



## **CURRICULUM VITAE**

### **PERSONAL INFORMATION**

NAME George Lukoye Makokha

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GENDER Male

DATE OF BIRTH 27<sup>th</sup> May 1959

### **QUALIFICATIONS**

1. 2003: Ph.D. (Climatology), Kenyatta University, Kenya. Title of the thesis; “Modification of the Microclimate in a changing Tropical Urban Environment: The Case of Nairobi City”.
2. 1992: M.Sc. (Geography), Kenyatta University, Kenya. Title of thesis; “A Climatological Analysis of Physiological Climate of Kenya”.
3. 1985: B. Ed (Science), Second Class Honours (Upper Division); University of Nairobi, (Geography, Chemistry)

### **CERTIFICATE TRAININGS**

1. November 2007- DAAD Alumni Expert Training on Topics of Integrated Watershed Management in Bagamoyo, Tanzania

2. 2008 -2010-Participated in a series of five (5) workshops on E-Learning for Integrated Watershed Management in Dar es Salaam, Tanzania sponsored by DAAD.
3. June-July 2011- Participated in the DAAD International Alumni Expert Seminar Training on Climate Change and Food Security: Integrated Watershed Management as Adaptive Planning Tool at Kabale, Uganda
4. December 2011- Participated in the GIZ-DAAD International Alumni Summer School Training on Water and Sanitation for the Urban Poor-Natural Hazards, Climate Change, Governance and Human Rights in Nairobi, Kenya
5. May and November 2013- Certificate on Teaching Methodology conducted by Kenyatta University Centre for Teaching Excellence & Evaluation; Covering; Teaching Methodology, Setting and Administration of Examinations, Marking and Analysis of Scores
6. September 2014- KUSCCO training on Corporate Governance held at Nairobi Sportsview Hotel Kasarani; Covering; Principles of Corporate Governance, Key responsibilities of the Board, Internal/External Governance Controls and Challenges in Sacco Corporate Governance.
7. December 2014- KUSCCO training on Leadership at Travellers Beach Hotel, Mombasa; Covering; Leadership in Contemporary Organization, Building your Personal Brand, Board and Management Relations, Enhancing Financial Access and Inclusivity, Managing Risks in a Diversified Membership, Strategic Leadership and Corporate Governance and Crafting a Winning Organization's Strategy
8. May 2016- KUSCCO training on Customer Relationship Management at Maanzoni Lodge, Machakos County; Covering; Know Your Customer (KYC) Policy, Customer Service Charter and Member Demographic Profiling and Product Development

#### COMPETENCE AND RESEARCH AREAS

Urban climate change; Climate change adaption and mitigation with special emphasis on urban environments; Bio-climate and effect of climate change on energy, human health and comfort; Integrated Watershed and Resources Management; Environmental issues in resource management and e-learning education in public universities.

## EMPLOYMENT HISTORY/WORK EXPERIENCE

2010- Present: Senior Lecturer, Kenyatta University, Geography Department

1997-2010: Lecturer, Kenyatta University, Geography Department

1992-1997: Tutorial Fellow, Kenyatta University, Geography Department

1991-1992-Graduate Assistant, Kenyatta University, Geography Department

1987-1988: Deputy Headmaster, Ingotse Secondary School, Kakamaga

1985-1987: Graduate Teacher, Ingotse Secondary School, Kakamega

## ADMINISTRATIVE RESPONSIBILITIES

### At Kenyatta University

2011 –2016: Board Member, Institute of Peace and Security Studies

2011-present: Chairman, departmental board of postgraduate studies

2011-present : Member, School of Humanities Board of Graduate Studies

2007-2015: member, Departmental Credit Waiver Committee

2012-Present: Chairman, Departmental Fieldwork Committee

2012-Present: Chairman and member of Curriculum Review committee

2013-Present: Member, Departmental ISO Committee

2015: In charge, departmental Teaching Allocation Committee

2004-2011: Departmental Representative on the Board of Postgraduate Studies (SPAS)

23<sup>th</sup> July-11<sup>th</sup> August 2008: Acting Chairman, Geography Department

21<sup>st</sup> April-19<sup>th</sup> May 2008: Acting Chairman, Geography Department

1999-2003- Departmental Examination coordinator

### At Other Institutions

2014-Present: Board Member and Chairman, Kenversity Sacco

## POSTGRADUATE SUPERVISION

### PhD Supervision

#### Completed

**2013: Wambongo Charles Recha C82/10807/08 (PhD):** Potential Climate Impacts and Associated Vulnerabilities on Water Resources and Livelihoods at House Level in Tharaka District, Kenya.

