

# CURRICULUM VITAE

## 1.1 PERSONAL PROFILE

### 1.1.1 Personal Details

Name	Dr. Sammy Letema
Nationality	Kenyan
Designation	Chairman/Senior Lecturer
PF. No.	6696

### 1.1.2 Academic and Professional Qualifications

2007-2012	PhD in Environmental Infrastructure Provision, Wageningen University, Netherlands
2000-2002	Master of Environmental Planning and Management, Kenyatta University
1993-1997	Bachelor of Environmental Studies (Planning & Management), Kenyatta University
2013	Teaching Methods
2013	Publishing in Scientific Research
2015	Mwongozo Induction Programme for Board of State Corporations
2014	107 <sup>th</sup> Five Day Corporate Governance Training Course for Directors.

### 1.1.3 Employment History

2019-Date	Senior Lecturer, Department of Environmental Planning & Management, Kenyatta University
2012-2019	Lecturer, Department of Environmental Planning & Management, Kenyatta University
2005 to 2012	Tutorial Fellow, Department of Environmental Planning & Management, Kenyatta University

### 1.1.4 Major Achievements

- Graduated seven (7) PhD students and over 15 master's students
- Won a collaborative grant to support 2 postgraduate students to undertake research in Solar and energy sustainability for 2021.
- Won consultancy in 2018 for formulation of Kenya Water Towers Coordination Policy and Bill through Kenyatta University with other colleagues from various schools
- Won Vice Chancellor's Research Grant in 2015 with my two (2) other colleagues
- Published in refereed journals, book, book chapter, and conference proceeding
- Committee that established School of Architecture and Built Environment
- Committee that developed Kenyatta University Environmental Policy
- Planning Committee for the 6<sup>th</sup> ICAT Conference on Appropriate Technology, which took place on November 25<sup>th</sup> to 26<sup>th</sup> 2014 at Kenyatta University

- i) Appointments as Chairman of two State Corporations

## 1.2 RESEARCH AND PUBLICATIONS

### 1.2.1 Refereed Journal Papers

1. Kinuthia, H., Majale, C. & **Letema, S.** (2021). Influence of public policy planning on peri-urban land speculation in (Greater) Eastern Bypass in Nairobi Metropolitan. *Land Use Policy*, Volume 107, August 2021, 105515.
2. Mwangi, P.W., Karanja, F.N., Kamau, P.K. & **Letema, S.** (2021). Contribution Index of Land Cover and Land Surface Temperature Changes in Upper Hill Nairobi, Kenya. *ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, Volume V-3-2021 XXIV ISPRS Congress: 141-149.
3. Mwangi, P.W., Karanja, F.N., Kamau, P.K. & **Letema, S.** (2020). Impact of Urban Forms on 3D Built-Up Intensity Expansion Rate from Aerial Stereo-Imagery. *ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences*, Volume V-4-2020, 2020 XXIV ISPRS Congress: 203-208.
4. Koech, N.C., **Letema, S.** & Koske, J.K. (2020). Impact of Rainfall Variability on Rural Tea Roads in Kericho, Kenya. *East African Journal of Environment and Natural Resources*, 3(1), 39-48.
5. Maithya, J.K., Ming'ate, F.L.M. & **Letema, S.** (2020). A Review on Ecosystem Services and their Threats in the Conservation of Nyando Wetland, Kisumu County, Kenya. *Tanzania Journal of Science* 46(3): 711-722.
6. Ming'ate, F.L.M., **Letema, S.** & Obiero, K. (2019). Designing Institutional Arrangements for Collaborative Governance of Forests in Kenya Using a Delphi Process. *Journal of Scientific Research & Reports* 25(4): 1-11.
7. Njiru, C.W. and Letema, S. (2018). Energy Poverty and Its Implication on Standard of Living in Kirinyaga, Kenya. *Journal of Energy* Volume 2018, Article ID 3196567, 12 pages.
8. Njiru, C.W. **Letema, S.** and Maingi, S.M. (2018). Socio-Economic Factors of Small Hydropower and Biogas Plants and their Implications for Rural Energy Poverty Alleviation in Kirinyaga, Kenya. *Journal of Natural Resources and Development* 2018; 08: 101-114.
9. Kiama P.M., **Letema S.**, and Thuo M.A. (2017). Sanitation provision in use in Karengata and Ongata Rongai areas and their compliance to standards. *International Journal of Advancement in Engineering Technology, Management and Applied Science* Vol No. 05 issue 01 P154-181.
10. Mingate, F.M., **Letema, S.**, & Obiero, K. (2016). Designing a functional community forest association: a case of Mueleshi, Kakamega County, Kenya. *Asian Journal of Applied Science* Vol 04 Issue 05, October 2016.
11. Afuye, F., **Letema, S.** & Munala G. (2016). Application of Motivation in Nigeria Construction Industry: Factor Analysis Approach. *International Journal of Economics and Finance*; Vol. 8, No. 5.

