

CURRICULUM VITAE (CV) – SIMON M. ONYWERE

1.0: PERSONAL INFORMATION

First name(s)	Simon Mang'erere
Surname	ONYWERE
Position	Director, Research Dissemination and Uptake, Kenyatta University & Associate Professor, Environmental Planning and Management
Address	Department of Environmental Planning and Management School of Environmental Studies Kenyatta University P.O. Box 43844, 00100 - Nairobi, KENYA.
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E-mail	onyweres@gmail.com or onywere.simon@ku.ac.ke
Nationality	Kenyan
Date of birth	9 th December, 1962 / Emeangara Village, Masimba Division, Kisii, Kenya
Gender	Male, Married with 3 Children (Calvin, Eugene and Agnes)



1.1: SUMMARY OF SKILLS

- a) Ability to conceptualize, fully resource, and manage major research projects involving multiple partner institutions across the East African Region.
- b) Demonstrated capacity to organize large conferences, workshops, seminars and made presentations at many high-profile conferences as keynote speaker, presenter or discussant.
- c) Team player with ability to develop and nature inter-disciplinary network of collaborators to accomplish both short and long-term project goals.
- d) Demonstrated capacity in conceptualizing and writing project and research grant proposals and consequently raising funds for research projects.
- e) Experience in mentoring and examining students in academic and research.
- f) Meticulous and resilient in supporting the institutionalization of GIS and Technology body of knowledge for teaching and research.
- g) Capacity to prepare scientific papers, research reports, policy briefs and technical reviews and consequently publishing in scientific journals.
- h) Proven organizational, analytical and management acumen with administrative experience and strategic planning in research management.
- i) Proficient in computer usage including specialty applications such as GIS and Remote Sensing and other Geospatial Mapping tools
- j) Widely travelled and networked with institutions in the region

1.2: LANGUAGES

Self-assessment	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
English	Proficient	Proficient	Proficient	Proficient	Proficient
Kiswahili	Proficient	Fair	Proficient	Fair	Fair
Gusii	Proficient	Fair	Proficient	Fair	Fair

2.0: EDUCATION AND TRAINING

PhD	University of Nairobi, Nairobi, Kenya (Geology and Remote Sensing) Jan. 1993 – Dec. 1997
Title of Thesis	Onywere, S. M. (1997), "Structural Analysis of The Drainage Basin of Kenyan Rift Valley Lakes within the Aberdare Detachment Using Satellite Data, GIS and Field Observations." Ph.D Thesis, University of Nairobi. http://erepository.uonbi.ac.ke:8080/xmlui/handle/123456789/20768
Post Graduate Research	University of Cape Town, Cape Town, South Africa (Centre for Interactive Graphical Computing (CIGC)) Different periods 1993-1997 (Total 11 months)
Principal subjects	Research for PhD (GIS and Remote Sensing, Gondwana GIS)
Post Graduate Research	Ludwig Maximilians, University of Munich, Germany (Remote Sensing Working Group) June 1994 – Oct 1994
Principal Subjects	Research for PhD (Digital image processing)
MSc.	University of Nairobi, Nairobi, Kenya (Geology and Remote Sensing) Sept. 1987 - Sept. 1992
Title of Thesis	Onywere, S. M. (1990), "Application of Remote Sensing Techniques in Geological Mapping of the Nairobi-Kajiado-Machakos area." A thesis submitted in partial fulfillment of the requirements for the degree of Master of Science (Geology) in the University of Nairobi.: http://erepository.uonbi.ac.ke:8080/xmlui/handle/123456789/56780 : 1990
BSc	University of Nairobi, Nairobi, Kenya (Geology) 2 nd Class Honors. (Upper Division) Sept. 1984 - Dec. 1987
Pre-University training	National Youth Service College, Gilgil, Kenya May 1984 - August 1984
KACE -1982 KCE - 1980	Starehe Boys' Centre and School, Nairobi, Kenya 1. Kenya Advanced Certificate of Education 2. Kenya Certificate of Secondary Education Jan. 1977 - Nov. 1982
KCPE - 1976	Nyanturago Primary School, Kisii; Karura Forest Primary School, Nairobi; Embakasi Primary School, Nairobi (Kenya Certificate of Primary Education) 1971 – 1973, 1974 and 1975 – 1976 respectively

2.2: OTHER TRAINING COURSES ATTENDED

<p>25th - 27th April 2016</p>	<p>2016 DRUSSA Leadership and Benchmarking Conference and workshop, bringing together partners, Leaders and Champions from 22 participating Universities. Reudit, Mauritius, supported by Association for Commonwealth Universities (ACU) with the following objectives:</p> <ul style="list-style-type: none"> • Share knowledge and good practice on Research Uptake systems and processes developed over the DRUSSA programme • Discuss outcomes from the third and final DRUSSA Benchmarking Survey, trends identified over the last five years and compare experiences in managing Research Uptake • Address the complexities, successes and challenges involved in organizational change • Build a supportive, interactive community of knowledge amongst DRUSSA universities • Learn more about DRUSSA activities and support services to be developed and rolled-out over the next year • Engage with the DRUSSA team from the 3 partner agencies: ACU, CREST and OSD, all of whom continue to work closely with your university
<p>2nd – 4th Dec. 2015</p>	<p>Kenya Initial Rapid Assessment (KIRA) training for members of the Kenya National Disaster Risk Reduction Platform (KIRA is a multi-sector, multi-agency tool whose purpose is to provide for fast overview of a humanitarian following the 2015/2016 El-Nino Phenomenon in Kenya). 2nd – 4th December 2015, Nakuru, Kenya organized by the National Disaster Operation Centre (NDOC), Ministry of Interior and Co-ordination of National Government, Office of the President</p>
<p>17th – 20th March 2014</p>	<p>Centre for Research on Evaluation, Science and Technology (CREST) Short Courses on <i>“Introduction to Bibliometrics and Advanced Bibliometrics and Scientometrics”</i> held at Stellenbosch University, Stellenbosch, South Africa. Programme on Development Research Uptake in Sub-Saharan Africa (DRUSSA) a Twenty-four African universities partnership and collaboration between CREST, the Association for Commonwealth Universities (ACU) and Organization Systems Design (OSD) and funded by DFID, United Kingdom.</p>
<p>2014: (17th – 21st Feb.)</p>	<p><i>“Training Workshop on Geographical Information Systems (GIS) on Hydrology and Water Resource Management”</i>. Organized by the School of Engineering and Technology, Kenyatta University in collaboration with the Institute of Water Management, Hydrology and Hydraulic Engineering, University of Natural and Life Sciences (BOKU) Vienna, Austria. Supported by the Commission for Development Studies, Austria</p>
<p>2014: (6th – 7th Feb)</p>	<p><i>Results Based Management of Project Cycle training</i> organized and supported by the Community of Excellence in Neglected Vector Borne Zoonotic Diseases (CERNVec) project, ICIPE, Nairobi, Kenya.</p>