#### Ongoing

**2014: David Abel Magiya Osebe C82/25837/13 (PhD):** An Assessment of Participation Dynamics in Community Based Tourism Initiatives in the Coastal Region of Kenya.

**2016: Philip Obaigwa Sagero I84/30690/2015 (PHD):** Statistical Downscaling of Regional Climate Model Outputs and Generation of Future Climate Change Scenarios for Impact Assessment in Kenya.

### Masters Supervision

#### Completed

**Caroleen Auma Barasa C50/CE/11315/08 (M.A):** Role of Indigenous Knowledge in Seasonal Climate Forecast for Agricultural Production in Chwele Division of Bungoma County, Kenya (graduate December 2016).

**Alex Sunday I56EA/23068/13 (M.Sc):** Examining Household Water Treatment Technologies for Microbial Removal in Kabale District, South Western Uganda (graduated July 2016)

**Maruti Edwin I56/CE/14221/09 (M.Sc):** Assessment of Water Accessibility and Availability for Sustainable Livelihoods in Garissa County, Kenya (graduated December 2015).

**Kakaire Joel I56EA/20023/12 (M.Sc):** Assessment of the Effects of Mulching on Soil Hydro-Physical Properties and its Adoption in Kibaale Sub-Catchment, Soth Central Uganda (graduate in Dec. 2015)

**Madyanga, Juvenary P. I56EA/20394/2010 (M.Sc):** Analysis of the Limiting Factors in Soil Water Management Practices of Small Holder farmers in Magamba Sub-catchment of Lushoto District, Tanzania (graduated July 2015)

**Reuben Gloria I56EA/22206/2011 (M.Sc):** Assessment of the Impact of Effluents from Bonite Bottlers and China Paper Industries on the Water Quality in Karanga River, Tanzania (graduated July 2015)

**Ms. Ngondo Jamila I56 EA/20395/10 (M.Sc):** Vended Water Quality Assessment and its Implications on Price and Health in Mzimbazi Sub-Catchment, Dar-Es-Salaam, Tanzania (graduated December 2014).

**Mwenda Aselina B. I56 EA/20381/10 (M.Sc):** Effects of Industrial Waste Discharge on Water Resources and Livelihoods along Mzimbazi Sub-Catchment, Dar-Es-Salaam, Tanzania (graduated December 2014).

**Philip K. Attibu I56F/22204/2011 (M.Sc):** Assessment of Salinity and Sodidity of Water Used for Irrigation in Three Sub-Catchments in the Upper Athi River basin, Kenya (graduated July 2014)

**Amon Mwangi Karanja C50/CE/10009/08 (M.A.):** Effects of Rainfall Variability on Potato Yields in Ol-Joro-Orok Division, Nyandarua County, Kenya (graduated July 2014).

**Felix Muthomi Kithinji I56/10095/07 (M.Sc):** Assessment of Socio-economic Factors Influencing Household Use of Wetlands Resources and Conservation in Ngaciuma Sub-Catchment, Upper Tana, Kenya (graduated Dec. 2012).

