

## CURRICULUM VITAE

### PERSONAL DATA

Names: Dr. Gelas Simiyu Muse

Date of birth: 1st January 1960

Place of birth: Bungoma

Nationality: Kenyan

Family status: Married

### ADDRESS

At work: School of Environmental Studies

University of Eldoret

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### ACADEMIC QUALIFICATION & TRAINING

1985: B.Ed (Sc), (Hons) Upper Second Class, Nairobi University (Kenyatta University College);

Subjects: Chemistry (Major) & Physics (Minor)

1987: Institutional management course (KESI) at Eregi Teachers Training College

1993: A certificate in Environmental Impact Assessment (EIA) – A course organized by the School of Environmental Studies, Moi University

1995: MPhil., Moi University, Eldoret;

Environmental Studies (Environmental Health).

Thesis: Levels of trace elements zinc, lead, cadmium, molybdenum and copper in water, soils, plants (*Typha latifolia*, *Cyperus papyrus*),

2000: DPhil., Moi University, Eldoret;

Environmental studies (Environmental Health).

Thesis: Levels of trace elements zinc, lead, cadmium, molybdenum and copper in water, soils and plants (*Typha latifolia*, *Cyperus papyrus*, *Cynodon nlefuensis*) and in tissues of grazing wild animals (zebra and buffalo) in Hell.s Gate National Park, Naivasha.

2008: Attended a short course on Municipal Wastewater Management. – A course organized jointly by NEMA and UNEP/GPA under a UNEP/GPA Regional Project entitled „UNEP/GPA Action Plan on Municipal Waste Water Management in Coastal Cities.. 7th – 11th April 2008, Utali College, Nairobi

## EMPLOYMENT

2011 July – Date: Senior Lecturer, School of Environmental Studies, Department of

Environmental Biology and Health, Chepkoilel University College (Currently  
University of Eldoret)

2010, February – June 2011: Senior Lecturer, School of Environmental Studies,  
Department of Environmental Biology and Health, Moi University

2000, December – February 2010: Lecturer, School of Environmental Studies,  
Department of Environmental Biology and Health, Moi University.

1997 – 2000, December: Senior Administrative assistant, Faculty of Education, Moi  
University

1995 – 1997: Administrative assistant Faculty of Education Moi University

1990, December – 1995: Administrative assistant Centre for Human

Resource Development, Moi University

1990, January – December 1990: Headmaster, Chebosi Secondary School,

Webuye, Bungoma

1989 February – January 1990: Headmaster Sirakaru Secondary School

Tongaren, Bungoma

1986, January – 1989, January: Deputy Heamaster, Sirakaru Secondary

School Tongaren, Bungoma

1985, July – 1986 January: Assistant Teacher Sirakaru Secondary School

Tongaren, Bungoma



## EXPERIENCE AND RESPONSIBILITIES

2013 August – Date: Head of Department, Environmental Biology and health, School of Environmental Studies, University of Eldoret

2011 August – July 2013: Acting Head of Department, Environmental Biology and health, School of Environmental Studies, Chepkoilel University College

(University of Eldoret)

2008 April: A trainer in the UNEP/GPA Regional Project training course on Municipal Wastewater Management entitled „UNEP/GPA Action Plan on

Municipal Waste Water Management in Coastal Cities..

2006 - November 2009 School of Environmental Studies Representative in the Moi University, IGERD Management Board

2005 – 2011: School of Environmental Studies. representative in the Moi

University, Senate disciplinary committee

2002 – August 2009. Timetable and Examination Coordinator, School of



## Environmental Studies

2001 – 2008: Task coordinator, Capacity Building Component, Lake Victoria Environmental Management Project (LVEMP I), and currently a member of the LVEMP II, Applied Research, Technical Working Committee.