12. Afuye, F., **Letema, S.** & Munala G. (2016). Impact of Motivation on Productivity of Craftsmen in Construction Firms in Lagos, Nigeria. *International Journal of Economics and Finance*; Vol. 8, No. 4.
13. **Letema, S.**, van Vliet, B. & J.B. van Lier (2014). Sanitation policy and spatial planning in urban East Africa: Diverging sanitation spaces and actor arrangements in Kampala and Kisumu. *Cities* 36 (2014) 1-9.
14. Malekpour, S., Langeveld, J., **Letema, S.**, Clemens, F. & J.B. van Lier (2013). Judgement under uncertainty; a probabilistic evaluation framework for decision-making about sanitation systems in low-income countries. *Journal of Environmental Management* 118 (2013) 106-114.
15. **Letema S.**, van Vliet B. and J.B. van Lier (2012). Satellite Sanitary Systems in Kampala. *Environmental Engineering Science*, Vol 25 (5) 291-296.
16. Gábor L. Szántó, **S. Letema**, J.T. Tukahirwa, S. Mgana, P.J.M. Oosterveer & J.C.L. van Buuren (2012). Analyzing sanitation characteristics in the urban slums of East Africa. *Water Policy* 14 (2012) 613–624.

### 1.2.2 Book

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

### 1.2.3 Book Chapter

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

#### **1.2.4 Conference Papers**

1. Njiru C.W., **Letema S.C.**, Maingi S.M., Gichohi P.M. (2014). Renewable energy policies and practices in Kenya and their contribution to appropriate technology adoption, A Conference Paper presented in the 6th International Conference on “Appropriate Technology for the 21st Century: Technological Innovation to empower Africa” hosted at Kenyatta University, Nairobi, Kenya, November 25th-29th, 2014.
2. Letema S. van Vliet B., van Buuren, J. and van Lier, J.B (2009). Small-Scale Satellite Systems as Alternative Sewerage Provisioning in Kampala City, Uganda. Decentralised Sanitation Conference, Kathmandu, Nepal, 11-13 November, 2009.
3. Letema S. van Vliet B. and van Lier J.B. (2010). Reconsidering urban sewer and treatment facilities East Africa as Interplay of material flows, sanitary networks and space demands. Sanitation Challenge: New Sanitation Concepts and Models of Governance IWA Conference, Wageningen, May 19-21, 2008.

### **1.3 QUALITY TEACHING AND LEARNING**

#### **1.3.1 Curriculum Review Committees**

- Part of the 2014 Committee that reviewed Curriculum of Department of Environmental Planning and Management
- August 2013 Appointment to Technical Committee for the Proposed School of Architecture and Spatial Planning in which we developed programmes for the school.

