

CURRICULUM VITAE

1.1 PERSONAL PROFILE

1.1.1 Personal Details

Name	Prof Sammy Letema
Department	Spatial and Environmental Planning, Kenyatta University
Designation	Associate Professor
Email	Letema.sammy@ku.ac.ke
Area of Specialisation	Environmental planning, management and sustainability
Research Interests	• Environmental infrastructure and services (sanitation, waste, water, energy) planning, governance and sustainability • Environmental planning, vulnerability and resilience
Google Scholar	SAMMY LETEMA
ORCID ID	• https://scholar.google.com/citations?user=tsj8fe8AAAAJ&hl=en&oi=sra • https://orcid.org/0000-0002-8766-0022

1.1.2 Academic and Professional Qualifications

2007-2012	PhD, Wageningen University, The Netherlands Thesis Title: Assessing Sanitary Mixtures in East African Cities
2000-2002	Master of Environmental Planning and Management, Kenyatta University Project Title: Peri-urban Service Provision Planning: Challenges and Prospects in Eldoret Municipality, Kenya
1993-1997	Bachelor of Environmental Studies (Planning & Management), Kenyatta University
2022	CREST Online Training Course for Supervisors of Doctoral Candidates at African Universities
2013	Teaching Methods
2013	Publishing in Scientific Research
2010	Techniques for Writing and Presenting a Scientific Paper
2001	Certificate in Public Private Partnerships for Urban Environmental Services, UNDP/Yale University
2015	Mwongozo Induction Programme for Board of State Corporations

2014	107 th Five day Corporate Governance Training Course for Directors. Sarova Whitesands Beach Hotel, Mombasa, Kenya 21-25 April 2014
2009	Integrated Water Management Action Plan
2007	Social Theory and the Environment: An Introduction into Ecological Modernization Theory
2007	Research Methodology 1: From Topic to proposal

1.1.3 Employment History

2025-Date	Associate Professor, Department of Spatial and Environmental Planning
2019-2024	Senior Lecturer, Department of Environmental Planning and Management, Kenyatta University
2012-2019	Lecturer, Department of Environmental Planning and Management, Kenyatta University
2005-2012	Tutorial Fellow, Department of Environmental Planning and Management, Kenyatta University

1.2 PUBLICATIONS

1.2.1 Refereed Journals

1. Mugah and Letema (2025). Sustainability assessment of residential neighbourhoods with varying densities in Nairobi, Kenya. *Discover Cities* (2025) 2:63, <https://doi.org/10.1007/s44327-025-00101-2>
2. Mugah F, Wangai P and Letema S (2025). Exploring the accessibility of amenities across three distinct residential neighbourhoods: a case study of Nairobi city, Kenya. *Proceedings of the Institution of Civil Engineers - Urban Design and Planning*, <https://doi.org/10.1680/jurdp.24.00067>
3. Dorcas Wambui Kariuki, Godwin Opinde & Sammy Letema (06 Jul 2025): Patterns of perception of ecosystem services associated with trees outside forests along an urban-rural gradient. A case of Murang'a municipality, Kenya, *Forests, Trees and Livelihoods*, DOI: 10.1080/14728028.2025.2530023
4. Dorcas Wambui Kariuki, Godwin O. Opinde & Sammy Letema (24 Mar 2025): Exploring the diversity and distribution of trees outside forests along the urban-rural gradient of Murang'a municipality, Kenya, *Arboricultural Journal*, DOI: 10.1080/03071375.2025.2477955
5. Esther Nabwile Bitolitoli, Mourine Jerono Muta, Ezekiel Mugendi Njeru, John Paul Oyore, Johnstone Neondo, Kennedy Awuor, Daniel Wambiri Muthee, Stephen Super Barasa, Sammy Letema, Richard Okoth Oduor (2025). Bacteria Contamination and Antibiotic Resistance Profile on Worn Reusable Facemasks in Githurai Market, Kenya.

International Journal of Food Science and Biotechnology, 2025, Vol. 10, No. 2, pp. 33-48, <https://doi.org/10.11648/j.ijfsb.20251002.12>