<p>2013: (30th Sept – 3rd Oct.)</p>	<p>Centre for Research on Evaluation, Science and Technology (CREST) Short Courses on “Research Evaluation and Research Impact Assessment” held at the Glenburn Conference Centre, Johannesburg, South Africa. Programme on Development Research Uptake in Sub-Saharan Africa (DRUSSA) a Twenty-four African universities partnership and collaboration between CREST, the Association for Commonwealth Universities (ACU) and Organization Systems Design (OSD) and funded by DFID, United Kingdom.</p>
<p>2015: (5th – 8th May)</p>	<p>Impact Evaluation Workshop by , May 5 – 8, 2015, Safari Park Hotel, supported by the African Population and Health Research Center (APHRC) and the World Bank</p>
<p>2010: (28th – 30th Oct.)</p>	<p>International Deans’ Course 2009/10, Part II – “Regional Workshop on Research, Quality and Strategic Management in Higher Education in East Africa” held at Kenyatta University Conference Centre (KUCC), Nairobi, Kenya. Supported by the German Academic Exchange Service (DAAD) in collaboration with Kenyatta University.</p>
<p>2009: (1st - 3rd May)</p>	<p>Workshop on Standard of Geographic Names, Regional Centre for Mapping of Resources for Development (RCMRD), Nairobi, Kenya.</p>
<p>2009: (12th – 16th Jan.)</p>	<p>UNISTAFF - University Staff Development Programme (REAL) – Regional East African Alumni- Training of Trainers Workshop on Advanced Training Skills for Improving Quality and Relevance in Teaching and Learning, Kampala, Uganda. Supported by REAL – ISOS, Universität Kassel – DAAD.</p>
<p>2008: (28th July - 1st Aug.)</p>	<p>Nile IWMNet and UNDP CapNet Course on Integrated Water Resources Management (IWRM) Planning, Dar Es Salam, Tanzania.</p>
<p>2008: (17th April – 10th May)</p>	<p>DAAD Summer School on “Rural Sanitation Management”, Gummersbach-Siegen, Germany, Supported by the German Academic Exchange Service.</p>
<p>2007: (4th - 11th Nov.)</p>	<p>DAAD Alumni Expert Seminar on “Topics of Integrated Watershed Management”, Bagamoyo, Tanzania. Supported by the German Academic Exchange Service (DAAD).</p>
<p>2007: (14th – 16th March and 2nd - 4th May)</p>	<p>Internal Quality Auditing Course on ISO 9001:2000 Internal Audit Program, and Quality Management System Development and implementation Standards by Kenya Bureau of Standards (KBS), Nairobi Kenya. Supported by Kenyatta Univ</p>
<p>2007: (26th – 30th March)</p>	<p>"Groundwater modeling and management: Field methodologies and implementation on the ATAR experimental site" CERD (Centre d'Etudes et de Recherches de Djibouti), Djibouti. Within the MAWARI PROJECT: Vulnerability of Groundwater to Pollution in the East African Rift System. Supported by French Ministry of Foreign Affairs – International Center for Training and Exchanges in the Geosciences (CIFEG).</p>
<p>2006: (1st May – 12th July)</p>	<p>University Staff Development Programme, Witzenhausen (Kassel, Germany) (UNISTAFF-2006) on Organizational Development, Quality in Teaching and Learning, and Research Management. Supported by DAAD. Wrote a practice oriented Project on <i>“Managing PhD Research in a Resources Challenged Environment.”</i></p>

2005: (12th - 24th April)	DAAD Alumni Summer School on “Topics of Integrated Watershed Management”, University of Siegen, Germany. Supported by the German Academic Exchange Service (DAAD).
2004: (27th Sept – 8th Oct)	ITC Refresher Course on Geo-informatics for Watershed Management, Makerere University, Kampala, Uganda, supported by the International Institute for Geo-information Science and Earth Observation (ITC), Netherlands.
2004: (9th June)	Workshop on Afri-Cover Datasets from end user perspective, Nairobi Kenya.
2002: (30th May – 20th June)	Remote Sensing and GIS Visualization Tools, School of Mines, University of Zambia; Organized and Sponsored by Kansas University, USA and the University of Zambia, Zambia.
2000: (27th – 28th Nov.)	Basic Course in Conflict Resolution, Facilitated by the Centre for Conflict Resolution, Egerton University, Kenya.
1999: (24th – 28th Oct.)	Training workshop on Challenges and Perspectives of Interdisciplinary Geo-Networks in East Africa, Kampala, Uganda.
1999: (3rd May - 11th June)	Ninth United Nations International Course on Remote Sensing Education for Educators, Department of Physical Geography (Remote Sensing Laboratory), Stockholm University, Sweden. (Sponsored by the United Nations Space Agency and SIDA).
1998 (14th – 16th July)	El-Nino Phenomena and Response to Farming Strategies Workshop, Egerton University, Njoro, Kenya. Supported by the Kenya Rainwater Association (KRA).
1998: (24th -26th Nov.)	Participatory Environmental Planning/Feasibility Study Workshop (Environment and Urban Development Training Project), Elburgon, Nakuru, Kenya. Supported by the Government of Netherlands in collaboration with Wageningen Agricultural University.
1996: (14th Feb) – 1997 (20th June)	GIS database design for Kenya and 3-Dimensional modeling of East Africa Rift Valley (Central Rift, Kenya) at the Centre for Interactive Graphical Computing (CIGC), Department of Geological Sciences, University of Cape Town, South Africa. (Sponsored by USHEPIA - Universities Sciences, Humanities and Engineering Partnerships in Africa).
1994: (1st June – 31st Oct.)	Digital image analysis and land cover classification of the Central Rift Valley in Kenya at AGF, Ludwig Maximilians, University of Munich, Germany (Sponsored by DAAD - The German Academic Exchange Services).
1993: (10th May - 3rd Nov.)	GIS database design for the East Africa Rift Valley (Central Rift, Kenya) and the Gondwana GIS at CIGC, Department of Geological Sciences, University of Cape Town, South Africa.(Sponsored by FRD - South Africa's Fund for Research and Development).
1993: (1st Feb. – 13th April)	Urban Information Systems for City Planning of Nairobi City, Organized by Regional Centre for Services in Surveying, Mapping and Remote Sensing (RCSSMRS) and Department of Resources Surveys and Remote Sensing (DRSRS), Nairobi, Kenya (Sponsored by DAAD – The German Academic Exchange Services for the training).

1992: (23rd Nov. - 4th Dec.)	Computer Engineering Fundamentals at the Kenya Polytechnic, Nairobi, Kenya. (Self-Sponsored).
1992: (11th - 15th Sept.)	Commonwealth Geographical Bureau Training Workshop on Applied Geomorphology in Africa, University of Nairobi, Nairobi, Kenya by the University of Manchester (Sponsored by the Commonwealth Geographical Bureau).
1988: (5th - 23rd Dec.),	Geological mapping using SPOT satellite data of Lake Bogoria - Menengai area. Sponsored by the French Technical Assistance and RCSSMRS – the Regional Centre for Services in Surveying, Mapping and Remote Sensing, Nairobi, Kenya.

2.3: COMPUTER TRAINING AND KNOWLEDGE

ArcGIS and Arcview GIS suite of modules including various extensions and use of DAK (Data Automation Kit) and other digitizing software for Geospatial mapping.

ERDAS Imagine – Leica Systems Geospatial LLC, IDRISI Kilimanjaro, ILWIS and ENVI Digital image processing and GIS software

MIKE BASIN Temporal Analyst Enterprise (MB-TAE) Hydro-Meteorological and Water Resource Information Management System (WRIMS) software by DHI

Microstation Suite of Modules, including Intergraph's Digitizing Software; Image Translator (for reading and converting image formats from various data sources e.g. AVHRR, ERS, SPOT, Landsat); Modular GIS Environment (MGE) (including Grid Analyst, Terrain Analyst, Advanced Imager, Base Imager, Raster Utilities) and MGE RIS (Relational Interface System (RIS)) to access database systems e.g. Oracle, INFORMIX, IBM, etc

3.0: FELLOWSHIPS AND SCHOLARSHIPS AWARDED

1993 -1997	German Academic Exchange (DAAD) Scholarship for PhD research at the Department of Geology, University of Nairobi.
1993	South Africa's Fund for Research and Development (FRD) Fellowship to the University of Cape Town: for the project <i>“GIS database design for the East Africa Rift Valley (Central Rift, Kenya) and the Gondwana GIS at CIGC, Department of Geological Sciences, University of Cape Town, South Africa”</i> .
1996 - 1997	Carnegie/Rockefeller Foundation Fellowship under the Universities Sciences, Humanities and Engineering Partnerships in Africa (USHEPiA): for the project <i>“GIS Database design for Kenya and 3-Dimensional modeling of the East Africa Rift Valley (Central Rift, Kenya) at the Centre for Interactive Graphical Computing (CIGC), Department of Geological Sciences, University of Cape Town, South Africa.</i>
1987 -1989	German Academic Exchange (DAAD) Scholarship for MSc. Studies at the Department of Geology, University of Nairobi.