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## COMMUNITY SERVICE

### IP OF PROFESSIONAL ASSOCIATIONS AND SOCIETIES

Have been serving communities in various projects and membership to school boards as follows:

1. Conservation and protection of spring water in Tongaren and Kimilili divisions under START International Secretariat funded by US National Council of Science (2005-2006)
2. Member of the Board of Governors Kamusinde Secondary School, Bungoma County

2003 to date

3. Member of Board of Governors Friends School Naitiri, Bungoma County 2006 to data

4. Chairman Board of Governors Kamusinde Secondary School, 2006 to date

5. Chairman Board of Governors Friends School Naitiri, 2009 to date

MEMBERSHIP OF PROFESSIONAL ASSOCIATIONS  
AND SOCIETIES

1. National Environmental Management Authority (NEMA) (Kenya) -  
Registered Environmental Impact Assessment (EIA) and Environmental  
Audit (EA) Lead Expert, No. 0654
2. Geothermal Association of Kenya – Membership No. 1-115

## RESEARCH AND CONSULTANCY EXPERIENCE

1993: Master of Philosophy thesis on "Levels of selected trace elements in Olkaria Geothermal fluids and their implications to the environment."

1997-1998: A 12-month D.Phil. research on "Levels of selected trace elements in Olkaria Geothermal Field and their health Implications to grazing will animals (Zebra *Equus burchelli* and Buffalo *syncerus caffer*) in Hell's gate National Park, Kenya".

2003: Team leader in the rapid assessment of the buffering capacity of Siteko wetland Busia on behalf of the LVEMP Wetland component, Busia.

2004: Reviewed the SMEC International Pty Ltd Project draft report “Buffering Processes and Capacity of Wetlands in the Kenya Portion of the Lake Victoria Basin.”

2004: Research for developing national capacity to implement industrial projects under the UNFCCC Kyoto protocol-CDM, coordinated by 4-UP Consultants, Nairobi. 2003

2004: Study of the “Nutrient dynamics in Marula wetland, Uasin Gishu, district, Kenya” in collaboration with SMEC International PTY LTD as part of the study on “Buffering processes and Capacity of wetlands in the Kenya portion of the Lake Victoria basin”.

2005: Study of water quality and alternative uses of spring water to enhance food security and health for rural communities at the foot of Mount Elgon, Bungoma district, Kenya. Moi University Research Grant, 2005.



2006: Greenhouse Gases, methane and carbon dioxide and the diminishing water resources in Lake Victoria basin, Kenya. Research grant awarded by The START International Secretariat, 1st January -20th November 2006.

2008: Integrated assessment of land use changes, organic carbon, greenhouse gases and spring water variability in the middle Nzoia River catchment, Kenya. Research grant by The START International Secretariat.

2009(May-August): Subcontracted by SMEC International Pty Ltd as an Environmentalist for Sectoral Environmental Impact Assessment (SEIA) Study report for the Ministry of Energy, Kenya. Final report submitted on 30th of August 2009.

2010 (April – December) Assessment of heavy metals in indigenous green vegetables (Spiderplant, *Solanum nigrum*, *Amaranthus* spp) sold in Eldoret town and their human health implications. Moi University research grant

2010 (May – October) Maximizing heat energy and nutrients recovery from sugarcane wastes as an intra-Household resource allocation alternative in Kenya. National Council of Sc & Techn Research grant

2011 (November) Team leader for Environmental and Social Impact

Assessment of the Paka- Silale Block for Geothermal Development Corporation (GDC) projects, North Rift Kenya. Final study report may be accessed at: [www.nema.go.ke/eia828paka-silale-gdc-e](http://www.nema.go.ke/eia828paka-silale-gdc-e)

2012 (January) Team leader for Environmental and Social Impact Assessment of the Menengai Modular power plant project for Geothermal Development Corporation (GDC) Central Rift, Kenya. Final report may be accessed at: [www.nema.go.ke/:eia827](http://www.nema.go.ke/:eia827)

2012 (June) Team leader for Environmental Audit Report of the Menegai geothermal exploration drilling project for Geothermal Development Corporation (GDC) Central Rift, Kenya

2012 (July) Team leader for Environmental and Social Impact Assessment Study Report of the proposed 10 boreholes and Seismic shot holes in Paka-Silali



geothermal project area for Geothermal Development Corporation (GDC)  
projects, North Rift Kenya