**Renny Chiwa I56/10422/08 (M.Sc):** Effects of Land Use and Land Cover Changes on the Hydrology of Kiladeda Sub-Catchment in Pangani River Basin, Tanzania (graduated Dec. 2012)

**Mromba Clement I56EA/12155/09 (M.Sc):** Effects of Water Abstraction on Riparian Vegetation of Kiladeda River in Pangani River Basin, Tanzania (graduated Dec. 2012)

**Robert Kalisa I56EA/12149/09 (M.Sc):** Factors Influencing Adoption and Use of Soil and Water Conservation Measures in Bufundi Sub-Catchment, Kabale District, Uganda (graduated)

**Albert Ruhakana I56EA/12095/09 (M.Sc):** Water Quality Variability and its Impact on Rice Irrigation in Rusurirwamujyinga Sub-Catchment, Rwanda (graduated Dec. 2012)

**Peter M. Musuva I56/10712/06 (M.Sc):** The Effects of Land Use on Water resource Availability in Muoni Catchment, Machakos District, Kenya (Graduated in June 2010).

**Owilla Benedict Peter Obiero I56/10460/06 (M.Sc):** An Analysis of irrigation Water Use Efficiency in Mwea Irrigation Scheme, Kirinyaga District, Kenya (Graduated in June 2010).

**Sungu Ronald I56/10513/04 (M.Sc):** An Investigation of the Extreme Hydro-Climatic Characteristics and the Underlying Causes of the Nyando River Basin, Msc Thesis, Kenyatta University, Geography Department (graduated December 2008).

**Wambongo Charles Recha C50/7315/02 (M.A):** Seasonal Climate Forecast, Access and Use in Agricultural Production: A case of Semi-Arid South-East Kenya, MA Thesis, Kenyatta University, Geography Department (Graduated in December 2006).

#### Ongoing

**Barasa Osundwa Simon N50/CE/23003/11 (M.Env. Sc):** Impact of Climate Variability on Livelihoods among Communities of Katilu in Turkana County, Kenya.

**Ngagi Gakii Doris C50/23794/11 (MA):** Impact of Small Scale Irrigation Projects on Household Livelihoods in Chuka/Igambang'ombe Constituency, Tharaka-Nithi County, Kenya.

**David Kariuki C50/CE/23967/12 (MA):** Effects of Drought on Smallholder Farmers' Livelihoods and their Coping and Adaptive Capacity in Kwale County, Kenya.

**Ann Njeri Mwangi I56/CE/21227/12 (M.Sc):** Effects of Land Use and Land Cover Change on the Hydrology of River Ragati Sub-Catchment, Tana Basin, Kenya.

**Maurice Opiri Mwangi C50/CE/23687/12 (MA):** Effects of Rainfall on Smallholder Farmers' Livelihoods and their Coping Strategies in Mbita Division-Homabay County, Kenya.

**Aminyi John Nyongesa I56/CE/24059/12 (M.Sc):** Monitoring Lake Turkana Water Quality under Climate Change and Increased Human Activities (ongoing).

**Chebwao Simbiri Alex C50/24723/12 (MA):** Climate Variability and Coping Strategies of Smallholder Dairy Farmers in Wareng Sub-County in Uasin-Gishu County, Kenya (ongoing).

**Leah Wanjira Gikonyo C50/CE/ 26473/13 (MA):** Analysis of Forest Degradation, Climate Variability and Access to Wood Fuel Nexus in Murang'a County, Kenya.

**Njuki Pius Ndwiga C50/CE/27412/13 (MA):** Impacts of Rainfall Variability and Farmers' Adaptive Strategies on Maize Production in Embu County, Kenya.

**Kimamo John Maina C50/CE/27860/13 (MA):** Effects of Seasonal Rainfall Variability on Wheat Yields and Farmers' Adaptive Strategies in narok County, Kenya.

**Benson Nganga C50/CE/NKU/28230/13 (MA):** Determinants of Subsistence Farmers' Adaptation Methods to Climate Variability in Nakuru County, Kenya.