#### **1.3.2 Participation in Workshop/Conference**

- 2015 attended Planning Workshop on Planning under Devolved Governance in Kenya held in Kisumu Imperial Hotel. Event was organised by Kenya Institute of Planners.
- 29<sup>th</sup> April 2014. Attended National Conference on upscaling metropolitan development whose theme was ‘*Kenya on the path to metropolisation*’ at Kenya School of Monetary Studies, Nairobi, Kenya.
- Attended partly the 6<sup>th</sup> International Conference on “Appropriate Technology for the 21<sup>st</sup> Century: Technological Innovation to empower Africa” hosted at Kenyatta University, Nairobi, Kenya, November 25<sup>th</sup>-29<sup>th</sup>, 2014.
- 18<sup>th</sup> to 19<sup>th</sup> September, 2014. Workshop on PRIVIDE for Impact Launch of Urban Waste and Sanitation Network at Impala Arusha, Tanzania.

#### **1.3.3 Teaching, Examining, and Student Evaluations**

- Taught and examined units on my workload as allocated; with end of semester evaluations done by students

### 1.3.4 Student Supervision

#### *Completed PhD Supervision*

1. Joseph Maithya 85/22977/2012. Wetland Utilization and Community Perception on Payment for Environmental Services for Conservation of Nyando Basin Wetlands
2. Purity Muthoni N85/31094/2015. Environmental Sustainability in Informal Settlement Upgrading Programs in Kenyan Cities.
3. Mwangi Patricia Wanjiku N85/33297/2015. Modelling the Spatial Relationship Between Built-Up Volumes and Surface Urban Heat Island in Upper-Hill, Nairobi County, Kenya
4. Godwin Opinde N85/33509/2014 Integration of Motorcycle Transport in Selected Urban Areas and its Implication on Safety and Livelihoods.
5. Christine W. Njiru N85/20721/12. Sustainability of Small Hydro and Biogas Plants and their Contribution to Energy Poverty Alleviation in Kirinyaga County
6. Afuye Funzo N85F/24346/2013. Motivation and its Impacts on Workers' Productivity in Construction Firms in Lagos, Nigeria.
7. Lucy W. Nganga N85/20710/12. The Potential for Soil Carbon Sequestration under Different Land Management Practices in Small Holder Farms of Muranga County, Kenya.

#### *Ongoing PhD Supervision*

- 2018-Date Hannah W. Kinuthia N85/37554/2016. Peri-Urban Land Speculation and Its Implication on Land Development in Ruiru, Kiambu County, Kenya
- 2019-Date Luther K.M. Okore N85/39296/2016. Strategies for Low-Carbon Household Energy Uptake Among the Urban Poor in Western Kenya's Cities
- 2020-Date Martinien A.A. Agassin N85F/28008/2018. Dynamics of peri-urban agro-systems and their implications on soil and plant contamination at the Nairobi-Machakos County interface
- 2013-Date Philip M. Kiama N85/22657/11. Sanitation Standards and their Implications on Sanitation Provision in Karengata and Ongata Rongai Areas, Kenya

#### *Completed Masters Supervision*

- 2019 Lydia Mutie H60/CE/23036/2011. Contribution of Community Health Strategy in Safe Hygiene Practices among mothers of children less than five years old in Migwani Division of Mwingi West District, Kitui County
- 2019 Gilbert O. Aloo N50/33458/2014. Informal Waste Picking Enterprises and Their Contribution to Urban Livelihoods in Embakasi, Nairobi City County, Kenya
- 2019 Pauline T. Ogola N50/24881/2011. Human Population Growth and Its Implications on Land Resources in Migori District, Migori County
- 2017 Kimemia Linda Wambui N50/CTY/PT/23011/2013. Ecological and Socio-Economic Valuation of Manguo Wetland, Kiambu County
- 2016 Njiraini Robert Munene N50/CTY/PT/24625/2013. Common Open Spaces for Urban Poor: Planning and Management Paradox in Kibera Soweto Slum, Nairobi County.