6. Gertrude Akello, Godwin Opinde, and Sammy Letema (2025). Valuation of regulating ecosystem services in Africa: a review of policy impact reporting. *Integrated Environmental Assessment and Management*, 2025, 21(2), 279–290. <https://doi.org/10.1093/inteam/vjae032>
7. Yoksa Salmamza Mshelia, Simon Mang'erere Onywere and Sammy Letema (2024). Modeling the spatial dynamics of land cover transitions and vegetation conditions in Abujacity, Nigeria. *Urbanization, Sustainability and Society* Vol. 1 No. 1, 2024 pp. 115-132. DOI 10.1108/USS-12-2023-0026
8. Dorcas Wambui Kariuki, Sammy C. Letema and Godwin O. Opinde (2024). Determinants of spatial distribution of trees outside forests along urban-rural gradients: A review. *Journal of Environment and Sustainability* Volume 8 Number 1 (2024) 103-122. DOI: <https://doi.org/10.22515/sustinere.jes.v8i1.385>
9. Arcadius Martinien Agassin Ahogle & Sammy Letema (2024) Irrigated urban agriculture: a mixture of farming scales, water flows and actors in Nairobi, Kenya, *Water International*, 49:2, 144-163, DOI: 10.1080/02508060.2024.2320002
10. Gert Jan Veldwisch, Priyanie Amerasinghe, Sammy Letema & Matthijs T. Wessels (2024) The practices and politics of irrigated urban agriculture, *Water International*, 49:2, 129-143, DOI: 10.1080/02508060.2024.2325800
11. Kibet JJ, Letema S (2024) Energy use and greenhouse gas emissions in selected tea factories in Kenya. *PLOS Clim* 3(10): e0000329. <https://doi.org/10.1371/journal.pclm.0000329>
12. Tinega N. Joseph, Omosa B. Isaiah, Letema C. (2024). Chromium (VI) adsorption from steel industry wastewater using biomass and agro-based adsorbents: A Review. *Journal of Agriculture Science & Technology JAGST* 23 (1) 2024, 51-77
doi: 10.4314/jagst.v23i1.5
13. Ocholla G., Mireri C. & Letema S. (2024). Influence of Household Socioeconomic Factors on User's Satisfaction with Sanitation Technologies in Kisumu City, Kenya. [Environmental Technology and Science Journal / Vol. 15 No. 1 \(2024\).](#) DOI:[10.4314/etsj.v15i1.20](https://doi.org/10.4314/etsj.v15i1.20)
14. Luther Okore¹, James Koske & Sammy Letema (2024). Scenarios for Adoption of Low-Carbon Household Cooking Fuels in Biomass-Dependent Informal Settlements of Urban Sub-Saharan Africa: A Critical Analysis of Kisumu City. [Vol 7 No 1 \(2024\): East African Journal of Environment and Natural Resources.](#) DOI: <https://doi.org/10.37284/eajenr.7.1.1704>
15. Purity Njeri, Gerryshom Munala & Sammy Letema (2023). Environmental sustainability performance of eleven upgraded informal settlements in Kenyan cities. *Journal of Housing and the Built Environment* <https://doi.org/10.1007/s10901-023-10060-y>

16. Giche Yadesa Hirpa, Sammy C. Letema, Felix L.M. Ming'ate (2023). Effect of Forest Landscape Restoration on Ecosystem Services in Ethiopia: Review for Future Insight. Indonesian Journal of Social and Environmental Issues (IJSEI), 4 (3), 327-338
<https://ojs.literacyinstitute.org/index.php/ijsei>
17. Stephen Balaka Opiyo, Sammy Letema & Godwin Opinde (2023): Characterizing rural households' livelihood vulnerability to climate change and extremes in Migori River Watershed, Kenya, Climate and Development, DOI: 10.1080/17565529.2023.2243612
18. Joseph Tinega, Isaiah Omosa, & Sammy Letema (2023). POTENTIAL REMOVAL OF CHROMIUM (VI) IONS BY MACADAMIA NUTSHELL FROM STEEL INDUSTRY WASTEWATER. Environmental Engineering and Management Journal, Vol. 22, No. 3, 411-427 <http://doi.org/10.30638/eemj.2023.032>
19. Arcadius Martinien Agassin Ahogle, Nicholas K. Korir, Pascal Houngnandan, Lina Abu-Ghunmi & Sammy Letema (2023): Bacterial hazards in urban stream irrigation in peri-urban interface of Nairobi-Machakos counties, Kenya, International Journal of Environmental Studies, DOI: 10.1080/00207233.2023.2216605
20. Stephen Balaka Opiyo, Godwin Opinde & Sammy Letema (2023): A perspective of sustainable livelihood framework in analysis of sustainability of rural community livelihoods: evidence from Migori River watershed in Kenya, International Journal of River Basin Management, DOI: 10.1080/15715124.2023.2216019
21. Ahogle Arcadius Martinien Agassin, Letema Sammy, Schaab Gertrud, Ngure Veronica, Mwesigye Abraham R., Korir Nicholas K. (2023). Heavy metals and trace elements contamination risks in peri-urban agricultural soils in Nairobi city catchment, Kenya. Frontiers in Soil Science, Volume 2.
<https://www.frontiersin.org/articles/10.3389/fsoil.2022.1048057>
22. Stephen Balaka Opiyo, Godwin Opinde & Sammy Letema (2022): Spatio-seasonal variations in water quality status of Migori River in Kenya and associated household health risk implications: an application of a multidimensional water quality index approach, International Journal of River Basin Management, DOI: 10.1080/15715124.2022.2138409
23. Stephen Balaka Opiyo, Godwin Opinde & Sammy Letema (2022). Dynamics and drivers of land use and land cover changes in Migori River Watershed, western Kenya region. Watershed Ecology and the Environment Volume 4, 2022, Pages 219-232, <https://doi.org/10.1016/j.wsee.2022.11.008>
24. Kinuthia, H., Majale, C. & Letema, S. (2022). Patterns and Drivers of Land Development in (Greater) Eastern Bypass Peri-Urban Area of Metropolitan Nairobi. AJSTE 2022 Volume 3, 2022. <http://journal.kyu.ac.ke/index.php/library1>
25. Stephen Muathe, Paul Sang, Lucy Kavinda, Sammy Letema, Samuel Maina & Kenneth Chelule (2022). Walking the startups journey in Kenya: Documentation of successes and pitfalls between 2010-2020. International Journal of Research in Business and Social Science 11(8)(2022) 387-400.
<https://doi.org/10.20525/ijrbs.v11i8.2159>

