

CURRICULUM VITAE

PERSONAL DETAILS

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Research interests: Electronics, radon, thoron and progenies in dwellings, ionizing radiation, heavy metal analysis.

EDUCATIONAL BACKGROUND

2016-2023: PhD (Physics)- Kenyatta University, Kenya.
Thesis: Risk assessment due to naturally occurring radioactive materials in Kilimambogo, Kenya.
2009-2011: MSc (Electronics and Communication Engineering (Telecommunications) - Chongqing University, China.
Thesis: Multi-beam method to increase the stability of bridge deflection measurement,
2008-2009: Chinese language - Beijing Language and Culture University;
1997-2000: Bachelor of Education (Science)-Kenyatta University)
1992-1995: K.C.S.E -Bishop Gatimu Ngandu Girls' High School.

WORK EXPERIENCE

Jan 2025 to date: Lecturer, Department of Physical Sciences, University of Embu
2024: Trainer/ lecturer, Thika Technical and Training Institute
2022 – 2024: Ndia Technical & Vocational College Trainer/ lecturer,
Registrar, Deputy Performance Coordinator and a WITED
Coordinator, Chair of alcohol and substance abuse committee. -
2011 – 2022: The Meru National polytechnic.
Trainer/ lecturer, Head of Department, Deputy Examination
Officer, Assistant sports officer, Departmental Quality Assurance
and Standards Officer, Research Coordinator and the CEO,
corruption prevention activities, Coordinator of Women in
Technical Education and Development (WITED), a member of
Performance Contracting committee among other committees.
A member of the Science Technology and Innovation (STI)
mainstreaming committee.
2001-2011: Physics and Mathematics teacher- Mariira Secondary School.
2001 Physics and Mathematics teacher- St. Catherine's Mt View
Academy.
Oct 2000-2001: Physics and Mathematics teacher-Gatanga Girls'High School.

PUBLICATIONS

1. P.W. Njoroge and **C. Nyambura** (2024). Risk Assessment of Resident Farmers in Kilimambogo, Kenya, Using RESRAD Computer Code. *International Journal of Scientific and Research Publications*, 14(9) 188-196. <https://www.ijsrp.org/research-paper-0924.php?rp=P15313539>
2. **C. Nyambura**, N. O. Hashim, M. W. Chege and S. Tokonami. (2024). Radiological health assessment of cassava samples from farms in Kilimambogo, Kenya. *Food and Public Health, Scientific and Academic Publishing*. 14 (1) 25 – 27. <https://doi.org/10.5923/j.fph.20241401.02>
3. **Nyambura C.**, Hashim N.O., Chege M.W., Tokonami S., and Omonya F.W. (2019). Cancer and non-cancer health risks from carcinogenic heavy metal exposures in underground water from Kilimambogo, Kenya. *Groundwater for Sustainable Development. Elsevier*. **10**: 1-5. <https://doi.org/10.1016/j.gsd.2019.100315>
4. **C. Nyambura**, S. Tokonami, N. O. Hashim, M. W. Chege, T. Suzuki, H. Kudo and M. Hosoda. (2019). Annual effective dose assessment due to radon and thoron progenies in dwellings of Kilimambogo, Kenya. *Radiation Protection Dosimetry*. <https://doi.org/10.1093/rpd/ncz090>
5. Chege M. and **Nyambura C.**, Review of radon and thoron research in Kenya: 1997–2017, *Radiation Protection Dosimetry*, **184(3-4)**:479–481. <https://doi.org/10.1093/rpd/ncz065>
6. M. W. Chege, N.O Hashim, **C. Nyambura**, A Mustapha, M. Hosoda and S. Tokonami. (2019). Radon and thoron: Radioactive gases lurking in earthen houses in rural Kenya: Review. *Frontiers in Public Health: Radiation and Health*. <https://doi.org/10.3389/fpubh.2019.00113>
7. F O Wanjala, N O Hashim, D Otwoma, **C Nyambura**, J Kebwaro, A Muring, J Bartilol, and M Chege (2019). Human exposure to background radiation in Ortum, Kenya, *Radiation Protection Dosimetry*, ncz264, <https://doi.org/10.1093/rpd/ncz264>.
8. Wanjala, F. O., Hashim, N. O., Otwoma, D., **Nyambura, C.**, Kebwaro, J., Ndege, M., and Bartilol, S. (2020). Environmental assessment of heavy metal pollutants in soils and water from Ortum, Kenya. *Environmental Monitoring and Assessment*, 192(2), 118. <https://doi.org/10.1007/s10661-020-8070-3>
9. Rotich C. K., Hashim N. O., Chege M. W. and **Nyambura C.** (2020). Measurement of radon activity concentration in underground water of Bureti sub-county of Kericho County Kenya, *Radiation Protection Dosimetry*, <https://doi.org/10.1093/rpd/ncaa193>.
10. Rotich C. K., Hashim N. O., Chege M. W. and **Nyambura C.** (2021). Naturally occurring radionuclides in soil samples of Bureti sub-County of Kericho County KENYA, *Radiation Protection Dosimetry*, <https://doi.org/10.1093/rpd/ncab006>.
11. Odongo W. O. G., Chege M. W., Shinji Tokonami S., Hashim N. O., Kranrod C. and **Nyambura C.** (2021). Radon and thoron exhalation rates from earthen building materials used in high background radiation areas of Homa and Ruri, Kenya. *Radiation Protection Dosimetry*, 197 (1): 12–18 <https://doi.org/10.1093/rpd/ncab156>
12. Danping L. Jintong J., Xuebin H., Xiaoping Z., Yong Y., Wenjiang F. and **Nyambura. C** (2011). Multi-beam method to increase the stability of bridge deflection measurement, *Optics & Laser Technology*, 43 (7): 1198- 1202. <https://ui.adsabs.harvard.edu/abs/2011OptLT..43.1198L/abstract>

SCHOLARLY PRESENTATIONS AT CONFERENCES/WORKSHOPS

1. C. Nyambura, N. O. Hashim, M. W. Chege, S. Tokonami, 2018, M. Hosoda and F.W. Omonya. Risk Assessment due to Consumption of Natural Radionuclides in Cassava from Kilimambogo, Kenya. The Ninth International Symposium on Naturally Occurring Radioactive Material, on 23-27 September 2019, in Denver, Colorado, USA
2. C. Nyambura, N. O. Hashim, M. W. Chege and S. Tokonami, 2018. Human exposure to radiation from consumption of cassava in Kilimambogo, Kenya. 1st International food safety conference held at Kenyatta University, 20th to 24th May, 2019.
3. C. Nyambura, S. Tokonami, N. O. Hashim, M. W. Chege, T. Suzuki, H. Kudo and M. Hosoda. Annual effective dose assessment due to radon and thoron progenies in dwellings of Kilimambogo, Kenya. Presented at the 9th International Conference on High Level Environmental Radiation Areas (ICHLERA 2018) held from 24th - 27th September, 2018 at Hirosaki University, Aomori, Japan.
4. C. Nyambura, N. O. Hashim, M. W. Chege and S. Tokonami, 2018. Effective dose equivalent due to radiation exposure from rocks in Kilimambogo, Kenya. Presented at the 1st International Annual Conference on Attaining Self Reliance Through Research, Innovation and Technology held between 21st and 23rd March 2018 at The Meru National Polytechnic, Kenya.
5. C. Nyambura, N. O. Hashim, M. W. Chege and S. Tokonami, 2018. Radioactivity and Risk Assessment of Soil Samples from Kilimambogo, Kenya. Presented at the 10th hope meeting held on 10th to 16th March, 2018 in Yokohama Japan.

REFEREES

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