

SUMMARY CV – SIMON MANG’ERERE. ONYWERE

TITLE & POSITION: Associate Prof. of Environmental Planning and Management, Director Capacity Development and Consultancy Services, KU	
CONTACT: Institution: Kenyatta University Postal: P.O. Box 43844, 00100 - Nairobi, KENYA. Mobile: +254-722-358814 Email: onywere.simon@ku.ac.ke ; onyweres@gmail.com Nationality: Kenyan	

ACADEMIC QUALIFICATION/TRAINING <i>(Begin with Bachelor degree, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.)</i>			
INSTITUTION & LOCATION	DEGREE <i>(if applicable)</i>	Completion MM/YYYY	FIELD OF STUDY
University of Nairobi	PhD	Dec. 1997	Geology and Remote Sensing
University of Nairobi	MSc	Dec 1992	Geology and Remote Sensing
University of Nairobi	BSc	Dec 1988	Geology
University of Cape Town, South Africa	Postgraduate Research	11 Months 1993-97	GIS & Remote Sensing
Ludwig Maximilians, University of Munich, Germany	Postgraduate Research	5 Months June-Oct 1994	Digital image processing

A. Employment History

Year (from-to)	Organization	Position held/Responsibility
August 2018 - Present	Kenyatta University	Director, Capacity Development and Consultancy Services
May 2016 – July 2018	Kenyatta University	Director, Research Dissemination and Uptake
Sept 2011 – April 2014	Kenyatta University	Deputy Director, Research Capacity Building and Dissemination, Institute of Research, Science & Technology
Nov.2012 – Present	Kenyatta University	Ass. Prof. Environmental Planning and Management
May 2001 – Oct 2012	Kenyatta University	S. Lecturer, Environmental Planning & Management
Sept 1998 – June 2001	Egerton University	Chairman, Department of Geography

B. Research Experience

i. Grants awarded (list 5 starting with most current)

Understanding the Environment, Promoting Health in Lake Baringo/Bogoria Drainages Basin Kenya; National Council of Science and Technology (NCST) 5th Call 2012/2013 - (Health, Water & Sanitation), (2013-2015) KShs. 6,000,000, PI

Community of Excellence for Research in Neglected Vector Borne Zoonotic Diseases (CERNVec); Consortium for National Health Research (CNHR), (2011-2014), KShs. 42 million, Member, KU implementation with ICIPE as Lead

Sustainable Management of Water Resources in the East African Rift Valley; Vulnerability of Groundwater to Pollution in the East African Rift Valley System in Kenya; MAWARI- French Ministry of Foreign Affairs, International Center for Training & Exchanges in the Geosciences (CIFEG); (2011-2014) EUR 128,000 Collaborator.

Use of Remote Sensing Data in Sustainable Management and Utilization of Watershed Resources in the Nzoia River, Nakivubo and Mwanza Gulf Drainage Basins Lake Victoria Research Initiative (VICRES), IUCEA and SIDA project; (2004 - 2008), USD 137,715 Lead Scientist.

Enhancing Sustainable Water Resource Management for Food Security: A Case Study of Bwathonaro Catchment; Commission for Higher Education (CHE) (2008-2009) Kshs 3,000,000, Collaborators

ii. Consultancies (max 3 most recent/relevant)

Ministry of Environment and Forestry, Kenya Water Towers Agency Tender Number: KWTA/RFP No/006/2017-2019 for THE DEVELOPMENT OF A COORDINATION POLICY AND A BILL ON KENYA WATER TOWERS (Kshs 13,500,000), Team Member

Ministry of State for Special Programmes: Service Tender No. MOSSP/15/2011-2012; *Risk Hazard Vulnerability and Capacity Assessment Mapping for Western, Nyanza, Nairobi and Central Provinces in Support of Disaster Risk Reduction*. (2012-2013), (KShs 3,024,500) Lead.

Ministry of State for Special Programmes: Service tender **PROJECT ID:00071619, Award No: 00057861 3KEN 09003**; *Risk, Hazard, Vulnerability and Capacity Assessment/Mapping for Coast, North Eastern, Eastern and Rift Valley Provinces in Support of Disaster Risk Reduction*; (2010-2011) (KShs 3,244,150), Lead.

IGAD/Regional Food Security and Risk Management Programme: Service Tender: **IGAD/REFORM/DRM/01/[02] - for Activity No. 3.8 – Promotion of Mainstreaming DRM approaches and practices into development planning within IGAD Member States**; *Regional DRM Mainstreaming Study*; (17th Jan – 3rd March 2010), EUR 17,450, Lead.

C. Publications (List 5 relevant to the project)

Joy A. Obando, **S. Onywere**, C. Shisanya, A. Ndubi, D. Masiga, Z. Irura, N. Mariita, and H. Maragia, (2016). Impact of Short-Term Flooding on Livelihoods in the Kenya Rift Valley Lakes. In M.E. Meadows, J.-C. Lin (eds.), *Geomorphology and Society*, Advances in Geographical and Environmental Sciences, DOI 10.1007/978-4-431-56000-5_12, **Pg 193-215**. Springer Japan 2016.

Susan Malaso Kotikot and **Simon M. Onywere** (2014), Application of GIS and remote sensing techniques in frost risk mapping for mitigating agricultural losses in the Aberdare ecosystem, Kenya, Geocarto International, DOI: 10.1080/10106049.2014.965758, Article: <http://dx.doi.org/10.1080/10106049.2014.965758>

Bunyasi, M. M., **S. M. Onywere** and M. K. Kigomo (2013), Sustainable Catchment Management: Assessment of Sedimentation of Masinga Reservoir and its Implication on the Dam's Hydropower Generation Capacity, International Journal of Humanities and Social Science, May 2013, **Vol. 3 No. 9, 166-179**; *Centre for Promoting Ideas, USA, www.ijhssnet.com*

Mironga, J. M., J. M. Mathooko and **S. M. Onywere** (2012), Effects of spreading patterns of water hyacinth (*Eichhornia crassipes*) on zooplankton population in Lake Naivasha, Kenya, *paper accepted for publication by the Biodiversity Journal, Taylor & Francis Publishers*.

Onywere, S. M., J. M. Mironga and I. Simiyu (2012), Use of Remote Sensing Data in Evaluating the Extent of Anthropogenic Activities and their Impact on Lake Naivasha, Kenya, *The Open Environmental Engineering Journal*, 2012, 5, 9-18, *Bentham Science Publishers* [DOI: 10.2174/1874829501205010009]

D. Honors

- In July 2018 was nominated by Esri President Jack Dangermond as a GIS Ambassador for his contribution to GIS Education in Eastern Africa.
- Named the Esri Eastern Africa GIS Champion for 2014 and Esri GIS Ambassador for Africa since July 2018
- Recognized and awarded Special Achievement in GIS (SAG-2015), Annual Esri International User Conference

E. Professional Bodies Membership (max 5)

- Member of Kenya DAAD Scholars Association (KDSA); was Chairperson in 2010 – 2015
- Member of Society for the Advancement of Science in Africa (SASA) and African Regional Director

F. Personal Statement

My research interest is on the use of GIS and Technology body of knowledge in global problem solving. I have researched and published on the subject and in applications for integrated environmental/watershed management and disaster risk management. My concern on the expansion of the use of Geospatial knowledge for teaching and research saw me spearhead the Establishment of Linkage between Kenyatta University and ESRI Eastern Africa under the 100 African Universities programme and Between Kenyatta University and Regional Centre for Mapping of Resources for development. I have also been key in the organization of Esri Eastern Africa GIS Education Users conferences for the last since 2013.