2013 (February). Team Member for Environmental Impact assessment for the  
proposed Sergoit Golf course and wildlife resort Study Report, Uasin Gishu  
County. Sergoit Holdings Company

2013 (May). Team leader for Environmental and Social Impact Assessment for the proposed Menengai View point Radio communication for Geothermal Development Company

2013 (May). Team leader for Environmental Impact assessment for the proposed chemical aerial sprays for control of Grey Leaf Spot (GLS) in maize in Sabot Division, Trans Nzoia County. Kenya seed Company

2013 (September) Team leader for Environmental and Social Impact Assessment for the proposed 90 MW Menengai Power Plant Projects for Geothermal Development Company

2013 (March) Team leader for Environmental and Social Impact Assessment for the proposed tarmac road from Hobley.s volcano to Orpower4 Power Plant, Naivasia. Client Orpower4 Inc.

## THESES SUPERVISION AND EXAMINATION

Supervised M. Phil. And DPhil theses

1) Koech, K. Wilfred (2003). Assessment of water quality parameters and concentration of selected metals in Dionsoyiet River in Kericho municipality.

M.Phil. Thesis, Moi University. Kenya

2) Jackim. M. Nyamari (2005). Assessment of heavy metals in meat consumed in Eldoret Town and its health implications on consumers. Mphil Thesis, Moi

University, Kenya.

3) Kungu D. Mwangi (2006). Industrial Solid Waste Management in Medium Sized Towns: A Case of Kitale Town Mphil Thesis, Moi University, Kenya.

4) Mwendwe B. Gituku (2007). Impact of tea cultivation and processing on the quality of surface waters in Nandi Hills Tea Estates. M.Phil. Thesis, Moi University, Kenya.

5) Makamure, Sipiwe (2007). Teratogenicity of whole pulp and paper mill effluent on endemic *Xenopus laevis* in River Nzoia, Kenya. M.Phil. Thesis, Moi University, Kenya.

6) Macharia K. Peter (2008). A Study of Industrial Noise Pollution Levels and Health Impacts on Workers in Eldoret Town. M.Phil. Thesis, Moi University, Kenya.

7) Salee Nthenya (2008). Temporal lead contamination of geophagic materials in Eldoret Municipality and its health implications to women. Mphil Thesis, Moi University, Kenya

- 8) Njagi M. Felix (2008). Application of grey-water in wastewater gardens - towards a sustainable wastewater management: A case study of Thika Municipality, Mphil Thesis, Moi University, Kenya
- 9) Mwiva R. Nzomo (2009). Use of phytoplankton as biological indicators of water pollution in Kisumu Bay Winam Gulf, Lake Victoria. M.Phil. Thesis, Moi University, Kenya.
- 10) Imbayi Kiteresi Linet (2009). Water quality assessment for precursors (humic and fulvic acid) of disinfection by-products and aquaculture in Kesses reservoir, Eldoret-Kenya. Mphil Thesis, Moi University, Kenya
- 11) Ngure N. Veronica (2009). Spatial and temporal variations of heavy metals in the human environment and their health implications in Eldoret Municipality, Kenya. D.Phil. Thesis, Moi University, Kenya.
- 12) Omambia Motondi Bernard (2010) Assessment of heavy metals in indigenous green vegetables consumed in Eldoret town and their human health implications. Mphil Thesis, Moi University, Kenya
- 13) Maniragaba Abias (2010) Bioremediation of acid mine drainage using sulphate reducing bacteria: A case study of Rosterman gold mine Kakamega-Kenya. Mphil Thesis, Moi University, Kenya
- 14) Josephat Kibet Bitok (2010) Assessment of concentrations and bioavailability of selected trace elements found in soils and mature maize grains in Turbo division of Uasin-Gishu county. Mphil Thesis, Moi University, Kenya
- 15) Polong Francis (2010) Assessment of distribution and bioavailability of heavy metals in sediments from Lake Naivasha. Mphil Thesis, Moi University, Kenya

