

PROF. STANLEY OMUTEREMA OLUCHIRI,

PHD CURRICULUM VITAE

1.0 PERSONAL INFORMATION

Name: Stanley Omuterema Oluchiri
Languages: Luhya, English, Kiswahili (Both Spoken and Written with High Proficiency)
Contacts: **Official Addresses:** Masinde Muliro University of Science and Technology (MMUST), P.O. Box 190 – 50100 Kakamega;
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2.0 EDUCATION PROFILE

University Studies & Qualifications

PhD, Environmental Science (Environmental Earth Sciences, Moi University)
Master of Public Policy and Administration (Kenyatta University)
MSc, Environmental Physical Sciences; B.Tech. Ed. (Moi University);
Cert. EIA&EA (Moi University)

3.0 TRAINING AND PROFESSIONAL GROWTH

Certificate Courses and Short Training

Dates	Institution	Course Title
May 2023	UNEP, European Union and SDG Academy	Nature-Based Solutions for Disaster and Climate Resilience
May 2023	St. John Ambulance	Basic Life Support Training (Facilitation & Supervision)
January 2022	The Nature Conservancy	Water Funds: Introduction and Feasibility Phase
November 2021	Environment Institute of Kenya (EIK), Kenya	Environmental Management Systems, ISO 14001: 2015
January 2021	Kenya Bureau of Standards	National Technical Standards Surveillance
17/08/2020 – 24/10/2020	Kenya School of Government	Senior Management Course
29/09/2020 - 3/10/2020	National Commission for Science, Technology and Innovation (NACOSTI)	Ethical Issues in Research Process

29/06/2020	FOIPA Patents Copyrights,	Patents Drafting Course
	My patents Attorney Services & Copyrighted.com	
28/01/2017	PIMAC International, Nairobi	Management of Chemical, Biological, Radiological, Nuclear & Explosives (CBRNE) Emergencies
6/02/ 2015	Kenya Red Cross, Kakamega	Emergency Response, First Aid Demonstrations, Anti Jigger Campaign & Team Building
11/11/2014 – 12/11/ 2014	Commission for University Education, Nairobi, Kenya	External Peer Reviewers Training Workshop
15/01/2014 – 17/01/2014	Kenya Bureau of Standards, MMUST, Kakamega, Kenya	Refresher Course on Internal Quality Auditing Based on ISO 19011: 2011 Guidelines
25/09/2013 – 26/09/2013	Government of Rwanda, Kigali	Advanced Disaster Risk Reduction Training

Dates	Institution	Course Title
June 2000	Moi University, Eldoret, Kenya	Environmental Impact Assessment & Auditing

4.0 EMPLOYMENT PROFILE

Dates	Place	Position/Job
20 th June 2012 to date	MMUST	From Jan. 2020: Associate Professor
18 th December 2007 to 2012	MMUST	Lecturer
2004 - 2007	MMUST	Assistant Lecturer
2004 - 2006	Moi University, Eldoret, Kenya	Part-time Lecturer

5.0 POSITIONS OF RESPONSIBILITY

Dates	Position & Place
Feb. 2021 to date	Associate Dean, School of Disaster Management, MMUST
2005 to date	Patron, St. John Ambulance, MMUST Link

April 2016 to May 2018	Coordinator, Ebusangwe Campus, MMUST
February 2015 to 2019	Chairman, School of Disaster Management Graduate School Committee.
24 th March 2014 to date	Commission for University Education (CUE) (Kenya) Pre-qualified Peer Reviewer
July 2011 up to date	Internal Quality Auditor, Masinde Muliro University of Science & Technology

6.0 CONSULTANCIES

	Consultancies
1.	April 2024 – November 2024: Environmental and Social Impact Assessment. Kakamega County Aggregation and Industrial Park.
2.	February 2024: Environmental and Social Impact Assessment Report and Resettlement Action Plan for Nambale Sewerage Project under Lake Victoria North Water Works Agency.
3.	April 2024: Environmental and Social Impact Assessment, Gold Exploration Activities, Western Kenya, Shanta Gold Kenya Limited.
4.	March to April 2023: Environmental and Social Impact Assessment, Butali Sugar Company Limited; Factory and Weighbridge.
5.	July 2022 – December 2022: Environmental and Social Impact Assessment, Six (6No.) Modern Open Air Markets, County Government of Kakamega.
6.	May 2021 to Jan. 2022: Environmental and Social Impact Assessment for Sichirai Market and Mumias Bus Park for the County Government of Kakamega, under the KUDSP.
7.	June 2017 – up to date: Disaster and Emergency Consultant, World Health Organization project: The Kenya Policy on Emergency Medical Care. Contact Person: Head, Emergency Preparedness and Response Unit, Ministry of Health, Nairobi
8.	May 16 th to 19 th 2016: Lead Trainer, IGAD Member Country Representatives on “Contingency Planning.
9.	Planning and Disaster Risk Reduction in the Greater Horn of Africa”.
10.	August 2015: Contingency Planning for Kenya under Kenya Red Cross Society.
11.	24 th June 2015: Facilitated Occupational Health and Safety Training Workshop at Kibabii University College, Bungoma. Contact Person: DVC (A&F)
12.	April 2015: Lead Facilitator, In-house Training for Fire Safety Team for Lake Victoria North Water Services Board (LVNWSB).
13.	February 2015: Lead Consultant, Formulation of Fire and Safety Policy for Lake Victoria North Water Services Board (LVNWSB).