26. Kibet J, Letema S. Environmental Impacts of Energy Usage in Selected Tea Factories in Kenya. *J Mod Green Energy*, 2022; 1: 7. DOI: 10.53964/jmge.2022007
27. Gordon Ocholla, Sammy Letema and Caleb Mireri (2022). Socioeconomic determinants of water delivery satisfaction in a medium sub-Saharan Africa city: A case of Kisumu, Kenya. *Water Supply* Vol 22 No 12, 8682. <https://doi.org/10.2166/ws.2022.388>
28. M.K. Luther Okore, James Koske & Sammy Letema (2022). Household-based determinants of cooking and heating fuel mixes in informal settlements of Kisumu City, Kenya. *Energy for Sustainable Development* 71 (2022) 64-72. <https://doi.org/10.1016/j.esd.2022.09.002>
29. Stephen Balaka Opiyo, Godwin Opinde & Sammy Letema (2022). Multi-level Governance of Watersheds in Kenya under Devolution Framework: A Case of Migori River Watershed. *International Journal of River Basin Management*. <https://doi.org/10.1080/15715124.2022.2118284>
30. Joseph K. Maithya, Felix L.M. Ming'ate & Sammy C. Letema (2022). The Impact of Wetland Utilisation on Provisioning Ecosystem Services in Nyando Wetland, Kenya. *Journal of Environmental Assessment Policy and Management*. <https://doi.org/10.1142/S1464333222500235>.
31. Blandine Akimana & Sammy Letema (2022). Assessment of Quality of Household Solid Waste Collection by Private Service Providers in Bujumbura City. *Ghana Journal of Geography*, Volume 14 Issue 1.
32. YM Salmamza, SM Onywere, SC Letema (2022). GEOSPATIAL DIMENSIONS OF LAND COVER TRANSITIONS AND LAND SURFACE TEMPERATURE IN ABUJA CITY, NIGERIA. *The International Archives of Photogrammetry, Remote Sensing and Spatial Information Sciences*, Volume 43, Pages 699-704.
33. R. Kanda, C. Sang and S. Letema (2022). SPATIO-TEMPORAL DYNAMICS OF LAND USE AND LAND COVER IN ELGEYO ESCARPMENT, KENYA. *E. Afri. Agri. For. J* (2022, Volume 88 (1), Pg 1-15).
34. R. Kanda, C. Sang and S. Letema (2022). INFLUENCE OF LAND USE LAND COVER CHANGES ON SOIL EROSION IN ELGEYO ESCARPMENT, KENYA. *E. Afri. Agri. For. J* (2022, Volume 88 (2), Pg 75-87).
35. Stephen Muathe, Paul Sang, George Kosimbei, Sammy Letema, Simeon Nyachae, Salima Kiriago, Kenneth Chelule, Erustus Ouko, Margaret Mutua, Samuel Maina (2022) Understanding Startups Ecosystem in Kenya: Drivers, Challenges, and Opportunities. *Journal of Business*, Volume 10 Issue 3 Pages 138-146.
36. H Kinuthia, C Majale & S Letema (2021). Influence of public policy planning on peri-urban land speculation in (Greater) Eastern Bypass in Nairobi Metropolitan. *Land Use Policy* Vol. 107, 105515.
37. Joseph K Maithya, Felix LM Ming'ate, Sammy C Letema (2021). Local Communities' Awareness on Payments for Ecosystem Services for Improved Livelihood and

