M., Avadhani D. N., Somashekarappa H. M., Karunakara N. and Siddappa K.
National Seminar on Atomic Energy, Ecology and Environment, Jamal Mohammed College, Tiruchirappalli, India, Feb. 8-9, 2001.

181. Natural radiation level and radionuclides distribution in beach sand of Goa.
Avadhani D. N., Mahesh H. M., Somashekarappa H. M., Karunakara N. and Siddappa K.
National Seminar on Atomic Energy, Ecology and Environment, Jamal Mohammed College, Tiruchirappalli, India, Feb. 8-9, 2001.

Invited / plenary talks delivered

Sl. No.	Title and Details
1.	Radioactivity and Radionuclide Distribution in the Environment of Kaiga of South West Coast of India. Satellite Meeting of International Conference IARP - IC - 2K1, Kaiga, India, Feb. 26-27, 2001.
2.	Monitoring of Radioactivity in the Environs of South West Coast of India National Seminar on Atomic Energy, Ecology and Environment, held at Jamal Mohamed College, Tiruchirappalli, India during Feb. 8-9, 2001.
3.	Studies on Environmental Radioactivity in South West Coast of India Seminar on Nuclear Power, Science City, Kolkata, March 10-11, 2007.
4.	Studies on Environmental Radioactivity in South West Coast of India by Mangalore University National Conference of Low Level Radiation Measurement, IUAC, New Delhi, Nov. 18-20, 2009.
5.	Nuclear Power – The Power of the Future UGC Sponsored National Seminar on "Nuclear Chemistry – Its relevance to present scenario", A. V. Kamalamma College for Women, Davangere, March 5th, 2010.
6.	Environmental Impact Assessment Around the Nuclear Power Station in Kaiga National Seminar on Nuclear Energy and Environment. Kuvempu University, Karnataka. November 10-11, 2011.
7.	Findings of the Studies on Environmental Radioactivity Monitoring for Two Decades Around Kaiga Region National Conference on Nuclear Applications, Hazards and Safety Measures (NAHSM). Tumkur University, Karnataka, February 10-11, 2012.
8.	Nuclear Energy – Myths and Realities National Science Day Celebration-2012, Organized by St. Agnes College, Mangalore in association with the Karnataka Science and Technology Academy, February 25, 2012.
9.	Studies on Radioactivity Levels in the Environmental of Kaiga Nuclear Power Station Technical Seminar on Nuclear Energy – Environment and Safety (NEEDS-2012), Organized by the Indian Nuclear Society and Mysore University, March 3, 2012.
10.	Site Specific Studies on Environmental Transfer Factors in Kaiga Region 30th IARP National Conference (IARPNC-2012), Mangalore University, March 15-17, 2012.
11.	Site Specific Studies on Environmental Transfer Factors in Kaiga Region 19th National Symposium on Radiation Physics – IGCAR, Kalpakkam, Dec. 12-14, 2012.

12.	Environmental Radioactivity – Sources and Measurements Refresher Course in Physics, Staff Development College, Bangalore University, April 10, 2013.
13.	Applications of Nuclear Energy and Radioisotopes for the Benefit of Mankind Refresher Course in Physics, Staff Development College, Bangalore University, April 10, 2013.
14.	Applications of the Radioisotopes in Human Welfare National Seminar on "Radiation and Radio Isotopes in Research", Milagres College, Kalyanapura, Udupi, Sept. 6, 2013.
15.	Benefits of Nuclear Energy and its Need for Developing India St. Agnes College, Mangalore, Jan. 20, 2014.
16.	Radiation and Radioisotopes for the Benefit of Mankind National Seminar on Isotope and Nuclear Technique - Applications to Basic and Applied Sciences", M. A. M. O. College, Mukkam, Calicut, March, 2014.
17.	Radiation and Radioisotopes – Applications UGC sponsored National Seminar at St. Philomena College, Puttur, March 15, 2014.
18.	Studies on Environmental Radioactivity and Impact Assessment around Kaiga Region National Seminar on "Radioactivity – Natural and Manmade", Vidya Vikas Institute of Engineering and Technology, Mysore, March 15, 2014 (Organized by Indian Nuclear Society, Mysuru).
19.	Impact Assessment Studies around the PHWR power plant at Kaiga Region National Seminar of Radiation in the Environment, Hyderabad JNTU Technology, Hyderabad, May 2015.
20.	Studies on Environmental Radioactivity in Karnataka St. Philomena College, Mysuru, March 29, 2016.
21.	Centre for Advanced Research in Environmental Radioactivity (CARER) - Activities, Capabilities, and Opportunities for Collaborative Research" Twentieth Conference on Solid State Nuclear Track Detectors and Their Applications (SSNTD-20), Vidya Vikas Institute of Engineering and Technology, Mysuru, October 26-28, 2017.
22.	Activities, Capabilities, Achievements and Opportunity for Collaborative Research at Centre for Advanced Research in Environmental Radioactivity (CARER) National Conference on Radiation Physics (NCRP), Bangalore University, Nov. 23-24, 2017.
23.	Standardization of methods for Carbon-14 and Tritium Measurements in environmental matrices around Nuclear Power Plants –Challenges 21st National Symposium on Radiation Physics (NSRP-21), Raja Ramanna Center for Advanced Technology (RRCAT), Indore, India, March 5-7, 2018.
24.	Pre and Post-operational Radioecological Studies Around Kaiga Nuclear Power Station IARP International Conference (IARPIC-2018) on "Developments towards Improvement of Radiological Surveillance at Nuclear Facilities and Environment", January 16-20, 2018, BARC, Mumbai,
25.	^{210}Po and ^{210}Pb in terrestrial, atmospheric and aquatic environment of tropical rainfall region of Indian subcontinent Fourth International Conference on Polonium and Radioactive Pb Isotopes (INCO-PoPb-2019), April 8-11, 2019, State Key Laboratory of Estuarine and Coastal Research (East China Normal University)
26.	Transfer Factors and Transfer Coefficient Studies at Kaiga Generating Station Theme Meeting on "Environmental Remediation Strategies for Radioactive Contamination", Safety Research Institute, AERB, Kalpakkam, March 14-15, 2019.
27.	Standardization of Methods for ^{14}Cand Tritium Measurements