4.0: LONG TERM EMPLOYMENT RECORD

Employer	Kenyatta University, Vice Chancellor's Office and the Division of Research Innovation and Outreach
25th May 2016 - Present	Director, Research Dissemination and Uptake, Kenyatta University
	<p>Reporting to the Vice Chancellor and working closely in consultation with Deputy Vice- Chancellor, Research, Innovation and Outreach, (RIO) and Registrar (RIO) in order to meet Divisional and University targets with the following ToRs:</p> <ul style="list-style-type: none"> • Provide advice and support in the planning of conferences, workshops and seminars by units within Kenyatta University once requests have been considered and approved by the Vice-Chancellor • Maximize knowledge transfer and the flow of intellectual property from the University's research and creative activities to business, industry, the professions and the wider community • Communicate through news releases and university website news and information about Kenyatta University research to media, business leaders, industry, legislators and other decision-makers, government agencies, University staff and the general public • Work closely with the relevant directorates to enhance university industry partnerships, innovation and commercialization activities; • Coordinate the development of a University Research, Innovation and Outreach Newsletter/ Magazine • Keep records of the Directorate's activities and forward data periodically to the Deputy Vice Chancellor (Research, Innovation and Outreach)
Employer	Kenyatta University, Vice Chancellor's Office and the Division of Research Innovation and Outreach
15th Feb. 2016 – 25th May 2016	Director, Centre Research Support and Dissemination, Kenyatta University
Main activities and responsibilities	<p>Reporting to the Vice- Chancellor and working closely in consultation with Deputy Vice- Chancellor, Research, Innovation and Outreach, (RIO) and Registrar (RIO) in order to meet Divisional and University targets with the following ToRs:</p> <ul style="list-style-type: none"> • Identify research funding opportunities and disseminate the information to members of staff and students • Create a resource centre where members of staff and students can access information on research and publications and also hold consultative meetings. • Provide support to members of staff and students while they develop their research proposals. • Identify training needs on research, proposal writing and publication for members of staff and coordinate training on the same. • Identify potential journals where members of staff can publish and disseminate this information to them. • Coordinate dissemination of research findings in the University through conferences, workshops and seminars. • Ensure that the performance contract targets related to research are met and exceeded. • Identify research funding opportunities and disseminate the information to members of staff and students

Employer	Kenyatta University, Department of Environmental Planning and Management
2nd Nov.2012 – Present	Associate Professor Environmental Planning and Management
Main activities and responsibilities	Teaching and Research in GIS and Remote Sensing for Environmental Planning and Management; Wetland Resources Management; Integrated Environmental Management; Planning for Disaster Preparedness and Management; Planning for Waste Management, Research Methodology and Project Planning. Postgraduate Students Supervision.
Employer	Kenyatta University, Institute of Research, Science and Technology
20th Sept 2011 – 2nd April 2014	Deputy Director, Research Capacity Building and Dissemination, Institute of Research, Science and Technology, Kenyatta University
Main activities and responsibilities	<p>Reporting to the Director, Institute for Research, Science and Technology (Kenyatta University) and performing any duties assigned by the Vice Chancellor the main assignments involve:</p> <ul style="list-style-type: none"> • Developing research capacity among staff and graduate students in quantitative and qualitative research methods. • Ensuring research findings from staff and students are well disseminated through publications and extension, including writing briefs to stakeholders, Government and other policy makers. • Maintaining a current record of all publications in the University. • Ensuring that all publications by Kenyatta University staff and students and grants given to staff are posted on the University website. • Writing proposals to seek funds in order to enhance research in the University. • Working with the Director of the Institute of Research Science and Technology, to develop and constantly review the University Research Policy.
Employer	Kenyatta University, Department of Environmental Planning and Management
May 2001 – Oct 2012	Senior Lecturer , Department of Environmental Planning and Management
Main activities and responsibilities	Teaching and Training in GIS and Remote Sensing for Environmental Planning and Management; Wetland Resources Management; Integrated Environmental Management; Planning for Disaster Preparedness and Management; Planning for Waste Management, Research Methodology and Project Planning. Remote Sensing in Environmental Planning and Management, and Computer Application and Geographic Information System. Postgraduate Students Supervision.
Feb 2010 – Sept 2011	Chairman , School of Environmental Studies Board of Postgraduate Studies. Chaired the School Board, evaluates the Postgraduate Students' progress reports, proposals submissions to Graduate School and vets Board of Examiners for the theses/projects reports examination and makes recommendations to Graduate School on behalf of the Dean

July 2001 – Feb. 2010	Coordinator , Department of Environmental Planning and Management Postgraduate Activities and was Chairman of the Departmental Board of Postgraduate Studies. Evaluated new students' applications and make recommendations to the Dean, organizes proposal and project presentations and represents the department at the School Board of Postgraduate studies
May 2007 – July 2009	Committee member , Kenyatta University ISO 9001:2000, ISO Auditor and ISO Representative of School of Environmental Studies
Type of sector	Institution of Higher Learning
Employer	Egerton University, Department of Geography
Sept 1998 – June 2001	Chairman, Department of Geography
Main activities and responsibilities	Departmental administrative duties and supervision of staff, Chief Departmental Examiner, Curriculum Review and Training Coordinated Departmental Postgraduate Activities, Students Supervision, and Teaching. Was involved in the development of Geography Learning Materials for the Military Science Training programme, coordinated by Egerton University.
Type of sector	Institution of Higher Learning
Employer	Egerton University, Department of Geography
June 1991 – May 2001	Lecturer, Department of Geography
Main activities and responsibilities	Teaching in Physical Geography, Geomorphology, Climatology, Hydrology, Waste Management, Natural Hazards, Aerial Photography and Remote Sensing, Research Methodology. Engaged in PhD Research at the University of Nairobi and University of Cape Town from 1993-1997 while on study leave.
Type of sector	Institution of Higher Learning
Employer	Egerton University, Department of Geography
June 1990 – June 1991	Assistant Lecturer, Department of Geography
Main activities & responsibilities	Teaching in Physical Geography, Geomorphology, Climatology, Hydrology, Aerial Photography and Remote Sensing.
Type of sector	Institution of Higher Learning
Employer	Teachers' Service Commission, Bware Secondary School, Migori

March 1990– June 1990	Untrained Teacher
Main activities & responsibilities	Teaching in Geography, Mathematics and Chemistry Mentoring of students and sports activities
Type of sector	Secondary School Education