- Conservation of Nyando Wetland, Kenya. Tanzania Journal of Science, Volume 47 Issue 3 Pages 969-980.
38. Fredah Cherotich, Sammy Letema (2021). Settlement Schemes and their Implication on Eastern Mau Water Catchment, Kenya. East African Journal of Environment and Natural Resources, Volume 4 Issue 1 Pages 39-51.
 39. Nancy Chemutai Koech, Sammy C Letema, James Kibii Koske (2021). Impact of Rainfall Variability on Rural Tea Roads in Kericho, Kenya. African Journal of Environment and Natural Resources, Volume 3 Issue 1 Pages 38-48.
 40. Styvers Kathuni, Daniel Akunga, Esther Kitur, Sammy Letema (2021). SCHOOL HYGIENE PROMOTION APPROACHES AND THEIR INFLUENCE ON PUPIL'S HYGIENE PRACTICES IN PUBLIC PRIMARY SCHOOLS IN DAGORETTI, NAIROBI CITY COUNTY, KENYA. Global Journal of Health Sciences, Volume 6 Issue 1.
 41. Joseph Maithya, Felix Ming'ate, Sammy Letema (2020). A Review on Ecosystem Services and their Threats in the Conservation of Nyando Wetland, Kisumu County, Kenya. Tanzania Journal of Science, Volume 46 Issue 3 Pages 711-722.
 42. PW Mwangi, FN Karanja, PK Kamau, SC Letema (2020). Impact of Urban Forms on 3d Built-Up Intensity Expansion Rate from Aerial Stereo-Imagery. ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Volume 4 Pages 203-208.
 43. Felix Lamech Mogambi Ming'ate, Sammy Letema, Kennedy Obiero (2019). Designing Institutional Arrangements for Collaborative Governance of Forests in Kenya Using a Delphi Process. Journal of Scientific Research & Reports, Volume 25 Issue 4 Pages 1-11.
 44. Njiru, C.W. and Letema, S. (2018). Energy Poverty and Its Implication on Standard of Living in Kirinyaga, Kenya. Journal of Energy Volume 2018, Article ID 3196567, 12 pages.
 45. Njiru, C.W. Letema, S. and Maingi, S.M. (2018). Socio-Economic Factors of Small Hydropower and Biogas Plants and their Implications for Rural Energy Poverty Alleviation in Kirinyaga, Kenya. Journal of Natural Resources and Development 2018; 08: 101-114.
 46. Mingate, FM., Letema, S.C, & Obiero, K. (2016). Designing a functional community forest association: a case of Mueleshi, Kakamega County, Kenya. Asian Journal of Applied Science Vol 04 Issue 05, October 2016.
 47. Afuye, F., Letema, S. & Munala G. (2016). Application of Motivation in Nigeria Construction Industry: Factor Analysis Approach. International Journal of Economics and Finance; Vol. 8, No. 5.
 48. Afuye, F., Letema, S. & Munala G. (2016). Impact of Motivation on Productivity of Craftsmen in Construction Firms in Lagos, Nigeria. International Journal of Economics and Finance; Vol. 8, No. 4.

49. Letema, S., van Vliet, B. & J.B. van Lier (2014). Sanitation policy and spatial planning in urban East Africa: Diverging sanitation spaces and actor arrangements in Kampala and Kisumu. *Cities* 36 (2014) 1-9.
50. Malekpour, S., Langeveld, J., Letema, S., Clemens, F. & J.B. van Lier (2013). Judgement under uncertainty; a probabilistic evaluation framework for decision-making about sanitation systems in low-income countries. *Journal of Environmental Management* 118 (2013) 106-114.
51. Letema S., van Vliet B. and J.B. van Lier (2012). Satellite Sanitary Systems in Kampala. *Environmental Engineering Science*, Vol 25 (5) 291-296.
52. Gábor L. Szántó, S. Letema, J.T. Tukahirwa, S. Mgana, P.J.M. Oosterveer & J.C.L. van Buuren (2012). Analyzing sanitation characteristics in the urban slums of East Africa. *Water Policy* 14 (2012) 613-624.

1.2.2 University Level Scholarly Books

1. Letema, S. (2012). *Assessing Sanitary Mixtures in East African Cities*. Wageningen Academic Publishers, Wageningen, Netherlands. ISBN: 978-90-8686-215-3.

1.2.5 Book Chapters

1. Letema S. and van Vliet B. (2014). Converging Scales of Urban Sanitation Infrastructure and Management. *In Urban Waste and Sanitation Services for Sustainable Development: Harnessing Social and Technical Diversity in East Africa*. van Vliet B. van Buuren J. and Mgana S. New York, Routledge: 129-141.
2. Letema S. van Vliet B. and van Lier J.B. (2010). Reconsidering Urban Sewers and Treatment Works in East Africa as Interplay of Flows, Networks and Spaces. *In Social Perspective on the Sanitation Challenge*. van Vliet, G. Spaargaren and P. Oosterveer (ed). Dordrecht, Springer: 145-162.
3. Mireri, C. and Letema, S. (2010). Review of Environmental Governance in Kenya: Analysis of Environmental Policy and Institutional Frameworks. *In Handbook of Environmental Policy*. Meijer, S. and A. der Ber (ed).
4. Mireri C., Letema S. and Majele C. (2007). Water and Sanitation Services Delivery in Kenya. *In Environment and Sustainable Development: A Guide for Tertiary Education in Kenya, Volume 2*, School of Environmental Studies and Human Science, Kenyatta University, Nairobi.
5. Ndungu A. and Letema S.C. (2005). Sustainable Environmental Planning and Management: Lessons for and Experiences in Kenya. *In Role of African Universities in Attainment of the Millennium Development Goals Conference*, Kenyatta University, Nairobi.
6. Letema, S. and P.K. Koskey (2004). The Status, Constraints and Environmental Health Implications of Service Provision and Management in Informal Settlements of Eldoret Municipality, Kenya. *In Status of Environmental Health Education in the Eastern*

Africa Region: Opportunities, Challenges and the Way Forward. Joypet Services and Printers, Nairobi.