16) Nyamwamu Gladys Bonareri (2013) Benthic Macro-invertebrate Abundance, Diversity and Distribution as an Indicator of Water Quality in River Mbogo, Lake Victoria South, Kenya. MScI Thesis, University of Eldoret, Kenya

17) Judith Jepkoech (2013) Fractionation and bioavailability of heavy metals in water and sediments in Sosiani River, Uasin Gishu district, Kenya. MScI Thesis, University of Eldoret, Kenya

18) Elizabeth wambui (2013) Integrated heat energy and nutrients recovery from sugarcane wastes collected from Chemilil Sugar company, Kenya. MScI Thesis, University of Eldoret, Kenya

19) Grey Omutiti Mausi (2013) Assessment of Selected Heavy Metals Concentrations in Fresh Fruits and Health Implications to Consumers in Eldoret Municipality, Kenya. MSc. Thesis, University of Eldoret, Kenya

#### Some of the Theses Examined

1) David Manguya Lusega (2013) Distribution and partitioning of toxic metals (Pb, Cd, Cr and Cu) in Water and core sediments and their trophic transfers to fish in Lake Victoria, Kenya. PhD thesis. University of Eldoret, Kenya

2) Eunice Yabann (2013) The Utilization of Cassava (*Manihot esculenta*) and Quality Characteristics of improved Varieties: A case of Marigat, Baringo County. MSc thesis. University of Eldoret. Kenya

3) Gichana Zipporah Moraa (2013) Effects of Human Activities on Water Quality and Macroinvertebrates along Nyangores Stream, Mara River Basin, Kenya . MSc thesis. University of Eldoret, Kenya

4) Jelia Ayien (2013) Uptake of selected metal contaminants from distillery effluent by crops commonly grown in Western Kenya (*Ipomoea batatas*, *Eucalyptus grandis*, *Saccharanum officinarum* and *Zea mays*). MSc thesis. University of Eldoret, Kenya

5) Collins Ndega Shikali (2013) Radionuclide content of sand used for construction in Kakamega County and associated indoor radon diffusion

doses. MSc. Thesis. Masinde Muliro University of Science and Technology, Kenya

6) Wafula N. Wanyama (2013) Fractionation Studies of Selected Heavy Metals in Sediments of Sosiani River, Eldoret town, Kenya. MSc thesis. University of Eldoret. Kenya

7) Billy A. Ombisa (2013) Road Traffic Accidents in PSVs and Livelihoods in Kakamega Municipality, Kenya. MSc thesis. Masinde Muliro University of Science and Technology. Kenya”

8) Pamela I. Shibusse (2013) Assessment of fire disaster preparedness in secondary schools in Vihiga County, Kenya. MPhil thesis. Masinde Muliro University of Science and Technology. Kenya

9) Kipkorir K.G. Kiptoo (2013) Transference of Aflatoxin in Animal Feeds to Livestock: Application for Risk to Human. DPhil thesis. University of Eldoret. Kenya

10) George Kwedho (2012) A Study of the Management of Human Waste in the Informal Settlements of Eldoret Municipality, Kenya. DPhil thesis. University of Eldoret. Kenya

11) Mary A. Opiyo (2010) Influence of stocking density and background colour on the performance and survival of Nile Tilapia Fry (*Oreochromis Niloticus*). MPhil thesis. Moi University. Kenya