	Workshop on Environmental Radioactivity Measurements, July 25-26, 2019, IGCAR, Kalpakkam.
28.	Analytical procedures for measurements ^{14}C in stack effluents and environment Theme Meeting on Measurement of C-14 Activity in effluent release and environment samples, AERB, Mumbai, Feb. 19, 2019
29.	Environmental Radioactivity: Three Decades of Studies on Baseline Levels and Impact Assessments on the West Coast of India National Conference on Environmental Radiation: Impact on Society and Its Implications (ERISI-2019), Jahavpur University, Nov. 15-16, 2019

Impact of publications in terms of

Google scholar citation as on December 2020

	All	Since 2015
Citations	1135	656
h-index	20	13
i10-index	32	14

Conferences / Seminars / Workshops / Symposia organized

- Organized the 2nd International Conference on Polonium and Radioactivity Pb isotopes (INCO-PoPb-2013), Mangalore University, February 10-13, 2013 in which participants from 24 countries had participated.

- Organized the 30th Indian Association for Radiation Protection (IARP) 29th National Conference (IARPNC-2012) with focal theme, "Radiological Protection and Safety in Nuclear Reactors and Radiation Installations", Mangalore University, March 15-17, 2012 in which 228 participants from premier research institutions and Universities presented papers.

- Organized the 20th National Symposium on Radiation Physics (NSRP-20) with focal theme, "Radiation Measurements: Challenges in lowering of detection limits", Mangalore University, during Oct 28-30, 2015 in which 190 participants from premier research institutions and Universities presented papers.

- Organized the International Workshop on Carbon-14 and Tritium Measurements in Environmental Matrices, Nov. 6-10, 2017, CARER, Mangalore University, India. Scientists from BARC, IGCAR, ESL's, NPCIL, AERB, and CARER derived benefit from this workshop. Experts from Lund University, Sweden, University of Southampton, UK, and University of Georgia, USA, and BARC were resource persons for this workshop.

- Organised the Indo-German workshop on Radon measurements, February 22-23, 2018, CARER, Mangalore University

- Organised the course on Advanced Direct Reading Radon, Thoron and Progeny Sensors during under MHRD, Govt. of India programme on Global Initiative for Academic Networking, with expert faculty from Hirosaki University, Japan, April 22-27, 2019, CARER, Mangalore University.

- Organised the course on Applications of Nuclear Techniques in the Investigation of Monsoon Dynamics and Atmospheric Pollutants, under MHRD, Govt. of India programme on Global Initiative for Academic Networking, with expert faculty from Wayne State University, USA, *May 14-24, 2019, CARER,* Mangalore University.

- As a member of the International Advisory Committee involved in organizing the 3rd International Conference on Po and Radioactive Isotopes, scheduled for Oct. 2015 in the University of Turkey, Turkey.