7. Koskey, P.K. and Letema, S. (2004). Environmental Health Education in Urban Environmental Planning and Management: The Basis, Relevance and Reflected Practice. In *Status of Environmental Health Education in the Eastern Africa Region: Opportunities, Challenges and the Way Forward*. Joypet Services and Printers, Nairobi.

1.2.7 Reviewed Conference Papers

1. Stephen Muathe, Lucy Kavinda, Samuel Maina, George Kosimbei, Sammy Latema, Kennedy Chelule and Paul Sang (2022). Nexus between Universities Incubators and Start-Ups Growth Ecosystem in Kenya. 4th International Business Research and Industrial Conference, 23-24 June 2022. <http://www.ku.ac.ke/ibric/>
2. H Kinuthia and S Letema (2021). An Assessment of Peri Urban Land Speculation and the Influence of Public Policy Planning and Implementation. *The 6th Avh-Kenya "KOLLEGS" Conference, October 6-8 2021* [4], 2nd quarter 2021/2022. <http://repository.kyu.ac.ke/123456789/723>
3. H Kinuthia, C Majale and S Letema (2021). *The Behaviour of Land Prices During the Road Planning and Development along (Greater) Eastern Bypass*. KyU 5th Annual International Conference. <http://repository.kyu.ac.ke/123456789/773>
4. Njiru C.W., Letema S.C., Maingi S.M., Gichohi P.M. (2014). Renewable energy policies and practices in Kenya and their contribution to appropriate technology adoption, A Conference Paper presented in the 6th International Conference on “Appropriate Technology for the 21st Century: Technological Innovation to empower Africa” hosted at Kenyatta University, Nairobi, Kenya, November 25th-29th, 2014.
5. Letema S. van Vliet B., van Buuren, J. and van Lier, J.B (2009). Small-Scale Satellite Systems as Alternative Sewerage Provisioning in Kampala City, Uganda. Decentralised Sanitation Conference, Kathmandu, Nepal, 11-13 November, 2009.
6. Letema S. van Vliet B. and van Lier J.B. (2010). Reconsidering urban sewer and treatment facilities East Africa as Interplay of material flows, sanitary networks and space demands. Sanitation Challenge: New Sanitation Concepts and Models of Governance IWA Conference, Wageningen, May 19-21, 2008.

1.2.10 Consultancy and Project Reports

1. Project Report (2022): Understanding Kenyan Startup Ecosystem: Report on the survey findings of startups and startup ecosystem stakeholders in Kenya submitted to The Secretary of State for Foreign, Commonwealth and Development Affairs at the Foreign, Commonwealth and Development Office (FCDO).

2. Consultancy Report (2021): Terms of Reference for Environmental and Social Impact Assessment (ESIA) as part of Consultancy Services for the Detailed Design of Namanga Dam Water Supply and Sanitation Project.
3. Consultancy Report (2021): Terms of Reference for Environmental and Social Impact Assessment (ESIA) as part of Consultancy Services for the Review of Feasibility Study, Preparation of Detailed Design and Tender Documents of the Proposed Pesi Dam Water Supply Project.

1.3 QUALITY TEACHING, LEARNING AND MENTORSHIP

1.3.1 Training in Higher Education

1. 2021/2022: CREST Online Training Course for Supervisors of Doctoral Candidates at African Universities by Stellenbosch University, South Africa

1.3.2 Ongoing Supervisions

1. Siddy Wambui Gachiri N50/31372/15. Sanitation Facilities Usage in Kibera Informal Settlement, Nairobi City County, Kenya.
2. Otieno Ochieng N50/CTY/PT/3112/2015. Development Control and access to Basic Services in Nairobi-Machakos Counties Pwwri-Urban Interface.
3. Faith Jepkorir Kemboi N50/39107/2017. Sanitary Provision and Sanitization in Markets during Covid-19 Pandemic in Eldoret, Uasin Gishu County, Kenya.
4. Charles Jjuuko N85EA/28704/2019. Sedimentation and Carbon Storage in Lubigi Wetland under Different Catchment Land Management Practices in Kamapla City, Uganda
5. Enock Orina N85/20784/2020. Impact of Agricultural Land Use on Riverine Ecosystem Quality of Awach Kasipul Sub-Catchment, Kenya
6. Dorcas W. Kariuki N85/21602/2021. Determinants of Distribution of Trees Outside Forests along Urban-Rural Transition Gradient in Kiharu, Murang'a County
7. Hirpa G. Yadesa N85F/22392/2021. Impact of Green Legacy Programme on Forest Landscape Restoration and Improvement of Community Livelihoods in Elu Galan District, Ethiopia
8. Getrude Akello NE85/20100/2021. Modelling Natural Hazard Regulating Ecosystem Services In Mt. Elgon, Uganda
9. Bul Duot Kuer N85EA/20569/2022. Impact of Bentiu Oil and Gas Production on Environment and Community Livelihoods in Unity State, South Sudan.