## THESES EXAMINED

### Ph.D.

**Julius Mburu Huh** PG/PHD/031/06: “Effects of Drought Severity on Subsistence Agriculture in the Semi Arid Laikipia District” Ph.D (Geography), Maseno University

**William Sakataka** CDS/H/05/09: Impact of Livelihood Activities on Wetland Conservation in the Upper Nzoia River Basin, Western Kenya, Ph.D (Disaster Management and Sustainable Development), Masinde Muliro University of Science and Technology

**Maurice P. Odhiambo** PG/PHD/036/2006: Effects of Agricultural Land Use on Soil Degradation in different Physiographic Units in Nyakach Sub-County, Kenya, Ph.D (Geography), Maseno University

**Gilbert Muthee Mwoga** N85/13608/2009: Topo-Sequence Analysis of Land Use Changes and Implications on Livelihood among Smallholder Farmers in Meru County, Kenya, Ph.D. (Environmental Planning and Management), Kenyatta University

**Mutavi Irene Nzisa** PG/PHD/00026/2013: Contribution of Ecosystem Services to Rural Livelihoods in Kibwezi Sub-County, Makueni County, Kenya, Ph.D. (Geography), Maseno University

**Asiego Peter Ogecha** CDM/H/204/12: Water Conservation Projects and Household Food Security in Kitui County, Kenya, Ph.D. (Disaster Management and Humanitarian Assistance). Masinde Muliro University of Science and Technology

### MA/M.SC

**Twongyirwe Ronald** 2008/HD19/1333U: Dynamics of Forest Cover Conversion in and Around Bwindi Impenetrable Forest and Impacts on Carbon Stocks and Soil Properties MSc. (ENV), Makerere University.

**Adidja Matabaro** M.Sc : Soil, Runoff and Nutrient Losses under Maize and Banana Cropping Systems in the Lwiro Microcatchment , Makerere University

**Mugarura Michael** M.Sc: Geospatial and Parametric Analysis of Climate Change Impacts on Selected Cereals in Kasese District, Rwenzori Highlands. Makerere University

**Ssekitto Rashid 2007/HD03/8335U MA:** Assessing Opportunities of Medium and Small Scale Tree Farmers in Accessing Carbon Credit Markets in Uganda, Makerere University

**Omondi M. Joseph PG/MA/040/2007 MA:** Socio-Economic Factors Influencing Population Growth in Maseno Division, Kisumu West District, Kenya” Maseno University

**Gabiri Geoffrey I56/EA/22203/2011 M.Sc.:** Effects of Climbing and Bush Beans’ Cultivation on Soil and Nutrient Losses at Middle Landscape Position in Bufundi Sub Catchment, South Western Uganda, Kenyatta University

**Petronillah S. Mutenyi PG/MA/038/2007 MA:** Effects of Brick Making Activities on the Environment of Vihiga County, Kenya, Maseno University.

**Samwel Olela Odhiambo C50/CE/15245/08 MA:** Effects of Selected Climatic Elements on Malaria Prevalence in Awendo Division, Rongoi District, Migori County, Kenya, Kenyatta University

**Susan Kangume I56/EA/22215/2011M.Sc.:** Effects of Climate Variability and Coping Strategies among Farming Communities of Bufundi Sub-Catchment, Kabale District, South Western Uganda, Kenyatta University

**Barasa Bernard 2007/HD19/9158U:** The Effects of Rainfall variation on Subsistence Crop Production in Kahangara Division of Magu District, Tanzania. MA, Maseno University.

**Alberto K. Agnes PG/MA/044/2010:** The Effects of Land Use/Cover Changes on Soil Properties in the Sio Catchment. MSc. (ENV), Makerere University.

**Owilla Benedict Peter Obiero I56/10460/06 (M.Sc):** An Analysis of irrigation Water Use Efficiency in Mwea Irrigation Scheme, Kirinyaga District, Kenya M.Sc, Kenyatta University, Geography Department.

**Sungu Ronald I56/10513/04 (M.Sc):** An Investigation of the Extreme Hydro-Climatic Characteristic and the Underlying Causes of the Nyando River Basin, MSc Thesis, Kenyatta University, Geography Department.

**Wambongo Charles Recha C50/7315/02 (M.A):** Seasonal Climate Forecast, Access and Use in Agricultural Production: A case of Semi-Arid South-East Kenya, MA Thesis, Kenyatta University, Geography Department.