14.	November 2014 – Feb. 2015; Contingency Planning for Turkana County, funded through Agency for Pastoralist Development, Lodwar & UKAid. Contact Person: Exec. Director, APaD
15.	September 2014 to February 2015: Member/Chairman Government of Kenya (County Government of Bungoma) Task Force on Community based Mt. Elgon and Chetambe Ecosystem Conservation and Management Plan, Kenya
16.	July, 2014 – Sept. 2014: Consultancy on preparing Natural Resource Use By-laws for Turkana County under Agency for Pastoralist Development, Lodwar Contact Person: Exec. Director, APaD
17.	April 2014: Trained Environmental Committee of Kisumu Polytechnic on Institutional Environmental Management
18.	December 15 th to 19 th 2013: Led Trainers in Capacity Enhancement training for National Drought Management Authority (NDMA) staff on enhancement of benefits from efficient institutional and legal structures.
19.	25 th – 26 th September 2013: Led a team of trainers for International Training: Advanced Disaster Risk Management Training in Kigali, Rwanda.
20.	June 2013: Writing of Disaster Risk Reduction Mainstreaming Guide for Practitioners in Kenya. IPSTC: UNDP, Kenya.
21.	October 8th to 11th 2012: Trainer in Climate change course at Humanitarian Peace Support School. Sponsor: UNDP- Kenya Contact person: Commandant Humanitarian Peace
22.	August 2012: Led Quality Management Teams for Stage One Pre-audit in preparation for Kenya Bureau of Standards ISO 9001: 2008 Certification of Masinde Muliro University of Science & Technology

7.0 WORKSHOPS, CONFERENCES, SYMPOSIA AND SEMINARS

1. 22nd March 2024: Public lecture on Farmer Managed Natural Regeneration (FMR) Themed “Infusing FMNR in Academic Programmes” Held at Moi University (Main Campus). Convened by Moi University and World Vision.
2. April 2019: National Workshop on Preparation of the National Disaster Action Plan. Convened by the National Disaster Operation Centre, Ministry of Interior and Coordination of National Government.
3. 2nd – 3rd March 2016: Workshop on Sustainable Land Management (SLM) Technologies in Western Kenya, Organized by Institute for Advanced Sustainability Studies (IASS), Potsdam, German & German Technical Agency (GIZ), 2nd – 3rd March 2016, Kisumu, Kenya
4. 21st – 24th October 2015: MMUST – UNEVEN Training Workshop on “Grant Proposal Writing and Graduate Students’ Supervision” held at Bishop Stam Pastoral Centre, Kakamega
5. 13th – 14th August 2015: International Conference on “Expanding Theoretical and Applied Roles of GIS in a Dynamic Global Environment” held at Masinde Muliro University of Science & Technology, Kenya

8.0 CONFERENCE PROCEEDINGS

1. 15th – 16th February 2024: Towards actionable impact-based early warning in Africa: integrating exposure and vulnerability into early warning systems – a pilot study in the IGAD region (EarlyWarning4IGAD), EarlyWarning4IGAD – Kick off Workshop, Naivasha, Kenya. Supported by ICPAC, RCMRD, CMAC, UNU and UNDRR
2. February 2022: Workshop on Preparation of Emergency Medical Technicians Policy, Machakos, Kenya.
3. March 2016: Workshop on Sustainable Land Management (SLM) Technologies in Western Kenya, Organized by Institute for Advanced Sustainability Studies (IASS), Potsdam, German & German Technical Agency (GIZ), 2nd – 3rd March 2016, Kisumu, Kenya
4. 14th August 2015: International Conference on “ Expanding Theoretical and Applied Roles of GIS in a Dynamic Global Environment” held at Masinde Muliro University of Science & Technology, Kenya
5. 12th June 2015: Resource Use and Development Nexus through Regional Centres for Expertise in Kenya; Opportunity for Sustained Risk Reduction. A paper presented by Stanley O. Omuterema, PhD. Proceedings of the 4th Masinde Muliro University of Science & Technology (MMUST) & Education Management Society of Kenya (EMSK) International Conference, at MMUST
6. 22nd April 2015. UNDP/NDMA Ending Drought Emergencies (EDE) M&E Technical Working Group Workshop at Naivasha **Role:** Workshop Rapporteur and EDE Technical Report Writing Consultant.
7. 6th March 2015 – Bioethics Training at Masinde Muliro University of Science & Technology International Conference Presentation: Njiru, P. K., **S. O. Omuterema** & D. L. Barasa (2015).
8. An Assessment of Domestic water supply and sanitation in relation to prevalence of waterborne diseases in Mbeere, Embu county, Kenya. The First DeKUT International Conference on Science, Technology and Innovation at Dedan Kimathi University of Technology, dates: 4th – 7th November, 2015
9. Ngira, A.A., **S.O. Omuterema** & E.M. Neyole (2013). Climate Change and DRR in Schools: The Role of Curriculum and Synergy among Stakeholders. Third KIE Education Symposium, Nairobi, Kenya. Theme: Responsiveness of The Curriculum to National Development and Globalization held on 23rd & 24th January 2013.
10. **Omuterema, S. O.**, N. O. Nyandiko, P. Wambiya & D. Ouma (2013). Policy Brief for East African Community: Summary of Results and Lessons Learned from the Implementation of Mount Elgon Regional Ecosystem Conservation Programme (MERECp) under Retouch Africa International Limited for Lake Victoria Basin Commission (LVBC), East African Community (EAC).