1.3.3 Completed Supervision of Postgraduate Students

1.3.3.1 Completed Supervision of Masters

1. 2023: Joy Jepng'etich Kibet N50/28218/2019. Comparison of Different Energy Use and Environmental Impacts by Four Tea Factories in Kenya.
2. 2021: Bladine Akimana N50EA/28124/2018. Assessment of Quality of Municipal Waste Collection Services in Bujumbura City, Burundi.
3. 2021: Fredah Cherotich N50/27737/2018. Human Settlement and its Implication on Watershed Management in East Mau Catchment, Nakuru County.
4. 2021: Nancy Koech N50/25132/2018. Effects of Rainfall Variability on Rural Road Infrastructure in Kericho County, Kenya.
5. 2021: Poulman Omusisi N50/38972/2016. Urban Development and its Implications on Nairobi River Riparian Zone, Nairobi City County, Kenya.
6. 2021: Styvers K. Kathuni Q21/CTY/PT/28807/2014. School Hygiene Promotion Approaches and their Influence on Pupil's Hygienic Practices in Public Primary Schools in Dagoretti, Nairobi City County, Kenya
7. 2019: Gilbert Aloo Obiero N50/33458/2014. Informal Waste Picking Enterprises and their Contribution to Urban Livelihoods in Embakasi, Nairobi City County, Kenya.
8. 2019: Lydia Mutie H60/CE/23036/2011. Adoption of Community Hygiene Strategies for Safe Water and Sanitation among Mothers of Under Fives in Kitui County, Kenya.
9. 2018: Pauline Tolo Ogola N50/24881/2011. Human Population Growth and its Implications on The Use and trends of Land Resources in Migori County, Kenya.
10. 2018: Wambui L. Kimemia N50/CTY/PT/23011/2013. Ecological and Socio-Economic Valuation of Manguo wetland, Kiambu County.
11. 2017: Agness Mwongeli Chandago N50/CTY/PT/31373/2015. Revitalisation of Coconut Sub-Sector to Enhance Sustainable Rural Livelihoods in Rabai, Kilifi County, Kenya.
12. 2016: Njiraini Robert Munene N50/CTY/PT/24625/2013. Common Open Spaces for Urban Poor: Planning and Management Paradox in Kibera Soweto Slum, Nairobi County.
13. 2016: Samuel Gatheru Kanyoro N50/CTY/PT/27708/2013. Assessing Devolved Government and Development Control During Transition: A Case Study of Nanyuki Town, Laikipia County.
14. 2015: Samuel Rono Kimeto NREM/PGE/004/12 Appropriateness of Solid Waste Management Practices in Kericho Township, Kenya.
15. 2015: Daniel M. Murithi N50/CTY/PT/26806/14 Enforcement of Development Controlled in Syokimau Residential Neighbourhood, Machakos County.
16. 2014: Polycarp N. Mogusu N50/25152/2012 Physical Characteristics and Utilization of Urban Open Spaces. A Case of Uhuru Park, Nairobi County.

17. 2014: Absolom K. Tesot N50/23458/2012 Environmental Implications of Charcoal Business in Narok South Sub-County, Narok County. 2014: Philip Kimanzi Performance of Non State actors in Provision of Water along Kiambere-Mwingi Water Supplier Pipeline in Kamuwongo division, Kitui County.
18. 2014: Barnabas Kipsang N50/CTY/PT/22730/2012. Peri-Urban Land Use Change and Environmental Control in Nandi Hills Town, Nandi County
19. 2013: George O. Ochola N50/20737/2012. Urban Water Supply Divide in Migori Town, Migori County
20. 2013: Linda. M. O'walukano N50/23485/2011. The Potential of Saiwa Swamp Ecosystem for Ecotourism Development.