- 12) Safina Musa (2010) Pesticides and Mercury Contamination in Lower Nyando/Sondu-Miriu and Yala/Nzoia Rivers in Lake Victoria Basin, Kenya. MPhil thesis. Moi University. Kenya
- 13) Nakitare E. Ojiambo (2010) Performance of Natural wetlands in Domestic Wastewater Treatment- A case study of Moi University. MPhil thesis. Moi University. Kenya
- 14) Edda Chemutai Rutoh (2010) Prevalence of home delivery and perceived associated risk factors among mothers attending child welfare clinic in Bomet district, Kenya. MPhil thesis. Moi University. Kenya
- 15) Samson Mandela Machera (2010) Efficacy of effluent treatment by constructed wetlands, the case of Chemomi Tea Factory wastewater treatment plant, Nandi South District, Kenya MPhil thesis. Moi University. Kenya
- 16) Omutange Saji S. Elija (2010) Metal Partitioning along Agro-industrial Effluent Sites in River Nzoia, Kenya. MPhil thesis. Moi University. Kenya
- 17) Biwott Gladys Chelagat (2010) Analysis of Domestic Water Demand in Eldoret Municipality, Kenya. MPhil thesis. Moi University. Kenya
- 18) Ali Sabatia Ali (2005). Integrating Environmental Management (Design) in the Development of Geothermal Energy: Cases of Olkaria Geothermal Project and Menengai Prospect of Nakuru District, Kenya. MPhil thesis. Moi University. Kenya
- 19) Mang.ira K. Solomon (2009).River water pollution abatement: Towards Effective Legal and Regulatory Framework, a Case of River Nzoia". MPhil thesis. Moi University. Kenya
- 20) Odhiambo O.W. George (2009). Utilization of bricks in the management of

fluorides in drinking water supplies: A case study of Lobo plains, Bogoria, Kenya. MPhil thesis. Moi University. Kenya

21) Musavi Bernard Luganda (2009). Investigation and quantification of Amitraz Residue in Milk Samples in Uasin Gishu and Nandi District. MPhil thesis. Moi University. Kenya

#### External Theses and dissertations Examined

1) Phiri Anthony Hilary (2008). Impact of waste management on the quality of life in Tshwane. D. Tech Thesis, Tshwane University of Technology, Pretoria.

2) Lydia Gaspare (2007). Levels and distribution of polycyclic aromatic hydrocarbons (PAHs) in interstitial water, surface sediment and oysters from the intertidal areas of Dar Es Salaam". M.Sc., University of Dar Es Salaam

3) Immaculata Nshange Raphael (2006). Assessment of pollution of groundwater sources due to hydrocarbons from petroleum products storage and selling". MSc Dissertation, UCLAS, Dar es Salaam.



- 4) Kiula Fanuel Anthony (2006) Modeling the effects of hydrodraulic loading on the performance of horizontal subsurface flow constructed wetland. MSc Dissertation, UCLAS, Dar es Salaam
- 5) Anael A. Macha (2005). The assessment of Particulate Deposition of Nutrients and Lead on the Lake Victoria Using Dry Deposition Plate. MSc Dissertation, UCLAS, Dar es Salaam.
- 6) Kilembe Andrew. (2005). Evaluation of total atmospheric deposition of nutrients and lead on Lake Victoria by using water surface sampler and Nylasorb membrane filters. MSc Dissertation, UCLAS, Dar es Salaam.
- 7) Lusako Raphael (2005). Arsenic contamination in drinking water sources in mining areas of Lake Victoria zone Tanzania and its removal by adsorption using stabilized Ferralsols. MSc Dissertation, UCLAS, Dar es Salaam.
- 8) Pamela Semiono (2005). Assessment of indoor air pollution from combustion of cooking fuelwood, charcoal and kerosene in rural areas of Tanzania. MSc Dissertation, UCLAS, Dar es Salaam.
- 9) Said Ling.wala (2005). Assessing maximum number of UASB reactors in series that gives an optimal performance on treating black and grey wastewater at household level. MSc Dissertation, UCLAS, Dar es Salaam.
- 10) Julius Ecuru (2001). Residual chlorine decay in the piped drinking water Distribution system of Kampala. M. Sc. thesis. Makerere University. Kampala.

External Examiner:

Currently Appointed External examiner Department of Environmental Sciences  
Kenyatta University from May 2014

Appointed External examiner Department of Environmental Engineering,  
University College of Lands and Architectural studies (UCLAS), Dar es salaam  
University, Tanzania, for three years, from June 2004 to June 2006.