9.0 REVIEWED/ASSESSED RESEARCH THESES & EXTERNAL ASSESSMENT

1. November 2023 - 2025: External Reviewer, Kenya National Commission for UNESCO.

2. October 2023: “Developing a Concrete Mix Design for a Simulated Aggressive Acidic Sewer Environment Using Rice Husk Ash as an Admixture”.
3. August 2023: “Influence of Freshwater Aquaculture on Household Socio-Economic Performance in Busia County, Kenya”
4. August 2023: “Factors Contributing to Disaster Risk Reduction in Transportation of Petroleum Products in Kenya”
5. June 2023: Thesis Examiner, Pwani University. . (Attach)
6. May 2023 - 2025: External Evaluator, Kenyatta University. (Attach)
7. March 2023: Community Managed Disaster Risk Reduction Strategies Influencing Drought Resilience In Marsabit County, Kenya.
8. March 2023: “Fire Disaster Preparedness Influencing Disaster Response Operations in Prisons in Central Kenya”
9. November 2022 to date: Evaluator with Commission for University Education, Kenya. (Attach)
10. December 2021: “Factors Influencing Refugees’ Access To Humanitarian Aid In Kakuma Refugee Camp, Kenya”
11. October 2021: “Influence of Land Use On The Occurrence Of Landslide In Mount Elgon Sub-County, Kenya ”
12. September 2019: “Simulation of Run-off water Quality Effects on Surface Water Supply Treatment Works in Mid-Block of Yala, Kenya”.
13. September 2019: “Optimization of Reservoir Pressure for Management of Water Losses in Distribution Network: case of Kimilili Water Supply Scheme, Kenya”. An MSc Thesis by Celsus Murenjekha Shilehwa, Masinde Muliro University, Kenya
14. October 2019: “Impediments Influencing Emergency Response by Rescue Service Teams in Nairobi County, Kenya”. An MSc Thesis by Evans Kiage, Masinde Muliro University, Kenya
15. September 2019: “Perception of the Households on Environmental Pollutants and Their Effects on the Socio-Economic Wellbeing in Mukuru Informal Settlements of Nairobi County, Kenya” An MSc Thesis by Lucas E. Esekoni, Masinde Muliro University, Kenya
16. September 2019: “The Influence of Climate Change and Climate Variability on Jigger Infestation in Teso North Sub County, Busia County, Kenya.” An MSc Thesis by Celestine Mukhavali, Masinde Muliro University, Kenya
17. August 2019: “Contribution of Public Participation to Environmental Conservation in Kakamega County, Kenya”. An MSc Thesis by Joseph Ngeny, Masinde Muliro University, Kenya
18. August 2019: “Influence of livelihoods on household food security in pastoral areas of Narok County, Kenya”. An MSc Thesis by Timothy Kileteny, Masinde Muliro University, Kenya
19. June 2019: An Assessment of Potential of Biogas as an Alternative Source of Energy in Kenya: Case Study of Kilifi Plantation Biogas Plant” An MSc Thesis by Esther Kiarie, Pwani University

20. November 2018: “Analysis of energy ecological footprint of industries located within Mombasa Island, Kenya” An MSc Thesis by Samuel Ngaanga, Pwani University
21. October 2018 “ Effect of Human Capital on Household Food security in Mbooni Subcounty, Kenya” An MSc Thesis by Boniface Mwema, Masinde Muliro University, Kenya
22. October 2018 “Bacteriological and Physico-chemical Water quality of Omubhira Stream, Kakamega County, Kenya” An MSc Thesis by Agnes A. Menya
23. September 2018:“Watershed Governance and Food Security in the Lower Sio River Watershed in Busia County, Kenya ”A PhD Thesis by Daniel N. Namanya
24. September 2018: “Public Knowledge Stigma and Perceptions towards the Mentally ill persons in Bungoma County, Kenya . An MSc Thesis by Jane N. Munika”
25. July 2018:“Mitigation Strategies for Dry Spells Occurrence on Rainfed Agriculture in Homabay County, Kenya” An MSc Thesis by Japheth Ogenga
26. November, 2016: “Contribution of HIV and AIDS Curriculum Mainstreaming to HIV Risk Perception and Behavior of Kenyan University Students” A PhD Thesis by Margaret Immonje
27. October, 2016: “Contribution of Sugarcane transportation sector on Household Livelihoods in Kakamega and Bungoma Counties, Kenya” An MSc Thesis by Vitalis Masakhwe
28. September, 2016: Anaerobic Digestion of Sewage for Energy Production and Environmental Protection in Secondary Schools in Kakamega County, Kenya. A PhD Thesis by Ibrahim Barasa
29. September 2016: Evaluation of Sustainable Accountability Practices of Humanitarian Organizations In Kenya, A PhD Thesis by Silas Idah Mukavale
30. September, 2016: “Urban Planning Strategies for Disaster Risk Reduction in Selected Towns in Kenya” PhD thesis by Patrick Maelo Kerre
31. September, 2016: “The Role of Urban Agriculture in Enhancing Nutrition Security among Households in Embakasi Sub County, Kenya” MSc Thesis by Maureen Keleha Amayi
32. September 2015: “Household Vulnerability to Food Insecurity in Bungoma County, Kenya. A PhD Thesis by Marystella Wabwoba
33. September 2015: Vulnerability of Fishermen to Natural and Technological Hazards on Lake Victoria, Kenya” A PhD Thesis by Joy Atieno Amore
34. May, 2015: “Occurrence and discharge of Perfluoroalkyl Acids in selected waste water treatment plants within Lake Victoria catchment area, Kenya” MSc Thesis by Flora N. Chiricono
35. March, 2015: “Evaluation of Disaster Risk Reduction Measures against landslides in Nandi Escarpment, Western Kenya” MSc Thesis by Emmanuel Situma
36. November 2013:’Sustainable Access to safe Drinking water and basic sanitation services under reformed water sector in Kakamega County, Kenya. An MSc Thesis by Ernest Odwori Othieno’.