2016	Samuel Gatheru Kanyoro N50/CTY/PT/27708/2013. Assessing Devolved Government and Development Control During Transition: A Case Study of Nanyuki Town, Laikipia County.
2015	Samuel Rono Kimeto NREM/PGE/004/12 Appropriateness of Solid Waste Management Practices in Kericho Township, Kenya
2015	Daniel M. Murithi N50/CTY/PT/26806/14 Enforcement of Development Controlled in Syokimau Residential Neighbourhood, Machakos County
2014	Polycarp N. Mogusu N50/25152/2012 Physical Characteristics and Utilization of Urban Open Spaces. A Case of Uhuru Park, Nairobi County
2014	Absolom K. Tesot N50/23458/2012 Environmental Implications of Charcoal Bussiness in Narok South Sub-County, Narok County.
2014	Philip Kimanzi Performance of Non-State actors in Provision of Water along Kiambere-Mwingi Water Supplier Pipeline in Kamuwongo division, Kitui County
2013	George O. Ochola N50/20737/2012. Urban Water Supply Divide in Migori Town, Migori County
2014	Barnabas Kipsang N50/CTY/PT/22730/2012. Peri-Urban Land Use Change and Environmental Control in Nandi Hills Town, Nandi County
2013	Linda. M. O'walukano N50/23485/2011. The Potential of Saiwa Swamp Ecosystem for Ecotourism Development

## **1.4 PROFESSIONAL/CONSULTING**

### **1.4.1 Networking and Collaboration with External Organisations**

Facilitated the following MoUs in the Department of Environmental Planning and Management:

- Kenyatta University and National Centre for Research, Ministry of Higher Education and Scientific Research, Khartoum, Sudan
- Kenyatta University and Oakar Services Ltd

Facilitated Sabbatical Leave to Kenyatta University, Department of Environmental Planning and Management, of Dr Phil Florian Stoll as part of DAAD exchange programme.

### **1.4.2 Appointment to National/Regional Boards**

- Appointment as Chairman, Kenya Forestry Research Institute in 2016
- Appointment as Chairman, National Irrigation Board in 2014
- Director, Sacco Society Regulatory Authority in 2018

### **1.4.3 Membership of Professional Bodies**

- Kenya Institute of Planners (KIP): Corporate Member (MKIP) No. 193
- Environment Institute of Kenya: Member No. 1,000,891
- National Environment Management Authority Lead Expert No. 401

## **1.5 ADMINISTRATION AND RESPONSIBILITIES**

### **1.5.1 Recognised University Administrative Positions**

2017-Date            Chairman, Department of Environmental Planning & Management

### **1.5.2 Other Responsibilities in the University**

2012-2017            Chairman, Departmental Board of Postgraduate Committee

2010-2014            Coordinator, Departmental Website

2012-2017            Advisor, First Year Masters

## **1.6 COMMUNITY ENGEEMENT AND OTHER CONTRIBUTIONS**

### **1.6.1 Attracting Research and Development Funding**

- Won consultancy services with colleagues in May 2018 for the development of a Coordination Policy and Bill on Kenya Water Towers (Tender Number KWTA/RFP NO/006/2017-2019)
- January 2016. Won Ksh 1,500,000 for 2015 Vice Chancellor Research Grant, Kenyatta University on Designing a New Territory for Institutional Arrangements for Collaborative Governance of Forests in Kenya using a Delphi Process

### **1.6.2 Community Service and Outreach**

- Chairman, BOM Koisungur Secondary School

### **1.7.3 Professional Affiliations and Portfolios**

- Chairman, Wageningen Alumni Association in Kenya

## **1.7 REFEREES**

Prof. Caleb Mireri,

Associate Professor, Department of Environmental Planning and Management,  
Kenyatta University, P.O. Box 43844 - 00100 Nairobi.

Dr Peter Kamau,

Senior Lecturer and Ag Dean School Architecture and Built Environment  
Department of Spatial Planning, Kenyatta University,  
P.O Box 43844 –00100 Nairobi.