4.1: OTHER KEY QUALIFICATIONS/EXPERIENCE

Experience developing Atlas on Env.Sensitivity 7th Sept 2015 – 16th Jan. 2016	Short Term Consultancy Services for Wild Life Fund (WWF) Kenya Country Office for the Finalisation of the Lamu Environmental Sensitivity Atlas PROJECT NUMBER – 10003514-102178 AGREEMENT NUMBER – FY16/CKP/02. A project initiated by WWF Coastal Kenya Programme, together with the National Environment Management Authority (NEMA) through the Department of Environmental Planning and Research Coordination.
Experience with Resistivity Tomography / Imaging (ERT) Oct – December 2014	Electrical Resistivity Tomography/Imaging (ERT) survey in selected sites at Bogoria \ Baringo drainage basin to assess the ground water potential and the characteristics of the aquifers for the NACOSTI project: Understanding the Environment, Promoting Health in Lake Baringo & Bogoria Drainage Basin. Generated a Report on Geophysical field survey for shallow groundwater aquifers and springs suitable for the communities in the Lake Baringo/Bogoria Drainage Basin
Experience working with Nomadic communities April – June 2010. (Kenya)	Consultancy by the Centre for Livelihoods Opportunities Unlimited and Technologies (CLOUT) for the African Wildlife Foundation (AWF) - Reducing deforestation and forest degradation on the Imbirikani Group Ranch, Oloitokitok, Kajiado District using alternative livelihood options, appropriate technologies and capacity building. Assessed complimentary activities to support technical Carbon Assessments for Carbon Trade. Assessed the threats facing lava forest in Imbirikani Ranch.
Experience in Disaster Risk Management (DRM) - 12th July - 21st August 2010 (Ethiopia)	Lead Resource Person for IGAD Regional Workshop on Community Based Disaster Risk Management (DRM) Training. Exposed 35 participants including members of Civil Society and Local NGOs involved in community work and DRM from the IGAD Region to technical approaches on Community Based Disaster Risk Management (CBDRM) Programming. Included report writing, Hawassa, Ethiopia.
Experience with Disaster Risk Management (DRM) Research Sept 2012 – March 2013 (Kenya)	Undertaking Risk, Hazard, Vulnerability and Capacity Assessment / Mapping of Four Provinces Namely: Nairobi, Central, Nyanza, Western Provinces” PROJECT REF: MOSSP/15/2011-2012 for the Ministry of State for Special Programme’s Disaster Risk Management Project:– a Consultancy Service by Kenyatta University, implemented by Simon M. Onywere (Team Leader), Joy A. Obando and Antony Ndubi.

<p>Experience with Disaster Risk Management (DRM) Research Feb 2011 – Dec 2011. (Kenya)</p>	<p>Undertook a Risk, Hazard, and Vulnerability and Capacity Assessment/Mapping in Support of Disaster Risk Reduction for Coast, North Eastern, Eastern and Rift Valley Provinces for the Ministry of State for Special Programme's Disaster Risk Management Project: PROJECT ID:00071619, AWARD NO: 00057861 3KEN 09003 – a Consultancy Service by Kenyatta University implemented by Simon M. Onywere (Team Leader), Joy A. Obando, Chris Shisanya and Antony Ndubi.</p>
<p>Feb. – Dec. 2010 (IGAD Region)</p>	<p>Undertook A Regional Disaster Risk Management (DRM) Mainstreaming Study in 5 IGAD Members States (Djibouti, Ethiopia, Kenya, Sudan and Uganda): assessed and reported on the status of DRM mainstreaming by sector ministries and other stakeholders through planning and financing - Capacities for Complementary Studies in DRM Strategies and Best Practices (A Consultancy Service by Kenyatta University implemented by Simon M. Onywere (Team Leader), Dorothy Mutisya and Alan I. C. Kirui for IGAD REFORM Programme.</p>
<p>Experience in GIS and Remote Sensing –since 1990 (Kenya)</p>	<p>Teaching and training in GIS and remote sensing applications as the main area of teaching to both undergraduate and postgraduate students (Egerton University 1990 - 2001 and Kenyatta University, 2001 - present).</p>
<p>Experience working with GIS and Remote Sensing Aug. 2008 – Dec. 2009 (Kenya)</p>	<p>Short Term Technical Assistance to Lake Victoria South (LVS) and Lake Victoria North (LVN) Catchment areas of the Water Resources Management Authority (WRMA), Kenya, on Water Resources Management Information System (WRMIS). Provided Data Entry Support, Assessed Data Quality, facilitated Acquisition of External Data Sets, Assessed Regional GIS and Permit Database. Trained on GIS skills; Mentored on GIS tasks; Supported WRMA to build regional GIS database by collecting and creating GIS layers (coverages). Trained on MIKE BASIN/Temporal Analyst and Hydrological Analysis and helped in: development of Manuals/Guidelines for specific tasks on water resources management. Mentored on data management tasks, including data migration, data checking, gap filling and use of Permit Database System and supported WRMA to build a Permit Database.</p>
<p>18th - 23rd Nov. 2008 (Kenya)</p>	<p>Organized a Regional Training workshop on "Geospatial Data Processing, Interpretation and Modelling Applied to Integrated Water Resources Management in the Eastern African Rift" Regional Centre for Mapping of Resources for Development (RCMRD), Nairobi. Within the MAWARI PROJECT: Vulnerability of Groundwater to Pollution in the East African Rift System. Supported by the French Ministry of Foreign Affairs – International Centre for Training and Exchanges in the Geosciences (CIFEG).</p>
<p>2001 (Kenya)</p>	<p>USHEPIA/CARNEGIE Small Grants Scheme – Squad 1: Establishment of a remote sensing /GIS Lab.: Geo-information Technology for Environmental Assessment at Kenyatta University, Kenya.</p>
<p>3rd May - 11th June 1999 (Sweden)</p>	<p>Participated in the Ninth United Nations International Course on Remote Sensing Education for Educators, Department of Physical Geography (Remote Sensing Laboratory), Stockholm University, Sweden. (Sponsored by the United Nations Space Agency and SIDA.</p>
<p>various periods from 1996 – 1997 (South Africa)</p>	<p>GIS database design for Kenya and 3-Dimensional modeling of East Africa Rift Valley (Central Rift, Kenya) at the Centre for Interactive Graphical Computing (CIGC), Department of Geological Sciences, University of Cape Town, South Africa. (Sponsored by USHEPIA - Universities Sciences, Humanities and Engineering Partnerships in Africa.</p>

June 1994 – Oct. 1994 (Germany)	Digital image analysis and land cover classification of the Central Rift Valley in Kenya at AGF, Ludwig Maximilians, University of Munich, Germany (Sponsored by DAAD - The German Academic Exchange Services).
May - Nov 1993 (South Africa)	GIS database design for the East Africa Rift Valley (Central Rift, Kenya) and the Gondwana GIS at CIGC, Department of Geological Sciences, University of Cape Town, South Africa.(Sponsored by FRD - South Africa's Fund for Research and Development.
Feb. – April 1993 (Kenya)	Urban Information Systems for City Planning Department of Nairobi City Council, Organized by the Regional Centre for Services in Surveying, Mapping and Remote Sensing (RCSSMRS) and the Department of Resources Surveys and Remote Sensing (DRSRS), Nairobi, Kenya (Sponsored by DAAD – The German Academic Exchange Services for the training.
GIS Data processing skills (Uganda)	ITC Refresher Course on Geo-informatics for Watershed Management Makerere University, Kampala, Uganda, supported by International Institute for Geo-information Science and Earth Observation (ITC), Netherlands.
Various period between 2004 – 2009 (East Africa)	Implemented image processing component of the Lake Victoria Research Initiative (VICRES) projects and was lead scientist in the project: <i>“Use of Remote Sensing Data in Sustainable Management and Utilization of Watershed Resources in the Nzoia River, Nakivubo and Mwanza Gulf Drainage Basins”</i> , 2004 – 2009.
Experience working with visual basic, 30th May – 29th Aug. 2002 (Zambia)	AAU/USHEPiA Research Publication Network Fellowship: Digital image analysis and GIS database design of Lake Bogoria area: Three-dimensional modeling for slope evaluation. Department of Geology, University of Zambia.
30th May – 20th June, 2002 (Zambia)	Remote Sensing and GIS Visualization Tools, School of Mines, University of Zambia; Organized and Sponsored by Kansas University, USA and the University of Zambia, Zambia.
Experience in Hydrological analysis and Water Resources Management August 2012 – Dec. 2012 (Kenya)	<p>Strengthening Capacity to Combat Drought and Famine in the Horn of Africa: Tapping Groundwater Resources for emergency water supply.</p> <ul style="list-style-type: none"> Implementing the activity; Building Institutional and Technical Capacities In Research, Assessment and Management of Groundwater Resources in drought prone areas, UNESCO and Kenya Water Institute (KEWI)
Experience in Hydrological analysis and Water Resources Management 8th May – 20th June 2009 (Kenya)	Coordinated Catchment Capacity Building and Planning Training of the Lake Victoria North (LVN) Water Catchment Area community, Western Kenya – Trained the Lower Sosiani Water Resources Users Association (LSWRUA) and the LVN Water Resources Management Authority (WRMA) staff on Participatory Development of Micro-Catchment Action Plans (MCAP). As an output from the training, produced Training of Trainers (TOT) Manual.
June 2009- August 2009 (Kenya)	Reviewed and re-developed 6 Micro-Catchment Management Action Plans (MCMAPs) within the Lake Victoria North Catchment area of WRMA, Western Kenya after rapid field evaluation of the micro-catchments of concern with the community.