1.3.3.2 Completed Supervision of PhD

1. 2024: Martinien A.A. Agassin N85F/28008/18. Peri-Urban Agro-Systems Dynamics and their Implications on Soil and Plant Contamination in Nairobi-Machakos County Interface, Kenya.
2. 2024: Joseph Tinega N85/28009/18. Potential Adsorption of Chromium (IV) Ions from Steel Industry Wastewater by Carbonized Macadamia Nutshell.
3. 2024: Okore Luther King Martin N85/39296/2016. Strategies for Low-Carbon Household Energy Uptake among the Urban Poor in Western Kenya's Cities.
4. 2024: Yoksa Mshela Salmanza N85F/38736/2016. Modelling Land Use Transitions and their Implications on Microclimate of Abuja Nigeria.
5. 2023: Stephen Opiyo. N85/28443/19. Linkages between Land Use Cover Changes and Community Livelihoods in Migori River watershed, Kenya.
6. 2023: Philip M. Kiama N85/22657/2011. Development Control and Standards in Decentralized Sanitation Systems in Karengata and Ongata Rongai, Kenya.
7. 2022: Hannah W. Kinuthia N85/37554/2016. Nexus between Infrastructure Public Policy Planning, Land Speculation and Development in (Greater) Eastern Bypass, Kiambu County, Kenya.
8. 2021: Joseph Maithya N85/22977/2012. Wetland Utilization and Community Perception on Payment for Ecosystem Services for Conservation of Nyando Basin Wetlands.
9. 2020: Purity Muthoni N85/31094/2015. Environmental Sustainability in Informal Settlement Upgrading Programs in Kenyan Cities.
10. 2020: Patricia Mwangi N85/33297/2015. Modelling the Spatial Relationship between Built-up Volumes and Surface Urban Heat Islands in Upper Hill, Nairobi City County, Kenya.
11. 2019: Godwin Opinde N85/33509/2014. Integration of Motorcycle Transport in Selected Urban Areas and its Implication on Safety and Livelihoods, Kenya.
12. 2018: Christine W. Njiru N85/20721/2012. Sustainability of Small Hydro and Biogas Plants and their Contribution to Energy Poverty Alleviation in Kirinyaga County.

13. 2017: Lucy W. Nganga N85/20710/2012. The Potential for Soil Carbon Sequestration under Different Land Management Practices in Small Holder Farms of Muranga County, Kenya.
14. 2016: Afuye Funzo N85F/24346/2013. Motivation and its Impacts on Workers' Productivity in Construction Firms in Lagos, Nigeria.

1.4 PROFESSIONAL/CONSULTANCY

1.4.1 Networks/Collaborations

1. 2022-2023: Networking with Wageningen University (Prof Gert Jan Veldwisch) and International Water Management Institute-Colombo (Dr Priyane Amerasinghe) as guest editors of Water Internal Special Issue: Irrigation in urban catchments: Politics, practices and technologies.
2. 2020: Networking and collaboration with Brunel University London in writing research grants.
3. 2021-2022: Networking and collaboration between Kenyatta University, Kenya Industrial Research and Development Institute, MegaGap, One Million Start-ups and Maitri in writing of Foreign, Commonwealth and Development Office (FCDO) research grant.
4. 2021: Networking and collaboration between Kenyatta University, University of Eldoret and Kenya Bureau of Standards in writing of NRF Covid-19 Project.
5. 2015: Guest Lecturer in Makerere University, Department of Public Health on International Certificate Course bringing former PROVIDE researchers from East Africa and Netherlands. I Lectured on Modernised Mixtures Approach to Sanitation Provision in Kampala, Uganda.
6. 2014: Appointment to the planning committee for the 6th ICAT conference on Appropriate Technology, which took place on 25-26th November, 2014 at Kenyatta University.

1.4.5 Consulting for Organizations/Institutions

1. Runji Consulting Group Limited as Environmental Impact Assessment consultant.
2. E&G Spatial Consultants Limited as Environmental and Social Screening consultant

1.4.6 Membership to Academic/Professional Bodies

1. Kenya Institute of Planners (KIP): Corporate Member (MKIP)
2. Environment Institute of Kenya: Member
3. National Environment Management Authority (NEMA): Lead Expert - Environmental Impact Assessment and Audit

1.4.7 Any Other (Editorship/Peer Review, External Examiner)

1. 2024: Review of Paper for Habitat International: Manuscript ID HABITATINT-D-24-00977
2. 2024: Review of Paper for Utilities Policy Manuscript Number: JUIP-D-24-00243
3. 2024: Review of Paper for Water Practice and technology Manuscript ID WPT-D-24-00214
4. 2024: review of Paper for Qeios, Manuscript Number: M1AK71_Revoew Paper
5. 2024: review of Paper for Frontiers 1349331 Manuscript
6. 2024: review of Paper for Journal of Sustainable Forestry Manuscript Number MS 1893 Manuscript Number: Manuscript Number:
7. 2022-2024: Appointment as external examiner in the Department of Agroforestry, Environmental Studies and Integrated Natural Resources, University of Kabianga.
8. 2022-2023: Guest editor for Water International Special Issue: Irrigation in urban catchments: Politics, practices and technologies.
9. 2023: Review of paper for Journal Water Practice and Technology: Manuscript Number WPT-D-23-00149
10. 2023: Review of paper for Karbala International Journal of Modern Science: Manuscript Number KIJOMS-D-23-00322R2
11. 2022: Review of paper for Energy for Sustainable Development: Manuscript Number ESD-D-21-01295
12. 2021: Review of paper for the Elsevier journal Trees, Forests and People: Manuscript Number TFP-D-21-00174R1