10.0 PUBLICATIONS IN REFEREED JOURNALS

1. **Omuterema, O. S.** (2025). Urban Flooding in the Cities of Kisumu, Mombasa, and Nairobi, Kenya: Causes, Vulnerability Factors, and Management, Vol. 6 (Iss. 1) 2025, pp. 342-351. *African Journal of Empirical Research*, <https://doi.org/10.51867/ajernet.6.1.29>
2. Ogaro, L. K., **Omuterema, S.**, & Neyole, E. (2024). An Assessment of the Existing Structure of Water Service Provision System and Water Security in Informal Settlements in Nairobi County, Kenya. *African Journal of Empirical Research*, 5(3), 1166–1179. <https://doi.org/10.51867/ajernet.5.3.99>
3. Ogaro, L. K., **Omuterema, S.**, & Neyole, E. (2024). Water Security Characteristics of Existing Water Service Provision Systems in Informal Settlements within Nairobi County, Kenya. *African Journal of Empirical Research*, 5(3), 822–837. <https://doi.org/10.51867/ajernet.5.3.70>
4. Kerich, N., Omuterema S. O. & Pepela M. M. (2024). Evaluating the Role of Electronic Security Surveillance in Enhancing Safety in Secondary Schools: A Case Study of Trans Nzoia County, Kenya. *African Journal of Empirical Research*, 5(4), 163–173. <https://doi.org/10.51867/ajernet.5.4.14>
5. Wanjala, W.S.N., Olutende, O.M., Rose, W., Joab, O., **Omuterema, O.S.** and Steve, O. (2024) Rivers of Resilience: Assessing Hydrological Baseline Data for Nature-Based Conservation in the Yala River Watershed. *Open Access Library Journal*, 11: e11207. <https://doi.org/10.4236/oalib.1111207>
6. Wanjala, W.S.N., Olutende, O.M., Joab, O., **Omuterema, O.S.**, Steve, O. and Rose, W. (2024) The Role of Community Awareness in River/Wetland Conservation: A Case of Upper Yala River Watershed. *Open Access Library Journal*, 11: e11206, <https://doi.org/10.4236/oalib.1111206>.
7. Simiyu, A., **Omuterema, S.**, Injendi, J., & Mukonyi, P. (2024). Evaluating objectives of TVET in Kenya in light of pragmatic theory towards lifelong learning: A holistic approach to competency training. *African Quarterly Social Science Review*, 1(4), 134-148. <https://doi.org/10.51867/AQSSR.1.4.12>
8. Sahal, H. A., Ombachi K. N. & **S. O. Omuterema** (2022). Impact of Faith-Based Organizations' Initiatives on Drought Response in Garissa County, Kenya. *Journal of International Social Science and Humanities*, ISSN 2663 – 127X, Vol. 3, Iss. 1 (2022), pp 1 –28, October 29, 2022. <http://www.reviewedjournals.com>
9. Mutie , K. , **S. O. Omuterema** & E. M. Mugalavai (2022). Effects of Heavy Metals on Water Quality along Kenya Pipeline in Makueni County, Kenya. *International Journal of Scientific Research and Innovative Technology* Vol. 9 No. 2; September 2022, 9 – 21
10. Baru E., S. Omuterema & J. Nabiswa (2021). Organizational attributes that support reliable Emergency Medical Services response during Mass Casualty Incidents in Nairobi County, Kenya. *International Journal of Scientific and Research Publications*, Volume 11, Issue 11, November 2021, ISSN 2250-3153. <http://dx.doi.org/10.29322/IJSRP.11.11.2021.p11963>

11. Masese, S.M., **S. O. Omuterema** & R. Simiyu (2021). Factors influencing integration of Geographic Information System, Community Coping Strategies and Local Knowledge in Flood Management in Narok Town, Kenya. *Elixir International Journal; Elixir Soc. Sci.* 161(2021)55759-55765
12. Masese, S.M., **S.O. Omuterema** & R. Simiyu (2021). Effects of Integration of Geographic Information System, Community Coping Strategies and Local Knowledge in Flood Management in Narok Town, Kenya. *Elixir International Journal; Elixir Soc. Sci.* 161(2021)55766-55773
13. Oduori, A. G.S. Wilson, S. Omuterema & H. W. Nyongesa (2019). Establishment of the technological factors contributing to the sustainability of the Farmers Field School (FFS) in Busia County, Western Kenya: A Case of Farmers Field Schools in Busia County. *International Journal of Scientific and Research Publications, Volume 9, Issue 11, November 2019, ISSN 2250-3153.* <http://dx.doi.org/10.29322/IJSRP.9.11.2019.p9532>
14. Otwor D. O., **S. O. Omuterema** & E. M. Mugalavai (2019). Energy Saving Strategies for Enhanced Efficiency among Urban Households in Kakamega, Kenya. *International Journal of Scientific Research and Innovative Technology. Vol. 6 No. 8; September 2019. 47 – 61.* https://www.academia.edu/107562880/Energy_Saving_Strategies
15. Ogara R.S., E. M. Neyole, **S. O. Omuterema** & F.O. Orata (2019). Assessment of Key Point Sources of Heavy Metals (Lead, Cadmium and Chromium): A Case of River Sosiani. *Journal of Applied Ecology and Environmental Sciences, 2019, Vol. 7, No. 4, 128-134.* <https://pubs.sciepub.com/aees/7/4/2/index.html>
16. Ogara R.S., E. M. Neyole, **S. O. Omuterema** & F.O. Orata (2019). Analysis of Spatial and Temporal Levels of Heavy Metals in Water, Sediments and Fish in Sosiani River. *International Journal of Environmental Bioremediation & Biodegradation, 2019, Vol. 7, No. 1, 20-40.* <https://repository.nrf.go.ke/entities/publication/53b7df6c-8592-4406-b709-8716a3833aaf/full>
17. Ogara R.S., E. M. Neyole, **S. O. Omuterema** & F.O. Orata (2019). Assessment of Public Health Risks of Heavy Metals Pollution in River Sosiani Catchment. *American Journal of Environmental Protection, 2019, Vol. 7, No. 2, 41-51.* <https://pubs.sciepub.com/env/7/2/2/index.html>
18. Nanyuli, I., **S. O. Omuterema** & F. Muyekho (2018). The Effects of EM (Effective Microorganisms) and Biochar on the Rate of Decomposition and the Nutrient Content of the Compost Manure Produced from the Locally Available Materials during Composting in Kakamega Central Sub County Kenya, *Journal of Horticulture and Plant Research*, ISSN: 2624-814X, Vol. 4, pp 33-47. DOI: <https://dx.doi.org/10.18052/www.scipress.com/jhpr.4.33>
19. Talian, M. N., **S. O. Omuterema** & S. S. China (2017). Efficacy of Mitigation Measures in Kenya EIA Process: An Opportunity for Urban Disaster Risk Reduction. *Elixir Environ. & Forestry 110 (2017) 48545-48548, Available online at www.elixirpublishers.com (Elixir International Journal).* Available at: <https://www.academia.edu/73681946>
20. Talian, M. N., **S. O. Omuterema** & S. S. China (2017). Assessment of Environmental Impact Identification and Mitigation Measures in Urban Developments, Kenya *Elixir Environ. & Forestry 110 (2017) 48540-48544, Available online at www.elixirpublishers.com (Elixir International Journal) and https://www.academia.edu/73681190*
21. Ochenje C. A., J. W. Wakhungu, **S. O. Omuterema** (2017) Risk Management Best Practices and Challenges Encountered In Implementing the Risk Reduction Strategies in Industries *International*