## RESEARCH GRANTS



2011-2014 –Awarded research grant by National Council for Science and Technology (NCST), since changed to National Commission for Science, Technology and Innovation (NACOSTI), under Research grant **No. NCST/5/003/w/2<sup>nd</sup> call/90 worthy KES. 2.2 million**, to undertake research on “Assessment of status, opportunities and challenges of e-learning in public universities in Kenya”. **Researchers: Prof. Dorothy N. Mutisya (SEKU) and Dr. George L. Makokha (KU).**

2012-2014- Part of a Research Team under the Institute of Peace and Security Studies (IPSS) that was awarded a grant worthy **Ksh. 3 million** to undertake a study on “The Kenya Police Service Training Needs Assessment (TNA). **Research Team: Dr. Lucy Maina (PI), Dr. George L. Makokha (Researcher), Dr. Cyprian Kavivya (Researcher), Dr. Merecia Sirera (Researcher) and Prof. Olive Mugenda (Research Advisor).**

#### CONFERENCES/SEMINARS/WORSHOPS

2014: Workshop on Finalization of Accreditation Documents for the National Open University of Kenya (NOUK) held at Multimedia University of Kenya from 23<sup>rd</sup> to 25<sup>th</sup> July 2014. **Participated in developing geography curriculum for NOUK.**

2013- 3<sup>rd</sup> International Conference on Strategic Theory 2013 on Maritime Security off Eastern Africa: Beyond Piracy held in White Sands Hotel Dar-es Salaam, Tanzania. **Participated as Group leader and presented group findings.**

2011- International Alumni Summer School on Water and Sanitation for the Urban Poor held from 4<sup>th</sup> -18<sup>th</sup> December 2012 at PCEA Guest Hotel, South C, Nairobi, Kenya. **Participated as member of the Local Organizing Committee, Group leader and presented group findings.**

2011- Expert seminar on climate change and food security 26<sup>th</sup> June-9<sup>th</sup> July 2011 at Kabale (Sefers Hotel), Uganda. **Presented a paper on Global Environmental Change and Food Security.**

2011- Lake And Catchment Research Symposium (LARS 2011) held from 14<sup>th</sup> -18<sup>th</sup> March 2011 at Kenyatta University Conference Centre (KUCC), Nairobi, Kenya. **Participated as member of the Local organizing Committee and presented two oral papers and two posters.**

2011- Regional Training of Trainers Course on Climate Change and Sustainable Land-Water Management Sponsored by World Bank Institute and JICA and held at AICAD from 22<sup>nd</sup> to 25<sup>th</sup> February 2011.

2010-E-learning workshop for Masters Programmes of Integrated Watershed Management held at Stone Town, Tanzania from 14<sup>th</sup> to 18<sup>th</sup> December, 2010. **Completed Development of four Masters Courses for IWM on the Moodle E-Learning Platform.**

2010-E-learning workshop for Masters Programme Integrated Sanitation management held at University of Dar-es-Salaam, Tanzania from 23<sup>rd</sup> to 24<sup>th</sup> August 2010. **Organized and Moderated the Workshop and also developed ISM 608 Course Module in ISM on the Moodle E-Learning Platform.**

**2010-** E-Learning workshop for Masters Programme Integrated Watershed management held at University of Dar-es-Salaam, Tanzania from 10<sup>th</sup> to 15<sup>th</sup> April 2010. **Refined the developed MWM 708 Course Module in IWM on the Moodle E-Learning Platform.**

**2009-** E-Learning workshop for Masters Programme Integrated Watershed management held at White Sands Hotel, Dar es Salaam, Tanzania from 20<sup>th</sup> to 24<sup>th</sup> July 2009. **Developed and posted MWM 708 Course Module in IWM on the Moodle E-Learning Platform.**

**2009-** Curriculum workshop for Integrated Sanitation Management held at University of Dar es Salaam, Tanzania from 25<sup>th</sup> to 26<sup>th</sup> May 2009. **Developed a M.Sc Course on Integrated Sanitation Management to be Taught at University of Dar-es Salaam and Kenyatta University.**