1.5 Administrative Responsibilities

1.5.1 Recognized University Administrative Positions

1. 2021: Extension of Contract as Chairperson, Department of Environmental Planning and Management
2. 2017-2021: Chairperson, Department of Environmental Planning and Management

1.5.2 Other Responsibilities in the University

1. 2022-2024: Coordinator, Environmental Planning and Management programmes
2. 2022: 4th Year Class Advisor
3. 2022: Member of Departmental Review Committee
4. 2022: Chairman of Ad Hoc Transition Committee for the merger of Department of Environmental Planning and Management and that of Urban and Regional Planning.
5. April 2022: Appointment to a proposal writing committee for National Institute for Health Research fifth Research and Innovation for Global South Health Transformation.

6. October 2021: Appointment to the proposal development committee for the Fund for Innovation in Development.
7. October 2021: Appointment to the AFDB proposal development technical committee.
8. February 2021: Appointment to DAAD pre-selection and shortlisting committee.
9. February 2021: Appointment to a consultancy team to submit an expression of interest on establishment for centre of excellence for innovation of African universities.
10. 2013: Appointment to Technical Committee for the Proposed School of Architecture and Spatial Planning in which we developed programmes for the school.
11. 2013: Part of the team that developed Kenyatta University Environment Policy

1.6 Community Engagements and Other Contributions

1.6.1 Research Funding

1. 2021: Commonwealth, Foreign and Development Office (FCDO) Research Grant of £118590. The research project is titled '*Understanding the Kenyan start-up ecosystem*'.
2. 2021: National Research Fund (NRF) Collaborative Consortium Research of KES 18,156,000.00. Project titled '*Optimizing Parameters for the Proper Use of Face Masks to Reduce Severity of Underlying Infections for Enhanced Tolerance to COVID-19*'
3. 2016. Kenyatta University Vice-Chancellor Research Grant for 2015 of KES 1,500,000.00. Project titled '*Designing a New Territory for Institutional Arrangements for Collaborative Governance of Forests in Kenya using a Delphi Process*'

1.6.2 Community Outreach

1. 2023-2025: State Appointment as Board Member of North Rift Valley Water Works Development Agency
2. 2024-Date: Patron, Elgeyo Marakwet Kenyatta University Students Association.
3. 2016-Date: Chairman, Wageningen University Alumni in Kenya
4. 2016-2022: Chairman, Board of Management of Koisungur Secondary School
5. 2016-2022. State Appointment as Chairman of Kenya Forestry Research Institute under Ministry of Environment and Forestry.
6. 2018-2021: State Appointment as Director to Sacco Societies Regulatory Authority (SASRA)
7. 2014-2016: State Appointment as Chairman of National Irrigation Board, a State Corporation then under Ministry of Agriculture, Fisheries and Livestock. Currently it is under Ministry of Water and Irrigation.

8. 2015-2022: Appointment as Member of Board of Management (BOM) of Koisungur Secondary School. On first meeting of BOM, I was elected as BOM Chairman
9. 2013-2017: Patron, Uasin Gishu University Student Association, KU Chapter

1.6.3 Professional Affiliation and Portfolios

1. Kenya Institute of Planners (KIP): Corporate Member (MKIP)
2. Environment Institute of Kenya: Member
3. National Environment Management Authority (NEMA): Lead Expert - Environmental Impact Assessment and Audit

1.6.4 Recognitions, Awards and Honours

1. August 2022: Letter of commendation for exemplary services as Chairman of the Board of Directors of Kenya Forestry Research Institute.
2. April 2022: Letter of appreciation for innovative ideas and strategic thinking that increased credibility and visibility of Sacco Societies Regulatory Authority (SASRA) in the Sacco Sector.
3. 2022: Certificate of appreciation from Koisungur Secondary School on outstanding service as Chairman of the Board of Management and resource Mobilisation.
4. 2011: Awarded innovative award price from 5 S-NL Society of the Netherland for purpose of drafting a mathematical model on sanitation selection based on the modernised mixtures approach. A master's student was appointed to work on the model and resulted in 2013 journal publication.
5. 2006: Awarded INREF scholarship to pursue a PhD under PROVIDE project to Wageningen University. This was in collaboration with Kenyatta University, Makerere University, Ardhi University of Dar es Salaam and Wageningen University.

Referees

Prof. Caleb Mireri,

Associate Professor, Department of Spatial and Environmental Planning,
School of Engineering and Architecture, Kenyatta University,
P.O. Box 43844-00100 Nairobi.

Dr. Peter Kamau,

Executive Dean, School of Engineering and Architecture, Kenyatta University
P.O Box 43844-00100 Nairobi.