- Journal of Environment and Pollution Research IJEPR*, Vol. 5 Issue 2, May 2017. ISSN 2056-7537(print), ISSN 2056-7545(online). DOI: <https://doi.org/10.37745/ijepr.1>
22. Obiayo, M. O., **S. Omuterema** & C. Rambo (2016). Influence of Floods on Education and Sanitation Sustainability in Nyando River Basin, Nyando Sub-County, Kenya. *Elixir International Journal, Elixir Environ. & Forestry*. 99 (2016) 43055-43060, ISSN 2229 – 712X. Available at: <https://www.semanticscholar.org/paper/Influence>
 23. Obiayo, M. O., **S. Omuterema** & C. Rambo (2016). Influence of Floods on Community Livelihood Sustainability and Development in Nyando River Basin, Nyando Sub-County, Kenya, *Elixir International Journal, Elixir Environ. & Forestry*. 99 (2016) 43055-43060, ISSN 2229 – 712X. Available: <https://www.researchgate.net/publication/311583977>
 24. Koome, A. E., J. W. Wakhungu, & **S. O. Omuterema** (2016). Analysis of Trigger Factors to Fire Hazards in Kibera Informal Settlement of Nairobi County, Kenya. *International Journal of Social Science and Humanities Research* ISSN 2348-3164 (online), ISSN 2348-3156 (Print); Vol. 4, Issue 4, pp: (358-363), Month: October - December 2016, Available at: <https://www.researchpublish.com/papers/analysis>
 25. Mutua, L. N., **S. O. Omuterema** & J. O. Gweyi (2016). Evaluation of Mitigation and Response Strategies used for Drought Management in Makueni County, Kenya. *Elixir International Journal. Elixir Fin. Mgmt*. 98 (2016) 42563 – 42566, ISSN 2229 – 712X
 26. Mutua, L. N, **S. O. Omuterema** & J.O. Gweyi (2016). Evaluation of the Nature of Drought Experienced in Makueni County, Kenya, *IISTE Journal Vol. 6, No. 16, 2016. (92-102)*.ISSN (Paper) 2224 – 5766 ISSN (Online) 2225 – 0484. Available: <https://iiste.org/Journals/index.php/RHSS/article/viewFile/32713/33604>
 27. Musiega, K. & **S.O. Omuterema** (2016). Co-management as a Strategy of Environmental Conservation of Fisheries Resources in Beaches in Mbita, Kenya. *Elixir International Journal, Elixir Environ. & Forestry* 96 (2016) 41410 – 41415. ISSN 2229 – 712X. Available: <https://www.researchgate.net/publication/311583987>
 28. **Omuterema, S. O. (2016). DMD 803 Environmental Impact Assessment, Open and Distance Learning Module**, Masinde Muliro University of Science & Technology, August 2016
 29. **Omuterema, S. O. (2016). CDM 804 Field Skills. Open and Distance Learning Module**, Masinde Muliro University of Science & Technology, August 2016
 30. Njiru Peter K., **Omuterema Stanley O.** & Lilechi D. Baraza (2016).Sanitation In Relation To Prevalence of Waterborne Diseases in Mbeere, Embu County, Kenya. *IOSR Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT) e-ISSN: 2319-2402,p- ISSN: 2319-2399*.Volume 10, Issue 5 Ver. I (May. 2016), pp 59-Available:<https://www.iosrjournals.org/iosr-jestft/papers/vol10-issue5/Version-1/J1005015965.pdf>
 31. Odongo, D. W., J. W. Wakhungu & **S.O. Omuterema** (2016). Prevalence of Communicable Diseases among Secondary Students in Kisumu County, Kenya. *IOSR Journal of Nursing and Health Science (IOSR-JNHS) e-ISSN: 2320–1959,p- ISSN: 2320–1940 Volume 5, Issue 3 Ver. VI (May - Jun. 2016)*, pp 39-44. Available: <https://www.iosrjournals.org/iosr-jnhs/papers/vol5-issue3/Version-6/F0503063944.pdf>

32. **Omuterema, S.** (2016). *Post Conflict Reconstruction: Processes, Actors and Strategies for Kenya JESS, Issue 3 Vol. 1* pp. 108 – 116. ISSN: 2223 – 490X
33. Odongo, D. W., J. W. Wakhungu & **S. O. Omuterema** (2015). Prevalence of Communicable Diseases and Causes of Variability among Secondary Schools in Kisumu County, Kenya. *Global Journal of Medical Research, Vol. 15 Issue 3 Vers. 1.0*, Year 2015, Global Journals Inc. Online ISSN: 2249-4618 & Print ISSN: 0975 – 5888. Available:https://medicalresearchjournal.org/index.php/GJMR/article/view/955/5-Prevalence-of-Communicable_JATS_NLM_xml
34. Kimani, E. G., N. Nyandiko & **S. O. Omuterema** (2015). The Management of Responders during Urban Search and Rescue in Mombasa and Nairobi City Counties, Kenya. *Elixir International Journal*, 88(2015) 36254 – 36257, ISSN 2229-712X
35. Wabwoba M., J. W, Wakhungu & **S. Omuterema** (2015).,Household Food Insecurity Coping Strategies in Bungoma County, Kenya *International Journal of Nutrition and Food Sciences*, 2015;6 (5): 26-27, Published online: December, 20. 2015, publishing group.com/j/ijnfs Doi: 10.11648/j2327.2015 2327.16
36. Barasa, M. K. & **S. Omuterema** (2015) Respiratory Disease Incidences with different Indoor Lighting Designs at Gadamoji Area of Marsabit County, Kenya. *Elixir International Journal; Elixir Pollution* 82 (2015) 32544-32548. Available: <https://www.researchgate.net/publication/311584346>
37. Okayo, J., P. Odera & **S. Omuterema** (2015).Socio-economic characteristics of the community that determine ability to uptake precautionary measures to mitigate flood disaster in Kano Plains, Kisumu County, Kenya. *Geoenvironmental Disasters*, 20152:26, DOI: 10.1186/s40677-015-0034-5. Available: <https://geoenvironmental-disasters.springeropen.com/articles/10.1186/s40677-015-0034-5>
38. Okayo, J., P. Odera & **S. Omuterema** (2015). Challenges of Implementing Community Sensitization, Strategies for Flood Mitigation in Kano Plains, Kisumu County, Kenya. *Asian Academic Research Journal of Multidisciplinary, AARJMD, Vol. 2 Issue 2*, July 2015. ISSN: 2319 – 2801
39. Shibutse, P., **S. Omuterema** & S.S. China (2015). Causes of Fire Disasters in Secondary Schools in Kenya. *Elixir International Journal; Elixir Soc. Sci.* 81 (2015) 31776-31779. Available at: <https://www.academia.edu/73864175/Causes>
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51. **Omuterema, S. O.**, N. O. Nyandiko, P. Wambiya & D. Ouma (2013). Policy Brief for East African Community: Summary of Results and Lessons Learned from the Implementation of Mount Elgon Regional Ecosystem Conservation Programme (MERECp) under Retouch Africa International Limited for Lake Victoria Basin Commission (LVBC), East African Community (EAC).
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53. Wabwoba F., Wanyembi G. W. & **Omuterema S.** (2012). Barriers to implementation of green