- i. Moiben River Basin - Moiben River Catchment Protection and Management Association (MRCPMA).
- ii. Cheplelachbei River - Cheplelachbei Water Resource Users Association (CHWRUA).
- iii. Maragoli Hills – Maragoli Hills Natural Resources Users Association (MHNRUA).
- iv. Khalaba River – Khalaba Water Resource Users Association (KHWRUA).
- v. Kuywa River – Kuywa Water Resource Users Association (KUWRUA) and managing Kuywa A, Kuywa B, and Kuywa C micro-catchments.
- vi. Upper Sosiani River – Upper Sosiani Water Resource Users Association (USWRUA) and managing Ellegirini River, Endoroto_Chepkero drainage and Kipsinende River.

**26th – 30th March
2007 (Djibouti)**

"Groundwater modeling and management: Field methodologies and implementation on the ATAR experimental site" CERD (Centre d'Etudes et de Recherches de Djibouti), Djibouti. Within the MAWARI PROJECT: Vulnerability of Groundwater to Pollution in the East African Rift System. Supported by French Ministry of Foreign Affairs – International Center for Training and Exchanges in the Geosciences (CIFEG).

**28th July – 1st
August 2008
(Tanzania)**

Was a resource person for Integrated Watershed Management (IWM) Planning training for managers, practitioners and trainers. Understanding IWM planning processes and its role in sustainable management of water resources and capacity building actions using Wami/Ruvu Basin as a field site. Organized and hosted by the University of Dar es Salaam in conjunction with Nile IWRM-Net, Cap-Net (www.cap-net.org) and University of Siegen Project "Capacity Building for Integrated Watershed Management in Eastern Africa (IWMNET)", Bagamoyo, Tanzania.

**17th – 30th July,
2006
(Kenya) and**

DAAD Summer School 2006 training: Development of a Participatory Watershed Management Plan for Bwathonaro Watershed, Tana River Basin, Meru, Kenya under the GTZ – Water Sector Reform Programme/Water Resources Management Authority, for Bwathonaro Water Resources User Association.

March/April 2007

Developed Documentation of Best Practices in Bwathonaro Sub-Catchment

**March 2005 – May
2008 (Djibouti,
Ethiopia and
Kenya)**

MAWARI PROJECT - French Ministry of Foreign Affairs – International Center for Training and Exchanges in the Geosciences (CIFEG): 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, A joint project activity with Djibouti, Ethiopia and Kenya – Collaborators in Kenya: University of Nairobi, Kenyatta University, National Soils Laboratory, Regional Centre for Mapping of Resources for Development and Ministry of Water and Irrigation.

**2004 – 2010
(Kenya, Uganda
and Tanzania)**

Lake Victoria research Initiative (VICRES) research project entitled, "Use of Remote Sensing Data in Sustainable Management and Utilization of Watershed Resources in the Lake Victoria Drainage Basins" supported by the Inter University Council of East Africa Collaborators: Kenyatta University, Kyambogo University, Makerere University and University of Dar es Salaam.

Exposure to work relevant to the Water Sector & Environmental Management (Kenya)	Commission for Higher Education (CHE) funded Research on the project: “Enhancing Sustainable Water Resource Management for Food Security: A Case Study of Bwathonaro Catchment”, 2008 – 2010.
2006 – 2010 (East Africa Countries)	Team leader (15 projects) for the “Pollution/Heavy Metals Cluster Projects” of the Lake Victoria Research (VICRES) Initiative Projects on Integrated risk assessment and management of pollution in Lake Victoria Drainage Basin. Managed by the Inter University Council of East Africa (IUCEA) and funded by SIDA/SAREC.
August 2008 (Kenya – Nile IWM-Net evaluation)	Invited by the International Network for Capacity Building in Integrated Water Resources Management (CAPNET), a project managed by UNDP and funded by the Dutch Government and UNDP as an Internal Evaluator (Local Peer Reviewer) for Nile IWRM-Net Country Coordinators’ Planning Meeting and Opportunity Assessment for Capacity Building for IWRM in the River Nile Countries, Nairobi, Kenya.
July 2007 (Kenya)	Evaluated the Kisumu Integrated Sustainable Waste Management Project (KISWAMP) on the GIS and SWM component to update Baseline Information with the following activities: Mapped the geographic area(s) using GIS at city and ward levels, mapped existing and potential landfills, mapped SWM supporting infrastructure, zoning of waste sources/types, collection points, wards, located waste buying centres and waste recycling industries.
March 2005 (Kenya)	Member of the Task Force for the Preparation of Mainstreaming of the National Action Programme to Combat Desertification into the National Development Framework. Prepared the Kenya Country Inception Report that was presented to the UNCCD Secretariat.
2003 (Kenya)	African Institute for Capacity Development (AICAD) Award, for the research project entitled “Integrated Water Resources Management Systems for Makueni District.

5.0 : ADMINISTRATIVE RESPONSIBILITIES

June 2015 - Present	<p>Appointed by the Vice Chancellor, Kenyatta University, to Chair a 10 member committee to develop a degree curriculum in GIS and Remote Sensing for Kenyatta University</p> <p>Also spearheading ESTABLISHMENT OF KENYATTA UNIVERSITY GIS & REMOTE SENSING CENTRE AND LABORATORY</p>
May 2013 - June 2014	<p>Represented Kenyatta University in the ESTABLISHMENT OF A GLOBAL PROBLEM SOLVING CONSORTIUM (GPS) and development of a Consortium Memorandum of Understanding (“MOU”), among 8 Institutions:</p> <p>Represented Kenyatta University in the ESTABLISHMENT OF A GLOBAL PROBLEM SOLVING CONSORTIUM (GPS) and development of a Consortium Memorandum of Understanding (“MOU”), among 8 Institutions:</p> <ol style="list-style-type: none"> 1 George Mason University, in Fairfax, Virginia, U.S.A.; 2 Istanbul Sehir University, in Istanbul, Turkey; 3 Kenyatta University, in Nairobi, Kenya;

- 4 National Research University Higher School of Economics, in Moscow, Russia;
- 5 Tsinghua University, in Beijing, People's Republic of China;
- 6 University of Brasília, in Distrito Federo, Brazil;
- 7 University of Delhi, in New Delhi, India;
- 8 Yonsei University, in Seoul, Republic of Korea.