## PUBLICATIONS

1 Simiyu G.M.and Tole M.P. (2004). pH and variations of some heavy metals

in the infiltration ponds at Olkaria, Kenya. Journal of African Environmental Review Vol. I No. 1 pp1-14

2 Simiyu G. M. and. M. P. Tole (2007). Potential of geothermal activities to contaminate an arid and semi arid pasture at the Hell.s Gate National Park, Kenya. Journal of Building and Land Development. Vol. 14, Issue No.1 pp 52-63

3 Kungu M.D., Magero J.M., Simiyu M.G. (2007). Towards Effective Solid Waste Management in Medium Sized Towns in Kenya: A Case of Kitale Town. MAARIFA: A Journal of Human and Social Sciences. Vol. 2 Issue No 2 pp 204-214

4 Nyamari J.M. and G.M. Simiyu (2007). Urban livestock and potential human health risks in Eldoret town, Kenya. Journal of Building and Land Development. Vol. 14, Issue No. 2. pp 100-107

5 Simiyu, G.M., J. Ngetich and T.A. Esipila (2009). Assessment of spring water quality and quantity, and health implications in Tongaren division, Nzoia River catchment, Kenya. Afr. J. Ecol., 47 (Suppl. 1) 99-104

6 Adams D.D. and G.M. Simiyu (2009). Greenhouse gas (methane and carbon dioxide) emissions from a tropical river in Kenya: the importance of anthropogenic factors on natural gas flux rates. Verh. Internat. Verein.

Limno. Vol. 30 (Part 6) pp 887-889

7 Simiyu G.M. and D.D. Adams (2009). Sediment and nutrient transport and groundwater sources in the Nzoia River watershed, Kenya, East Africa. *Verh. Internat. Verein. Limnol.* Vol. 30 (Part 6) pp 884-886

8 Simiyu G.M., Tom E. & D.D. Adams (2009). Seasonal variability in groundwater resources available to rural communities in western Kenya In Tailor R., Tindimugaya C., Owor M. and Shamsudduha M. (Eds, 2009). *Ground Water and Climate in Africa*. International Association of Hydrological Sciences Ltd (IAHS Press). London. pp 82-87

9 Nthenya S.D., Simiyu G.M. & T.M. Munyao (2010). Temporal lead contamination and health risks of geophagia in Eldoret Municipality, Kenya *Int. J. Biol. Chem. Sci.* 4(4): 1056 – 1064.

10 Omambia B.M., Simiyu G.M. & S.T. Lutta (2011). Assessment of Heavy



Metals in Indigenous Green Vegetables (*Amaranthus blitum*, *Solanum nigrum* and *Cleome gynandra*) Consumed in Eldoret Town, Kenya. *Journal of Techn and Soc. Economic Development*), Vol. 1, Issue No. 1: 145-150

11 Kelonye F.B., Opata G.P. & Simiyu G.M. (2011). Spatial distribution and consumption patterns of wood fuel in Sabatia division, Kenya. *Journal of Techn and Soc. Economic Development*), Vol. 1, Issue No. 1: 109-117

12 Ndwiga J., Simiyu G.M. & J.M. Njiru (2011). Effects of Stocking Densities on Growth and Survival of Juvenile Nile Tilapia (*Oreochromis Niloticus*, Linn. (1858) In Hapa Nets. *Journal of Techn and Soc. Economic Development*), Vol. 1, Issue No. 1: 105-108

13 Kungu, M.D. & Simiyu G.M. (2012). The challenges of oil waste management in Kenyan urban centres: A case of Kitale. International Journal of Current Research. Vol. 4, Issue, 01, pp.276-280

14 Jepkoech J, Simiyu G.M., and Arusei M. (2013). Selected Heavy Metals in Water and Sediments and their bioconcentrations in plants in Sosiani River, Uasin Gishu County, Kenya. Journal of Env. Protection

15 Ngure V., Sitati N., Shisia S. Simiyu G. Kinuthia G. and Kelonye F. (2013) Health implications of heavy metals in soil, scalp hair and selected food crops within Eldoret Municipality, Kenya. International Organization of Scientific Research Journ.