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54. July 2012: Neyole, E. M., **S. O. Omuterema**, S. Ogallo & A. Maiyo (2012). Hazard Mapping and Vulnerability Assessment for Disaster Risk Reduction in Western Kenya. CDMHA/ADMCRK International Conference held at Masinde Muliro University of Science & Technology on 18th – 20th July 2012. ISBN: 978-9966-1727-0-9, July, 2012. Available at: <https://journals.mmust.ac.ke/index.php/jdm>
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 61. **Omuterema, S.**, Tole, M. P, Ndiema, C. Sakwa, T. and Imbuga, B. (2008). A Study of Energy Potential of Municipal Solid Waste (MSW) generated in Eldoret Municipality. *A Journal East Africa Pure and Applied Sciences*
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65. **Omuterema S.O.**, Masibo, M. and Waswa G. (2006). Identification of Landfill Site for Kakamega Municipality. *Journal of Science and Technology (JSTEM)*, Masinde Muiro University of Science and Technology, Kenya

OTHER PUBLICATIONS

- i. February 2020: Mapping of Wetlands in Kakamega County and Preparation of Wetlands Management Plan
- ii. August 2019: Integrated Waste Management Policy for County Government of Kakamega
- iii. June 2019: Analysis of Community Early Warning Systems for Early Action in West Pokot County, Kenya. Gender Sensitive Humanitarian Volunteering Project (GESHAVO) by Action Aid International, Kenya (AAIK)
- iv. April 2019: Republic of Kenya, Ministry of Interior and Coordination of National Government; National Action Plan for Disaster Risk Reduction 2019 – 2022 (Implementation of Sendai Framework for Disaster Risk Reduction 2015 – 2030)

11.0 PATENT

1st February 2021: Registered a Utility Model with Kenya Industrial Property Institute titled “ Web-based real-time emergency intelligent platform.”

12.0 SUPERVISED THESES AND RESEARCH

1. Design and Application of System Dynamics Model For Domestic Water Security in Informal Settlements In Nairobi County, Kenya. A PhD Thesis by Kaunda Ogara Lugard. Status: Graduated in 2024.
2. Impact of Electronic Security Surveillance Systems on Safety Measures in Secondary Schools in Trans Nzoia County, Kenya. An MSc Thesis by Jeruto Nancy Kerich. Status: Graduated in December 2024
3. Nexus between Faith-Based Organizations’ Initiatives and Drought Response in Garissa County, Kenya. An MSc Thesis by Sahal Hassan Abdi. Status: Graduated in 2023
4. Integrating Geographical Information Systems, Community Coping Strategies and Local Knowledge in Flood Management within Narok Town, Kenya. A PhD Thesis by Masese Samuel Manoti. Status: Graduated, 2022
5. Effects of Terrestrial Oil Spills on Water Resource Quality along Kenya Pipeline in Makueni County, Kenya. An MSc Thesis by Aaron Kimeu. Status: Graduated, 2022
6. Evaluation of Renewable Energy Mix for Efficiency Among Households In Kakamega Town, Kenya. An MSc Thesis by Otworu Denis Otworu Status: Graduated, 2021
7. Factors influencing sustainability of farmer field schools in Busia county, Kenya. An MSc Thesis by Wilson G.S. Oduori Abangi Status: Graduated, 2021
8. Factors Impacting on Ambulance Services Response During Mass Casualty Incidents in Nairobi County, Kenya, An MSc Thesis by Evelyn Wanjiku Baru. Status: Graduated, 2022