**2009-** E-Learning workshop for Masters Programme Integrated Watershed management held at White Sands Hotel, Dar es Salaam, Tanzania from 24<sup>th</sup> January to 1<sup>st</sup> February 2009. **Developed and posted learning Materials on IWM in the Moodle E-Learning Platform.**

**2008-** DAAD Alumni summer school workshop on Water Demand in Participatory Watershed Management held in Meru from 17<sup>th</sup> -28<sup>th</sup> November 2008. Involved in the development of a **Water Demand Management Plan for Ngakinya WRUA for Ngaciuma-Kinyaritha Sub-Catchment.**

**2008-** Organised a workshop to review and do accreditation of the IWM Masters programme, held at Sportsman's Arms Hotel in Nanyuki between 31<sup>st</sup> August and 3<sup>rd</sup> September 2008.

**2008-** E-Learning workshop for Integrated Watershed management held at University of Dar es Salaam, Tanzania from 14<sup>th</sup> to 18<sup>th</sup> July 2008. Presented a paper titled **"Education for integrated watershed management: overview of the tools used in IWM"**.

**2008-** National Environment Conference on Conserving the Environment for Sustainable Livelihoods held at Kenyatta University from 19<sup>th</sup> to 21<sup>st</sup> May 2008. Presented a paper titled **"Perception and use of climate forecast information amongst smallholder farmers in the semi-arid areas of Kenya"**.

**2008-** Involved in organization of a workshop on Curriculum Development of Masters Programme on Integrated Watershed Management in Eastern Africa (IWMNET) held in Bagamoyo, Tanzania 19<sup>th</sup> to 27<sup>th</sup> February 2008.

**2007-** DAAD International expert seminar on Topics of Integrated Water Resource Management held in Bagamoyo, Tanzania 4<sup>th</sup> to 11<sup>th</sup> November 2007.

**2007-** Volvo Project Workshop Held at The Kenya School of Law from 5<sup>th</sup> to 6<sup>th</sup> April 2007 on Proposal to Establish a Centre of Excellence for Research and capacity Development for Transport Energy and Pollution Management in Africa. **Involved in the workshop organization and writing of the proposal.**

**2005-** German Academic Exchange Service (DAAD) in collaboration with Kenya DAAD Scholars Association (KDSA) International Conference on Re-invigorating the University Mandate in a Globalizing Environment: Challenges, Obstacles and Way Forward held at Kenyatta University, Nairobi 26<sup>th</sup> and 27<sup>th</sup> May 2005. **Chaired Theme 5 on Education, Nationalism and Student Domain.**

**2004-** Kenya ESRI supported user Group 1<sup>st</sup> Annual Conference on GIS in Conservation, Planning and Management of Resources, held on 17<sup>th</sup> and 18<sup>th</sup> November 2004, Kenyatta University, AVU Hall.

**2003-** International Conference on Quality Assurance Through Curriculum Design: A case of higher education management in East Africa, held on 9<sup>th</sup> to 11<sup>th</sup> October 2003, at Safari park Hotel, Nairobi, Kenya.

**2003-** Sixth Kenya Meteorological Society Workshop on Meteorological Research Application and Services held on 9<sup>th</sup> to 13<sup>th</sup> March 2003, Mombasa, Kenya. Presented a paper titled “**Long-term urban modification of mean annual surface temperature in Nairobi City, Kenya**”.

## PUBLICATIONS

Barasa, C.A., Shisanya, C. and **Makokha, G.L.** (2017): Constraints to forecast application for agricultural production in Bungoma Central Sub-County, Bungoma County, Kenya. **International Journal of Innovative Research and Advanced Studies (IJRAS) Volume 4 Issue 11**

Recha, C.W., **Makokha G. L.** and Shisanya, C.A. (2017): Climate variability and causes: from the perspective of the Tharaka people of eastern Kenya. **Geoscience Letters 4:22 DOI 10.1186/s40562-0117-0088-1**

Recha, C.W., **Makokha G. L.**, Shisanya, C. A. and Mukopi, M. N. (2017): Climate variability: attributes and indicators of adaptive capacity in semi-arid Tharaka Sub-County, Kenya. **Open Access Library Journal Volume 4, e3505**