16 Oyoo-Okoth E., Osano O., Mugo-Bundi J., Simiyu G.M., Namu F.M., Ph.D;

Kiptoo K.K., Jumba B. (2014). Combining toxicological knowledge of fish-parasite interaction and human dietary patterns in understanding epidemiology of element transfers from fish to humans. Journ. Science of Total Environ.

17 Mausi G., Simiyu G. and Lutta S. (2014) Assessment of selected heavy metal concentrations in selected fresh fruits in Eldoret town, Kenya. Journal of Environment and Earth Science.

WORKSHOP PROCEEDINGS

1) Simiyu, G.M. and Tole, M.P. (2004). Concentrations of toxic metals Pb and Cd in selected vegetation in Hell.s Gate National Park, Kenya. Proceedings of the 3rd KenGen Geothermal Conference, 20th-23rd April, 2004, Safari Park Hotel, Nairobi, Kenya. CD-ROM

2) Sitati, S.S. and Simiyu, G.M. (2004). Accelerated Geothermal Development as a means for poverty reduction: Case study, Kenyan. Proceedings of the 3rd KenGen Geothermal Conference, 20th-23rd April, 2004, Safari Park Hotel, Nairobi, Kenya. CD-ROM

3) Simiyu, GM, MP Tole and DC Theophilus (2004). Geothermal activities and concentrations of trace elements in waters, soils and plants of the Hell's gate National Park, Kenya. In Mgaya, YD, Msaki, P.K. and Kivaisi, AK (Eds)(2004). Current Trends in Environmental Science Research in Eastern Africa. Proceeding of an International Symbosium on Scientific

Research on Environment. Sept 23rd – 26th 2002. Dar-es-Salaam Faculty of Science, University of Dar-es-Salaam 431pp

4) Simiyu, G.M., Tole, M.P. and Davies, T.C. (2003). Trace element concentrations in Hell.s gate National Park and health implications for zebra (*Equus burchelli*), Kenya.” The 2ND KenGen Geothermal conference. UNEP, Nairobi 7 –11 April 2003. CD ROM

5) Simiyu G.M. and Tole, M.P. (2000). Concentrations of selected trace elements in waters, soils and plants within Olkaria Geothermal Field, Nakuru, Kenya. Proceedings World Geothermal Congress 2000. Kuyushu-Tohoku, Japan May 28-June 10 2000. CD ROM

## SEMINARS AND CONFERENCES PAPERS

1) Simiyu G.M., Mwasi B. N., Munyao T. M. and Sudoi V.: Identification and evaluation of potential environmental and social impacts of geothermal exploration drilling in North Rift, Kenya. 4th African Rift Geothermal Conference (ARGeo-C4). Geothermal: Solution to Africa.s Energy Needs. 21-23 November 2012, UN Gigiri Complex, Nairobi, Kenya.

2) Simiyu G.M., Esipila T. & Adams D.D.: Estimation of seasonal recharge – Nzoia River Catchment, Kenya. Training Course and Workshop Mwthods for the study of long-term groundwater dynamics. November 1-5, 2010, Tozeur, South Tunisia

3) Ucakuwun, E.K., Munyao, T.M., Simiyu, G.M. , Esipila, T.A. and E. Chepkosgei: Landslide occurrence in Khuvasali, Kakamega North District, Kenya. 4Th Moi University International Conference, 29Th July 2008 – 1St

August 2008, Moi University MTL, Kenya

4) Ucakuwun, E.K., Munyao, T.M., Simiyu, G.M. , Esipila, T.A. and E.  
Chepkosgei: Mass Movement Occurrence in Kipsaina-Kabokbok Area,  
Keiyo District, Kenya. 4Th Moi University International Conference, 29Th  
July 2008 – 1St August 2008, Moi University MTL, Kenya

5) Simiyu G.M. and M. D., Kungu: Municipal solid waste disposal practices in  
Kitale town, Kenya: Role of training and awareness creation. 4Th Moi  
University International Conference, 29Th July 2008 – 1St August 2008, Moi  
University MTL, Kenya.