9. Bioaccumulation of selected heavy metals in carnivorous and omnivorous fish species in Sosiani River, Kenya. A PhD Thesis by Ogara Rose Shieunda Status: Graduated, 2020
10. Evaluation of Workplace Disaster Risk Reduction Programmes for factory employees in Uasin Gishu sub-county, Kenya. A PhD Thesis by Catherine Ochenje Andola Status: Graduated, 2018
11. Integrating disaster risk reduction into Environmental Assessment: An evaluation of Kenya's EIA and SEA. A PhD Thesis by Martin Talian Status: Graduated, 2018
Effective Mitigation and Response to Drought in Makueni County, Kenya. A PhD Thesis by Lydia M. Nduku Status: Graduated, 2016
12. Influence of Floods on Community Livelihood Sustainability and Development in Nyando River Basin, Nyando Sub-County, Kenya. A PhD Thesis by Moses Oduma Obiayo Status: Graduated, 2016
13. Factors Influencing Occupational Safety and Health Programs on Disaster Risk Reduction within Agricultural Research Institutions, Kenya. A PhD Thesis by Florence Muchiri Status: Graduated, 2016
14. The role of Stakeholders and the critical success factors for effective Avian Flu epidemic management In Nakuru County of Kenya . A PhD Thesis by Michael Kiplangat Cheruiyot Status: Graduated, 2016
15. An Assessment of Domestic Water Supply and Sanitation in relation to prevalence of waterborne diseases in Mbeere, Embu county, Kenya. An MSc Thesis by Peter Kamau Njiru Status: Graduated, 2016
16. Role of Public Awareness Campaigns and Fire Disaster Risk Reduction in Pumwani Division Nairobi City, Kenya. An MSc Thesis by Kennedy Alai Status: Graduated, 2016
17. An Investigation on the Contribution of Industrial Establishments on Disaster Preparedness by Local Government Councils in Kenya. An MSc Thesis by Immaculate Imboba Status: Graduated, 2016
18. Community Sensitization for Flood Disaster Mitigation in Kano Plains, Kisumu County, Western Kenya. A PhD Thesis by Joyce Okayo. Status: Graduated 2015
19. Analysis of Emergency Preparedness and Response Strategies at General Aviation Airports in Kenya. A PhD Thesis by Duncan Onyango Ochieng. Status: Graduated, 2015
20. Staff Knowledge and Involvement in Relation to Disaster Preparedness Among Selected Health Facilities in Nairobi County, Kenya. A PhD Thesis by Dominic Charles Okero Status: Graduated, 2015
21. Fire disaster rescue and preparedness in hospitality industry in Kisumu city, Kenya. An MSc Thesis by Kiveu, N. Wycliffe. CDS/G/019/04. Status: Graduated, 2015
22. Assessment of the level of disaster preparedness on bird flu amongst the poultry farmers in Nakuru county, Kenya. A Dissertation for Post Graduate Diploma by Cheruiyot, M. Masinde Muliro University. Status: Graduated, 2014
23. Sustainability Assessment Model to manage Electronic Waste threat from low cost computers for learning in developing countries. A PhD Thesis by Simon Maina Karume Status: Graduated, Dec. 2014

24. Pervasiveness of Green ICT among institutions of learning in developing countries. A PhD Thesis by Franklin Wabwoba. Status: Graduated, 2013
25. Environmental Compliance of Petroleum Fuel outlets under Private and Multinational firms in Nairobi County, Kenya. An MSc Thesis by Pamella A. Awuor. Status: Graduated, 2013
26. Assessment of Fire Disaster Preparedness in Secondary Schools in Vihiga County, Kenya. An MSc Thesis by Pamella Imisa. Status: Graduated, 2013
27. Determinants of Resettlement of IDPs in the Rift Valley, Kenya. A PhD Thesis by Emily Okuto Status: Graduated, 2012
28. Development of an Integrated Drought Early Warning Index for Turkana District in Kenya. An MSc Thesis by Mark N. Ekiru. Status: Graduated, 2012
29. Factors Affecting Sustainability of Community Food Security Projects in Kiambu County, Kenya. An MSc Thesis by Mary Stella Wabwoba. Status: Graduated, 2012
30. Adoption of Structures That Mitigate Water Soil Erosion Hazard in Agriculture in Luanda District, Kenya. An MSc Thesis by Asiema Onesmus Ayuya. Status: Graduated
31. Efficacy of Technical Vocational Education and Training in Realizing Sustainable Development in Kenya: A Pragmatic Approach. Masters of Education in Philosophy of Education Thesis of Masinde Muliro University of Science and Technology by Alfred Simiyu Khisa. Status: Submitted October, 2024
32. Degradation of Nairobi River Riparian Zone and the Mitigation of Flash Flood in Nairobi City County, Kenya. An MSc Thesis by Ivan Oponga Isialila. Status: Submitted October, 2024
33. Climate Variability and the Incidences of Gastrointestinal Infections along the Lower River Sio Watershed, Busia County, Kenya. An MSc Thesis by David Otieno Akhonya. Status: Draft Thesis Report
34. The Socio-Economic Conflict of Electricity Transformer Vandalism and Theft in Central Rift - Kenya. An MSc Thesis by Olego Brian Makokha. Status: Ongoing
35. Effectiveness of E-Waste Management Guidelines on Urban Settings' E-Waste Disposal in Kiambu County, Kenya. An MSc Thesis by Judith Abigail Mukhayi. Status: Ongoing

13.0 MEMBERSHIP OF PROFESSIONAL BODIES AND RELATED NETWORKS

1. Member, Network of Centres of Excellence for Disaster Risk Reduction (NoE-DRR) (<https://www.preventionweb.net/hubs/africa-noe>)
2. Member, European Centre for Research Training and Development, UK, Cert. No. 6474 (1st May 2017 to date)
3. Lead Expert/Consultant, Environmental Impact Assessment and Environmental Auditing, National Environment Management Authority (NEMA), Kenya
4. Member, Environment Institute of Kenya, No. 1,000,167
5. Member, Association for Disaster Management and Conflict Resolution of Kenya (October, 2010) Membership No. 100020
6. Member of the Nile Basin Capacity Building Network (NBCBN), an Environmental Technology Field

7. Member, St. John Ambulance Priory Life Member, Kenya Red Cross Society (Dated 7th September 2005)

14.0 ENVIRONMENTAL IMPACT ASSESSMENT (EIA), ENVIRONMENTAL AND SOCIAL IMPACT ASSESSMENT (ESIA), HEALTH ASSESSMENT (EHA) AND ENVIRONMENTAL AUDIT (EA) EXPERIENCE

I am a Lead Consultant, Envertek Africa Consult Ltd – A Leading Environmental Consultancy Firm in the E. A. Region providing mentorship and internship training to College graduates

I have undertaken the EIA, ESIA, EHA and EAs for many organization and firms. A few are listed below (2016 – to date):