With the main goals of:

- a) Create mechanisms such as minors or other academic programs that support students' direct experience with at least one partner university and enable them learn how to see a global problem from a different cultural or national perspective.
- b) Establish team-taught courses, including but not limited to using globally-networked learning.
- c) Initiate a short-term faculty exchange program among the partner institutions that will promote collaborative teaching and other collaborative activities.
- d) Explore future collaboration in research, grant-writing, and other initiatives

<p>Feb. 2012 – Present</p>	<p>Chairman of the Vice Chancellor's Committee that Spearheaded development of MEMORANDUM OF UNDERSTANDING BETWEEN KENYATTA UNIVERSITY AND ESRI EASTERN AFRICA that drew benefit from Esri 100 Africa Universities Programme with award of ArcGIS Enterprise Licence in May 2013 and with the following main objectives: Also implementing the MoU</p> <ul style="list-style-type: none"> • To make available, campus-wide, Geospatial tools for teaching and research at Kenyatta University • To use GIS to nurture spatial thinking and as a key technology to help staff and students develop analytical and problem solving skills; • To use GIS to provide staff and students with tools to develop a better understanding of the world's resources and challenges;
<p>Sept 2011 - Present</p>	<ul style="list-style-type: none"> • To use GIS knowledge to promote geospatial education, training and research in developing countries in general and in Eastern Africa in particular <p>Appointed member of Kenyatta University Research Review and Advisory Board (URRAB) renamed University Research Advisory Board (URAB) since 29th Nov 2013. Among the terms of Reference for the board are:</p> <ul style="list-style-type: none"> • Administration of the University Research fund • Ensuring adherence to & implementation of University Research Policy • Ensuring capacity building in research in the University • Raising funds to advance Research and Innovation • Putting in place appropriate mechanisms to ensure improvement of University rating based on research indicators
<p>Sept 2011 - Present</p>	<p>Secretary of 7 Member Committee on Kenyatta University Full Professors' Inaugural Lectures and High Profile Public Lectures</p> <p>Chairperson of 8 Member Committee on Development of Kenyatta University Research and Industrial Park</p> <p>Member of 5 Member Committee on improvement of Webometric Ranking of Kenyatta University. The committee spearheads improvement of University Ranking and facilitate dissemination of research information through the KU website: www.ku.ac.ke</p>

Sept. 2011 - Present

Appointment to various short-term Committee by the Vice Chancellor, among them:

- Appointed to a committee to develop a proposal on the design and development models of the GIS-Based National Land Information Management Systems (NLIMS) - 3rd March 2014
- Appointed to a committee to review the project component of Masters programmes being offered at Kenyatta University partly by Projects – 1st Nov 2013
- Appointed to a committee to develop a partnership with KEPISA on the Establishment of a Climate Business information Centre – 30th Oct, 2013
- Member of the Committee on evaluation of the Nation Newspapers Entries for “THE NEXT BIG THING COMPETITION” 1st and second covers of participants

Aug. 2011 – Oct 2011

Appointed member of the Senate Adhoc committee to harmonize and rationalize Kenyatta University common/shared courses.

April 2011 – Nov. 2011

Appointed by the Vice Chancellor, to represent Kenyatta University in the International Selection Committee that reviewed submitted abstracts for the International Association of Universities (IAU) - IAU 2011 International Conference, on Strategies for securing Equity in Access and Success in Higher Education Kenyatta University, 16-18 November 2011, Nairobi, Kenya.

May 2011 – Oct 2011:

Appointed member of the committee for Rapid Results Initiative (RRI) 2nd wave of Kenyatta University for the Thematic area: **To Process Thesis**

18th Feb.2011 – 20th June 2012

Chairman of the Vice Chancellor’s Committee that Spearheaded the development on a Memorandum of Understanding (MoU) and eventual collaboration Between Kenyatta University and Kenya Wildlife Services (KWS) with the following main objectives:

- To jointly develop mutual collaboration in Joint research, Training and industrial attachment including joint supervision of students in areas of mutual interest
- To build capacity through exchange programmes and short courses and exchange information and research documentation
- Participate in jointly organized seminars, workshops and conferences including participation with other collaborators in relevant areas for resource mobilization;

May – August 2010

Appointed Member of the Vice Chancellor’s Committee that Spearheaded (i) UNESCO Category II Centre and (ii) Waste Water Treatment Proposal for Kenyatta University.

Feb 2010 - Present

Invited as a mentor for the next generation of Academics at Kenyatta University.

Dec. 2009

Appointed Committee member to develop a curriculum for the Center of Excellence in Marine Sciences, Department of Zoological Sciences, School of Pure and Applied Sciences, Kenyatta University.

June – Nov 2005

Chairman of the Vice Chancellor’s Committee that Spearheaded the development on a Memorandum of Understanding (MoU) and eventual collaboration Between Kenyatta University and the Regional Centre for Mapping of Resources for Development with the following main objectives:

	<ul style="list-style-type: none"> • Development and implementation of problem solving applications of geo-spatial data in natural resources development and environmental management for the Eastern and South African sub-region; • Capacity building in geo-spatial data base development and information technology for surveying, mapping and natural resources assessment and management; • Training, scientific research and consultancy
April 2002 – Sept 2009:	Member of the Faculty/School Board of Postgraduate Studies committee, Faculty of Environmental Studies (April 2002 - July 2004); School of Environmental Studies and Applied Human Sciences (July 2004 – July 2006) and School of Environmental Studies (July 2006 to Sept 2009). Considered the progress of postgraduate students in the faculty/school, reviews postgraduate proposals and recommends on the examiners of various Theses and project reports and makes recommendations to Graduate School.
May 2007 – 2009	Member of the Vice Chancellor's ISO Committee for the School of Environmental Studies and Human Sciences and University ISO Committee. Participated in preparation of KU ISO procedures and Kenyatta University Quality Manual with ISO Procedures and Quality Assurance Mechanisms for recognizing and monitoring performance to enhance operational efficiency; member of Internal ISO Standards Compliance Auditing Team.
April 2002 – Nov. 2009	Committee Member, Departmental Appraisal and Promotions Committee (APC) (Chairman of the appraisal committee), evaluation of new applications to the Department and made recommendation to the Chairman on their suitability for appointment to the Department.
June 2002 – 2009	Committee Member of the Departmental Strategic Planning Committee (Secretary to the committee) – overall planning and development of the department, making strategic plans for the Department, review of academic and physical development of the Department, recommendations on departmental budgetary estimates.
Nov. 2002 – March 2006	Member Departmental Exhibitions Committee (Chairman to the committee), preparation of exhibition materials and brochure of the department. Representation at the University exhibitions to the exhibitions organized by the Commission of Higher Education.

6.0 PUBLICATIONS - REFEREED JOURNAL ARTICLES

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.

Mironga, J. M., J. M. Mathooko and **S. M. Onywere** (2012), Effect of water hyacinth infestation on the physicochemical characteristics of Lake Naivasha, *International Journal of Humanities and Social Science*, April 2012, **Vol. 2 No. 7**, 103-113. Centre for Promoting Ideas, USA, www.ijhssnet.com
http://www.ijhssnet.com/journals/Vol_2_No_7_April_2012/11.pdf

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]

Mironga, J.M., J.M. Mathooko, **S.M. Onywere** (2011), The Effect of Water Hyacinth (*Eichhornia Crassipes*) Infestation on Phytoplankton Productivity in Lake Naivasha and the Status of Control, *Journal of Environmental Science and Engineering*, October 2011, **5(10)** 1252-1260, October 2011, David Publishing.

Twesigye, C. K., **S. M. Onywere**, Z. M. Getenga, S. S. Mwakalila, and J. K. Nakiranda (2011), The Impact of Land Use Activities on Vegetation Cover and Water Quality in the Lake Victoria Watershed, *The Open Environmental Engineering Journal*, 2011, **4**, 66-77, Bentham Science Publishers [DOI: 10.2174/1874829501104010066].
<http://www.benthamscience.com/open/toenviej/articles/V004/66TOENVIEJ.pdf>

Onywere, S. M., Z. M. Getenga, S. S. Mwakalila, C. K. Twesigye, J. K. Nakiranda (2011), Assessing the Challenge of Settlement in Budalangi and Yala Swamp Area in Western Kenya Using Landsat Satellite Imagery, *The Open Environmental Engineering Journal*, 2011, **4**, 97-104, Bentham Science Publishers [DOI: 10.2174/1874829501104010097].