6) Kungu M. D. and G.M., Simiyu: The challenges of oil waste management  
in Kenyan urban centres: A case of Kitale town. 4Th Moi University





International Conference, 29Th July 2008 – 1St August 2008, Moi University  
MTL, Kenya

7) Macharia, P. K., G.M. Simiyu and F. O., Odipo: Assessment of industrial  
noise pollution health effects in Eldoret municipality, Kenya. 4Th Moi  
University International Conference, 29Th July 2008 – 1St August 2008, Moi  
University MTL, Kenya

8) Mundui, J., G.M., Simiyu and D. Adams: Greenhouse Gas Studies on the  
Nzoia River, Western Kenya: Relationships to water quality. 4Th Moi  
University International Conference, 29Th July 2008 – 1St August 2008, Moi  
University MTL, Kenya

9) David, M.K., Simiyu, G.M. and J.M., Magero: Challenges of solid waste  
management in the Lake Victoria.s hinterland urban centres: A case of  
Kitale town. NEMA/Kenyatta University, National Environment Conference.

19th – 21st May 2008, Kenyatta University, Nairobi, Kenya.

10) Macharia, P.K., Simiyu, G.M. and F.O. Odipo: Industrial noise pollution levels and potential health effects in Eldoret municipality, Kenya. 3rd Moi University international Conference, Moi University MTL, Kenya.

11) Salee, D.N. Simiyu, G.M. and T.M. Munyao: Temporal lead contamination of geophagic materials in Eldoret municipality, Kenya. Moi University 3rd Annual International Conference, Moi University MTL, Kenya.

12) Simiyu, G.M. and J. Ngetich: Diminishing spring water resources in Nzoia River catchments and implications to riparian rural communities, Kenya. International Conference on Ecosystems Changes and Implications on Livelihoods of Rural Communities in Africa. Ecosystem conference. 18th-20th October 2006, Kunduchi Beach Hotel, Dar es salaam, Tanzania.

13) Simiyu, G.M., J.B. Okeyo-Owuor, J. Ngetich and V.A.O. Odenyo: Study of quality and potential alternative uses of spring water in Tongaren division, Bungoma District. Moi University 2nd Annual International Conference on Science and Social Economic Development: Challenges and Opportunities in the 21st Century. 29th August to 2nd September 2006. Moi University MTL, Kenya

14) Ngetich, J.K. and G. M., Simiyu: Water Springs: Are They Safe From Contamination? Moi University 2nd Annual International Conference on Science and Social Economic Development: Challenges and Opportunities in the 21st Century. 29th August to 2nd September 2006. Moi University MTL, Kenya

15) Kungu D.M, G.M. Simiyu and M. Magero: Towards Effective Solid Waste Management in Medium Sized Towns in Kenya: A Case of Kitale Town.  
Moi University 2nd Annual International Conference on Science and Social Economic Development: Challenges and Opportunities in the 21st Century, held at Main Campus from 29th August to 2nd September 2006

16) Akuno, O.M., Khafafa, J. and G. M. Simiyu: Investigation into the possibilities of using water hyacinth weed as a source of textile fibres”  
KARI/LVEMP Conference held at Labour College, Kisumu from 16th – 21st October 2005

17) Gituku, M.B., Davies, T.C. and G.M. Simiyu: Impacts of Stream Impoundments On Water Quality Parameters In Nandi Hills Tea Estates  
Moi University 1st conference held at White Castle Motel, Eldoret from 14th – 16th 2005

18) Koech, W.K. Simiyu, G.M. and M.P. Tole: Impact of the Dionsoyiet Riverine Ecosystem on the Nutrient Loading from Sewage and Urban Runoff in Kericho Municipality, Kenya. KARI/LVEMP Conference held Labour College, Kisumu from 16th – 21st October 2005

19) Kungu D.M, G.M. Simiyu and M. Magero: Challenges of Industrial Solid Waste Management in The Lake Victoria.s Hinterland Urban Centers: A Case Of Kitale Town KARI/LVEMP Conference held Labour College, Kisumu from 16th – 21st October 2005

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2) International Journal of Environmental Resources and Public  
Health. Jackson State University, USA

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