- As a member of the International Advisory Committee involved in organizing the 4th International Conference on Polonium and Radioactive Pb Isotopes (INCO-PoPb-2019), April 8-11, 2019, State Key Laboratory of Estuarine and Coastal Research (East China Normal University), Shanghai, China

Awards / Fellowship / Recognition

Award received	**Name of the body/society**
Sir C V Raman State Award (for Physical Sciences)	Karnataka State Council for Science and Technology, Govt. of Karnataka, for the year 2017
Dr. A K Ganguly Award	Indian Association for Radiation Protection (IARP) For outstanding work in the field of radiation protection and radiation in the environment in the year 2012.
ISRP-NUCLEONIX Award	Indian Society for Radiation Physics (ISRP) Best experimental research award - 20th National Symposium on Radiation Physics (NSRP-20), Oct. 27-30, 2015, Mangalore University.
Best Paper Award	Indian Association for Radiation Protection (IARP) Conference, March 19-21, 2014, BARC, Mumbai.
Best Paper Award	5th BRNS-DAE Symposium on Nuclear Analytical Chemistry-V, January 20-24, 2014, Mumbai.
Best Paper Award	National Conference on Radiation Awareness and Detection in Natural Environment (RADNET-I). June 15-17, 2015, Tehari Garhwal,
Best Paper Award	13th DAE-BRNS Nuclear and Radiochemistry Symposium (NUCAR-2017), February 6-10, 2017, KIIT University, Bhubaneswar (best oral presentation).
Best Paper Award	13th DAE-BRNS Nuclear and Radiochemistry Symposium (NUCAR-2017), February 6-10, 2017, KIIT University, Bhubaneswar (best poster presentation).
Best Paper Award	National Conference on Radiation Physics (NCRP), Nov. 23-25, 2017, Bangalore University.
Outstanding Contribution Award	5th International Conference on Environmental Radioactivity (ENVIRA, 2019), September 8-13, 2019, Praha, Czech Republic.

Membership of Professional Bodies

Name of the Body/Society	Name of Award / Fellowship / Nature of Membership / Editorship
Expert member	International Atomic Energy Agency (IAEA) mission to give recommendations to Member Countries on radiation protection and measurements of radionuclides in environmental matrices
Secretary	Indian Society for Radiation Physics (ISRP) (2013-2015)
Executive Committee Member	Indian Association for Radiation Protection (IARP), 2015
Life Member	Indian Association for Radiation Protection (IARP)
Life Member	Indian Society for Radiation Physics (ISRP) (2013-2015)
Life Member	Nuclear Track Society of India
Life Member	Geochemical Society of India
Member	National Association for Application of Radioisotopes and Radiation in Industry (NAARI), India
Executive Committee Member	NAARI, Mangalore Chapter
Member	Board of Examination for M. Tech. and Ph. D., Homi Bhabha National Institute (HBNI), BARC, Mumbai and other universities within Karnataka and other states
Member	International Steering Committee to organizing the International Conference series on Polonium and radioactive Lead istopes

Any other Information

Lecture series conducted abroad

On invitation from intuitions from abroad or as Expert, International Atomic Energy Agency (IAEA) missions to member countries delivered a series of lectures and trained scientists in the following institutions/countries:

i. Higher Institute of Medical Technologies of Tunis (ISTMT), Tunisia (April 6-11, 2015): invited to deliver 8 lectures on radiation protection, measurements of low-level radioactivity in the environment, gamma and alpha spectrometry, estimation on transfer factors for radionuclides in food pathway in the vicinity of phosphate industries. Also, trained the scientists of the ISTMT in low-level radiation measurements.

ii. University of Botswana, Gaborone, Botswana (September. 15-Oct. 2, 2010): invited to deliver lectures on radiation protection, measurements of low-level radioactivity and impact assessment of the uranium mining on the environment around Serule uranium mining region, Botswana.

iii. Visited Radiation Protection Department, Ministry of Health, Kuwait (August 17-22, 2013) as an Expert Member of IAEA mission to Kuwait and delivered 6 lectures and trained the scientists of Department of Radiation Protection, Ministry of Public Health, Kuwait in radioactivity testing and certification of food materials and drinking water.

iv. Visited Radiation Protection Department, Ministry of Health, Bahrain (November 19-13, 2014) as an Expert Member of IAEA Advisory mission to Kuwait and delivered 8 lectures and trained the scientists of radiation protection laboratories and professionals of oil industries of the Gulf region in the assessment of naturally occurring radioactivity material (NORM).

Countries visited on research collaboration

Spain, France, Botswana, South Africa, Tunisia, Japan, China, Malaysia, Bahrain, and Kuwait for research collaboration and on invitation to deliver lectures. The collaborating institution details are provided in the respective section above.