Twesigye C.K, **S. Onywere**, Z. Getenga, S. Mwakalila and J. Nakiranda (2007), The Potential of Satellite Imagery and Policy Framework in Addressing Sustainable Management of Watershed Resources in the Lake Victoria Basin. *The Uganda Journal*, **51**, 74- 85.

Onywere, S. M., Z. M. Getenga., W. Baraza, S. S. Mwakalila, C. K. Twesigye, and J. Nakiranda, (2007), Intensification of Agriculture as the Driving Force in the Degradation of Nzoia River Basin: the Challenges of Watershed Management. *Publication of the Lake Abaya Research Symposium 2007 (LARS 2007) on Catchment and Lakes Research*. FWU Water Resources Publications Vol.6, 2007 <http://www.uni-siegen.de/fb10/fwu/ww/publikationen/volume0607/index.html>.

Förch Gerd, **S. M. Onywere**, R. Winnege, and C. Shisanya (2005), Results of the DAAD Alumni Summer School on Topics of Integrated Watershed Management at University of Siegen. http://fwu.fb10.uni-siegen.de/bkd/FWU_WRP.htm - Water Resources Publications Vol. **3**, 203-223 2005 and University of Siegen, series WIS ISBN No. 3-932604-18-0.

Onywere, S. M., (2005), Morphological Structure and the Anthropogenic Dynamics in the Lake Naivasha Drainage Basin and its Implications to Water Flows. http://fwu.fb10.uni-siegen.de/bkd/FWU_WRP.htm - Water Resources Publications Vol. **3**, 141-160 2005 and University of Siegen, series WIS ISBN No. 3-932604-18-0. <http://www.uni-siegen.de/zew/publikationen/volume0305/onywere.pdf>

Onywere, S. M., N. K. Opiyo, S. J. Gaciri and M. J. de Wit (2000), A Methodology for Image Analysis and Land Cover Classification of Nakuru- Menengai Area (Central Rift Valley, Kenya), *African Journal of Science and Technology*, **Vol 1. No 1** UNESCO January 2000 pp 56-68.

6.1 PAPERS IN CONFERENCE PROCEEDINGS

Simon Onywere, Victor Okoth, and Ben Mwangi (2016) Voi Flooding and Soil Erosion Risk Vulnerability Mapping. International Conference on Flood Risk & Urban Planning 1-4th June 2016, Taita Taveta University College

Wachiuri, Nancy and **Simon Onywere** (2015), An Investigation of Forest Fire Risk and Fire Severity, using Geospatial Information Systems and Remote Sensing, A Case Study of Aberdare Forest. 3rd Esri Eastern Africa Education GIS Conference held at Jomo Kenyatta University of Agriculture and Technology (JKUAT) 9-11th September, 2015 on the theme GIS Creating the Future. <http://www.esriea.co.ke/educ2015-proceedings/>

Simon Onywere (2015), Kenyatta University - A Lighthouse of Geospatial Knowledge in Sub-Saharan Africa -KU Shines the Torch of GIS. 3rd Esri Eastern Africa Education GIS Conference held at Jomo Kenyatta University of Agriculture and Technology (JKUAT) 9-11th September, 2015 on the theme GIS Creating the Future. <http://www.esriea.co.ke/educ2015-proceedings/>

John Nyangena, **Simon Onywere** and Chris Shisanya (2015), Assessing the Impacts of Drought in Kenya's Savannah Rangelands of Imbirikani Area, Kajiado County. 3rd Esri Eastern Africa Education GIS Conference held at Jomo Kenyatta University of Agriculture and Technology (JKUAT) 9-11th September, 2015 on the theme GIS Creating the Future. <http://www.esriea.co.ke/educ2015-proceedings/>

Caroline Akoth and **Simon M. Onywere** 2015, Using GIS to Map and Analyze Urban Flooding Challenges in Ruiru Sub-county, Kiambu County. 3rd Esri Eastern Africa Education GIS Conference held at Jomo Kenyatta University of Agriculture and Technology (JKUAT) 9-11th September, 2015 on the theme GIS Creating the Future. <http://www.esriea.co.ke/educ2015-proceedings/>

Maina P. M., S. Ochola and **S. Onywere** (2015), GIS- Based Flood Risk Mapping for Kilifi county, Kenya, 3rd Esri Eastern Africa Education GIS Conference held at Jomo Kenyatta University of Agriculture and Technology (JKUAT) 9-11th September, 2015 on the theme GIS Creating the Future. <http://www.esriea.co.ke/educ2015-proceedings/>

Onywere, Simon M (2015) Imparting spatial thinking to university community: Kenyatta University experience in the use of ESRI campus-wide site license. Proceedings of the conference on *Expanding Theoretical and Applied Roles of GIS in a Dynamic Global Environment* held at Masinde Muliro University of Science and Technology, Kakamega, Kenya, 13-14 August 2015

Caroline A Otiwa & **Simon M Onywere** (2015) Using GIS to map and analyze urban flooding challenges in Ruiru sub-county, Kiambu County. Proceedings of the conference on *Expanding Theoretical and Applied Roles of GIS in a Dynamic Global Environment* held at Masinde Muliro University of Science and Technology, Kakamega, Kenya, 13-14 August 2015

Kelvin Mwenda and **Simon Onywere** (2014) Application of GIS to Hospital Management, Patient Care and Patient Flow Systems. 2nd Esri Eastern Africa Education User Conference held at University of Dar es Salaam, Tanzania 20 - 21 November, 2014 on the theme GIS for everyone <http://www.esriea.co.ke/educ-proceedings/>

Ikawa, Joseph Victor Otieno, Caleb Mireri, **Simon Onywere** and Paul Aloyo (2013). The Development and Usage of Recreational Parks in Nairobi-Kenya; SABS Conference 2013 - Promoting Sustainable Built Environment: Architecture, Environment, Technology and Society in the Global South – 10-12 October 2013 Nairobi, Kenya

Onywere, Simon M (2013), Esri's 100 African Universities Program: Experience of Kenyatta University. 1st Esri Eastern Africa Education GIS Conference (Theme: Learning more and more about Geo-spatial Technologies) held at Kenyatta University 17th – 18th September, 2013
<http://www.esri.co.ke/seminars/educ-proceedings/>

Wambugu, J.M. and **S.M. Onywere** (2011), Land-Use Dynamics as Drivers of Degenerating Community-Based Forest Management Systems in the Kenyan Coast, *proceedings of the International Conference on Applied Geoinformatics for Society and Environment AGSE-2011*, 163-170, ISBN 973-3-943321-00-5 Publications of AGSE Karlsruhe, Germany on the theme Environmental Issues and Sustainable Development, Jomo Kenyatta University of Agriculture and Technology, August 15-19, 2011, Kenya.
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Onywere, S. M. (2007), Total Quality Management: A Basis for ISO Certification for Higher Education Institutions in Kenya. *Proceedings of 2nd International Conference on Quality Assurance in Higher Education*, 29th Oct. – 2nd 2007, Lilongwe, Malawi, p151-159.

Twesigye, C. K., **S.M. Onywere**, J. K. Nakiranda, Z. M. Getenga and S. S. Mwakalila (2007), Integrated Management Options for Sustainable Development of the Nakivubo Wetland Complex, Kampala. *Proceedings of the Kenya DAAD Scholars Association (KDSA) Regional Conference on the Principle of Sustainability - An interdisciplinary View* 30th Nov. – 1st Dec. 2006, Nairobi, Kenya p113-123.