Mutisya N. D. and **Makokha, G.L.** (2016): Challenges affecting adoption of e-learning in public universities in Kenya. **E-Learning and Digital Media 0(0) 1-18 DOI: 0.1177/2042753016672902. Idm.sagepub.com**

Saturday, A., **Makokha, G.L.** and Macharia, A. (2016): Performance of household water methods for microbial removal under household conditions in Kabale District, Uganda. **Journal of Environment and Health Sciences 2(2): 1-8 DOI: 10.15436/2378-6841.16.1013**

**Makokha, G.L.** and Mutisya, D. (2016): Status of e-learning in Public Universities in Kenya. **International Review of Research in Open and Distributed Learning Volume 17, Number 3**

Saturday, A., **Makokha, G.L.** and Macharia, A. (2016): Household water treatment technologies for microbial removal in Kabale District, Southwestern Uganda. **Journal of Environment and Health Sciences 2(1): 1-8 DOI: 10.15436/2378- 6841.16.804**

Kakaire, J., **Makokha, G.L.**, Mwanjololo, M., Mensa, A.K. and Menya, E. (2015): Effects of mulching on soil hydro-physical properties in Kibaale sub-catchment, south central Uganda. **Applied Ecology and Environmental Sciences, vol. 3, No. 5, 127-135. DOI: 10.12691/aees-3-5-1**

Ruhakana, A., Cush, N.L., Sirikare, S., Nyirigesa, A.J., **Makokha, L.G.** and Mambani, P. (2015): Spatial variability of water quality for rice irrigation in Rusurirwamujyinga Sub-catchment. **Bulletin of Environment, Pharmacology and Life Sciences Vol. 4 (6) pages 30-39**

Kisaka, M.O, Mucheru-Muna, M., Ngetich, F.K., Mugwe, J., Mugendi, D., Mairura, F., Shisanya, C. and **Makokha, G.L.** (2015): Potential of deterministic and geostatistical rainfall interpolation under high rainfall variability and dry spells: case of Kenya's Central Highlands. **Theoretical Applied Climatology DOI 10.1007/s00704-015-1413-2, Springer-Verlag Wien 2015**

Karanja, A.M., Shisanya, C. and **Makokha, G.** (2014): Analysis of rainfall variability on potato production in Kenya: A case of Oljoro-orok division. **Asian Journal of Applied Sciences, Vol. 02 pp 447- 456**

Karanja, A.M., Shisanya, C. and **Makokha, G.** (2014): Analysis of the key challenges facing potato farmers in Oljoro-orok division, Kenya. **Agricultural Sciences, 2014, 5, 834-838**

Recha, C.W., **Makokha G. L.**, Traore, P.S., Shisanya, C. A., Lodoun, T. and Sako, A, (2012): Determination of seasonal rainfall variability, onset and cessation in semi-arid Tharaka district, Kenya. **Theoretical and Applied Climatology** **108**: 479-494 DOI 10. 1007/s00704-011-0544-3

**Makokha, G. L.** and Shisanya, C. A, (2010): Temperature cooling and warming rates in three different built environment in Nairobi city, Kenya. **Advances in Meteorology Volume 2010, Article ID 686214, 5 pages, doi: 1155/2010/686214.**

**Makokha, G.L.** and Shisanya, C. A, (2010): Trends in Mean Annual Maximum and Minimum Near Surface Temperature in Nairobi City, Kenya. **Advances in Meteorology Volume 2010, Article ID 676041, 6 pages, doi: 1155/2010/676041.**

Recha, C. W, Shisanya, C. A, **Makokha, G. L.**, Kinuthia, R. N, (2008): Perception and use of climate forecast information amongst smallholder farmers in Semi-Arid Kenya. **Asian Journal of Applied Sciences** **1 (2): 123-135.**

Shisanya, C. A., Recha, W., **Makokha, G. L.**, Mutisya, D. N., Okolla, J. and Anyamba, A.(2005): Exploring the possibility to predict southeast Kenya normalized difference vegetation index (NDVI) using seasonal climate forecast. **European Journal of Scientific Research** **12 (1), 276-287.**