1. February 2025 : **Environmental and Social Impact Assessment Study, Construction of Osindo Dam Water Supply** in Likuyani, County Government of Kakamega. Contact: Chief Officer, Environment, County Government of Kakanega.
2. January - March 2024: **Environmental and Social Impact Assessment, Nambale Sewerage Project**. Proponent: Lake Victoria Water Works Development Agency (LVNWWDA).
3. March 2024: **Environmental and Social Impact Assessment, Urban Water Development Project, Misikhu Market**.
4. April – June 2023: **Environmental Audit for Shanta Gold Kenya Limited (SGKL) for Mining Exploration** in Lirhanda and Siaya Corridors, Western Kenya. Contact: Chief Geologist, Acacia Exploration and Mining Company.
5. 2022: **Kenya Climate Smart Agriculture Project (KCSAP)** World Bank & County Government of Kakamega Project: Environmental and Social Impact Assessment for Comprehensive Project Report for the proposed rehabilitation of **Machine Dam water project** for increased food production at Milimani sub-location Sinoko Ward, Likuyani sub county in Kakamega County, Kenya.
6. 2022: **Kenya Climate Smart Agriculture Project (KCSAP)** World Bank & County Government of Kakamega Project: Environmental and Social Impact Assessment for **Butere Community Poultry Hatchery & Water Project at Eshirembe in Marama Central Ward, Butere Location, Butere Sub-County in Kakamega County, Kenya**.
7. 2022: **Kenya Climate Smart Agriculture Project (KCSAP)** World Bank & County Government of Kakamega Project: Environmental and Social Impact Assessment **Summary Project Report for Promotion of African Leafy Vegetables Production Under Small-Scale Irrigation in Mwichemo Village, Idakho North Ward, Mutaho Location, Kakamega South Sub-County, Kakamega County**.
8. 2022: Environmental and Social Impact Assessment for **Mixed Use Development at Sichirayi, Kakamega, Kenya**.
9. 2022: Environmental and Social Impact Assessment for **County Government of Kakamega Open Air Markets at Lidambitsa, Bungasi, Shibinga, Koyonzo, Kambiri and Shatsala**. Contact Person: Chief Officer, Department of Trade, County Government of Kakamega.
10. 2022: Environmental Audit for **Shanta Gold Kenya Limited (SGKL) for Mining Exploration in Lirhanda and Siaya Corridors, Western Kenya**. Contact Person: Chief Geologist, Acacia Exploration and Mining Company, UK

11. 2021: Environmental Audit for **Butali Sugar Factory; Sugar Processing Activities; Briquetting Plant; Turbo and Chekalini Weigh Bridge.**
12. 2021: Environmental Audit for **Acacia Exploration Kenya Limited (AEKL) for Mining Exploration in Lirhanda and Siaya Corridors, Western Kenya.** Contact Person: Chief Geologist, Acacia Exploration and Mining Company, UK
13. 2019 - 2010: Environmental and Social Impact Assessment (ESIA) for the **Proposed Kakamega County Waste to Energy incineration plant at Shianda.** Contact Office: VRH Holding AB P.O Box 1081 – 26921 Bastad, Sweden
14. 2019 - 2010: Environmental and Social Impact Assessment (ESIA) for the **Proposed Construction of Water Supply Scheme at Lake Kanyaboli, Siaya, Kenya.** Contact Person: County Works Department, Siaya.
15. Environmental Impact Assessment for the Proposed **Shirere Market, Kakamega.**
16. Environmental Impact Assessment for **the Proposed Mixed Urban Development** in Butere Sub-county, Kakamega County.
17. Environmental and Social Impact Assessment of **the proposed Shirere Market, Kakamega.**
18. Environmental Impact Assessment (ESIA) for the **proposed Office Block, Tuition Building, Anatomy laboratory and Foot Bridge at Masinde Muliro University of Science & Technology.**
19. Environmental Impact Assessment for the **proposed construction and completion of Classrooms for St Francis Eshirembe Secondary School in Kakamega**
20. Environmental Impact Assessment for the **proposed construction and completion of Classrooms with Verandah at Shibembe Secondary School in Kakamega.**
21. Environmental Impact Assessment for **Bitumen construction on Kakamega - Shieywe road.**
22. Environmental and Social Impact Assessment (ESIA) for the **Removal and Disposal of Water Hyacinth at Selected Beaches on Lake Victoria, an LVEMP Phase II Project.**
23. Environmental and Social Impact Assessment (ESIA) for **Construction of Bio-toilets at St Aquinas Nanderema Secondary School and Sigalame Secondary School in Busia, Kenya, an LVEMP Phase II Project.**
24. Environmental & Health Impact Review for the **Establishment of 1050Mw Coal Plant in Lamu, Kenya** for County Assembly of Lamu.
25. Environmental Impact Assessment, **Christian Partners Development Agency (CPDA) Block; (Mixed Urban Development Complex),** Chavakali, P.O. Box 45627 Nairobi.
; Jubilee Counselling Centre, Muraka, Kakamega (along Kisumu – Kakamega rd);
26. Environmental Impact Assessment, **EIA Dominion Farms Ltd,** Private Bag, Siaya.
27. Environmental Impact Assessment, **Busembe On-farm Afforestation and Soil Erosion Control Project,** Busia, Kenya - under the LVEMP II Project.
28. Environmental Impact Assessment, **Farming and Well Water Project at Mabinju Beach Project, Busia,** Kenya - under the LVEMP II Project.
29. Environmental Impact Assessment, **Fish Landing Site Construction and Aquaculture Project at Bulwani Beach, Busia,** Kenya- under the LVEMP II Project.

30. Environmental Impact Assessment, **Kuywa Weir and Dam, Bungoma. Lake Victoria North Catchment Area, P.O. Box 774 – 50100 Kakamega.**
31. Environmental Impact Assessment, **Sosiani Weir and Dam, Uasin Gishu. Lake Victoria North Catchment Area, P.O. Box 774 – 50100 Kakamega.**
32. Environmental Audit, **Chepkit Dam, Malava. Lake Victoria North Catchment Area, P.O. Box 774 – 50100 Kakamega.**
33. **EIA Kenya Industrial Estates (KIE) Complex, Kakamega, P.O Box 700 – 50100, Kakamega, Contact Manager Kakamega**
34. **EIA Lake Victoria North Water Supply Board (LVNWSB), P. O. Box 673 - 50100 Kakamega Tel. 056 – 30795.**
35. **EIA Kuvasali Community Water Supply in Malaba, W. Kenya under African Development & Emergency Organization P. O Box 50144 - 00200 Nairobi**

15.0 REFEREES

1. Prof. Bernadette Sabuni

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2. Dr. Nicodemus Nyandiko

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3. Ms. Stella K. Nganyi

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