**Makokha, G. L.**, (2002): Magnitude and variations of mean comfort indices in Kenya and implications for planning of human activities. **Journal of the African Meteorological Society** **Vol. 5 No. 2, 255-262.**

**Makokha, G. L.**, (1998): Variations of the effective temperature index in Kenya. **Geojournal** **44.4, 337-343.**

**Makokha, G. L.**, (1994): Spatial, seasonal and diurnal variations of climatic comfort in Kenya. **Journal of Eastern Africa Research and Development (JEARD), Vol. 24, 183-211.**

#### PUBLISHED CONFERENCE PROCEEDINGS

Owill, B.P.O., **Makokha, G.L.** and Shisanya, C.A. (2013): Response of rice yields to the quantity of irrigation water used in Mwea Irrigation Scheme, Kenya. **Lake and Catchment Research Symposium Proceedings in CICD Series Vol. 9 Editor: Gerd Forch.**

Kaliisa, R., **Makokha, G.L.** and Tenywa, M.M. (2013): factors influencing adoption and use of soil and water conservation measures in Bufundi Sub-Catchment, Kabale District, Uganda. **Lake**

**and Catchment Research Symposium Proceedings in CICD Series Vol. 9 Editor: Gerd Forch.**

### TECHNICAL REPORTS

Mutisya, D. N. and **Makokha, G.L.** (2015): Assessment of Status, Opportunities and Challenges of e-Learning in Public Universities in Kenya. Report presented to National Commission for Science, Technology and Innovation (NACOSTI) following completion of research under grant ST & I Grants NSCT/5/003/W/90.

Maina, L., **Makokha, G.L.**, Sirera, M. and Kavivya, C. (2014): The Kenya Service Training Needs Assessment. Report presented to the Kenya Police Service following completion of a research conducted under the Institute of Peace and Security Studies, Kenyatta University.

### NETWORKING AND COLLABORATION WITH EXTERNAL ORGANISATION

2009-2013: Board Member representing Kenyatta University in the IWM project in partnership with Arba Minch University (Ethiopia), University of Siegen (Germany) and Dar es Salaam University (Tanzania). The project is funded by the European Union Water Facility in Partnership with Germany Academic Exchange (DAAD).

### LOCAL, REGIONAL & INTERNATIONAL APPOINTMENTS

#### External Examiner in Other Universities

2011-2013: Department of Humanities; external examiner, Mount Kenya University

2012-2014: Department of Educational Studies; external examiner, University of Nairobi

2012-Present: Department of Geography; external examiner, Kibabii University

2012- Present: Department of Geography and Natural Resources Management; external examiner; Maseno University

#### Being Invited to Develop Geography Curriculum and Accreditation for the National Open University of Kenya (NOUK)

23<sup>rd</sup> -25<sup>th</sup> July 2014 Invited to a workshop on finalization of accreditation documents for NOUK at Multimedia University of Kenya.

#### Appointments to Boards

June 2012-May 2013: Appointed member and chairman of Board of Governors, Ibokolo Secondary School.

October 2015-Present: Appointment member and chairman of Board of Management of Ibokolo Secondary School for a period of three years.

#### ACADEMIC LEADERSHIP

1. 2010-2013: Chairman, Curriculum Committee for Development and Accreditation of the IWM masters curriculum and for Kenyatta University, University of Dar es Salaam and Arba Minch University.
2. Have organized two workshops on Curriculum Development for masters in Integrated Watershed Management one from 18<sup>th</sup> to 23<sup>th</sup> February 2008 in Bagamoyo, Tanzania, and the second from 31<sup>st</sup> August to 3<sup>rd</sup> September in Nanyuki, Kenya.

#### COMMUNITY SERVICE

2014-Present: Chapter Secretary Universities Academic Union (UASU)

#### MEMBERSHIP OF PROFESSIONAL BODIES

Member of the International Association of Urban Climatology (IAUC)

Member of the Kenya Meteorological Society (KMS)

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