Twesigye, C. K., **S. Onywere**, Z. Getenga, S. Mwakalila and J. Nakiranda (2006), Environmental Degradation Crisis in the Lake Victoria Basin Watershed: Evidence From Satellite Imagery and Geographical Information Systems (GIS) Analysis. *Proceedings of the Nile Basin Development Forum (NBDF)*, Addis Ababa, Ethiopia, 30th Nov. – 2nd Dec. 2006 pp 138-155.

Onywere, S. M. (2006), A strategy for Managing PhD Research in a Resource Challenged Environment at Kenyatta University. *Proceedings of Regional Eastern Africa UNISTAFF Alumni Network (REAL) First International conference on Quality Assurance in Higher Education: Networking for Quality Higher Education, 6th – 10th November 2006, Kenyatta University, Nairobi, Kenya, p166-175.*

Twesigye, C. K., **S. Onywere**, Z. Getenga, S. Mwakalila and J. Nakiranda (2006), The Impact of Forest Policy, Land use Systems and Climate Change on Forest Cover Dynamics in the Lake Victoria Basin. *Proceedings of 2006 JKUAT Scientific, Technological and Industrialization Conference, 26th – 27th October 2006, Nairobi, Kenya, pp 581-599, ISBN 9966-923-28-4.*

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Förch Gerd, **S. M. Onywere**, R. Winnege, and C. Shisanya, *et al.* (2005), Results of the DAAD Alumni Summer School on Topics of Integrated Watershed Management at University of Siegen. *Paper presented during Kenya DAAD Scholars Association Conference on "Re-invigorating the University Mandate in a Globalizing Environment: Challenges, Obstacles and Way Forward", 26th – 27th May 2005, Nairobi, Kenya, p291-311.*

Onywere, S. M. (2005), The Status of Disaster Management in Kenya: the Need for Training Programmes. *Proceedings of the United Nations University Programme on Disaster Risk Information Management: University Network for Disaster Risk Reduction in Africa Workshop with emphasis on the use of Geoinformation and Capacity Building. Makerere University, Kampala. 11th – 13th Sept. 2005 and (4.1 MB) Paper (396 kB), www.itc.nl/unu/dgim/unedra/workshop.asp.*

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Onywere, S. M., S. J. Gaciri and N. K. Opiyo (1996), Image Analysis and Land Cover Classification of Nakuru-Menengai area: Raster GIS of the Central Kenyan Rift Valley. *Proceedings of the Eleventh Thematic Conference on Applied Geologic Remote Sensing, 27th – 29th February, 1996, Las Vegas, Nevada. Vol. II pp 609-619.*

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Onywere, S. M. and S. J. Gaciri (1993), Application of satellite remote sensing techniques in land use and land cover pattern analysis of the Nakuru-Nyahururu area, *Proceedings of the 1993 International Geoscience and Remote Sensing Symposium (IGARSS'93): Better Understanding of the Earth Environment, 18th – 20th August, 1993, Kogakuin University, Tokyo, Japan.*

Onywere, S. M. (1992), Lineament delineation in the drainage basin of the lakes Bogoria, Nakuru, Elmenteita and Naivasha from satellite data: Geomorphological implications of improper land use. *Proceedings of the Commonwealth Geographical Bureau Workshop on Applied Geomorphology in Africa, 11th – 19th Sept., 1992, Nairobi, Kenya.*

Onywere, S. M. (1987), Energy and Geology with Emphasis on Kenya, in *Nairobi University Geology Students Association (NUGSA) Magazine.*

6.2 BOOKS AND CHAPTERS IN BOOKS

Onywere, S. M. (2005), Digital Image Analysis and GIS Data Base Design of Lake Bogoria Area, Kenya: Three Dimensional Modeling for Slope Evaluation, in "Sustainable Management of Headwater Resources: Research from Africa and India" Edited by Libor Jansky, Martin J. Haigh, and Haushila Prasad, Library of Congress, pp 235-248, ISBN No. 92-808-1108-8.

Murithi, Joyce; **Simon Onywere** and Wilson Nyaoro (2012), Disaster Preparedness and Management in Kenya: Community Vulnerability to landslide disasters in Giumpu, Meru County. LAP LAMBERT Academic Publishing (October 1, 2012) 100p ISBN-13: 978-3659245879

Contribution from VICRES: (2009) Handbook of Research on Hydroinformatics: Technologies, Theory and Applications. edited by Tagelsir Mohamed Gasmelseid, King Faisal University, Saudi Arabia ISBN 978-1-61520-907-1 copyright (C) 2011 IGI -Global Information Resources Management Association, USA; Information Science Reference Hershey, New York

7.0: CONFERENCES/SEMINARS/WORKSHOPS

7.1: INTERNATIONAL CONFERENCES/SEMINARS WITH PAPER PRESENTATIONS

Susan Malaso Kotikot and **Simon Onywere (2013)**, Application of GIS and Remote Sensing to Frost Risk Mapping for Improved Agricultural Productivity in the Aberdare Region, Kenya. *A paper presented during NASA SERVIR's My Community Our Earth (MYCOE / Servir) Global Programme: Capstone Event for selected Fellows, Washington, DC and Tampa Florida 1-14 April 2014.* Funded by NASA through USAID and facilitated by Association of American Geographers (AAG)

Onywere, S. M., C. A. Shisanya, J. A. Obando, A. O. Ndubi, D. Masiga, Z. Irura, N. Mariita and H. O. Maragia (2013), Geospatial Extent of 2011-2013 Flooding from the Eastern African Rift Valley Lakes in Kenya and its Implication on the Ecosystems. *A Paper presented during the Kenya Soda Lakes workshop held from 4th to 7th December 2013, Kenya Wildlife Service (KWS) Training Institute, Naivasha, Kenya, organized by Kenya Wildlife Service, Taita Taveta University College, National Commission of Science Technology and Innovation, National Environment Management Authority and the University of Nairobi, Ghent University, Belgium, Royal Belgium Institute of Natural Sciences and the Deutscher Akademischer Austauschdienst (DAAD).*

Onywere, S. M., C. A. Shisanya, J. A. Obando, A. O. Ndubi, D. Masiga, Z. Irura, N. Mariita and H. O. Maragia (2013), Environmental considerations in Scientific Research: Rift Valley Lakes-Level Rise & Flood Challenges, paper presented during the Annual Alumni Conference of the DAAD Alumni Association Sudan in Wad Medani, Sudan 28th November 2013.

Onywere, S. M. and A. I. C Kirui Status of Implementation of Geospatial Technology in Kenyan Institutions of Higher learning, 7th ESRI Eastern Africa User Conference on the theme "Experience Geopower in the East African Rift" 3-5th Oct. 2012, Naivasha, Kenya.

Bunyasi, M. M. and **S. M. Onywere** (2012), Assessment of Sedimentation in Masinga Reservoir and its implications on the Capacity of the dam for Hydropower Generation. *A paper presented during the Alexander von Humboldt foundation (AvH)/DAAD/NCST Conference on the theme "The Future of Biodiversity Research in Africa: Scope, Opportunities, Collaboration, Access and Sharing Benefits". 17th to 20th July 2012, Taita Taveta University College, Sarova Taita Hills Lodge, Kenya.*

Mugenda, O. M., **S. M. Onywere** and C. A. Shisanya (2012), Education without Borders: The Experience of Kenyatta University. *Paper presented during the Global Problem Solving Planning Conference and Consortium, 23rd -24th March 2012, George Mason University, USA*

Onywere, S. M. (2011), Vulnerability of Groundwater to Pollution in the Lake Nakuru Basin: Tracing the Pollution Hotspots using Satellite Imagery and GIS. *A paper presented during the LARS-2011 - Lake and Catchment Research Symposium on Water, Sanitation and Energy for Sustainable Livelihoods, 14th – 18th March 2011 Nairobi, Book of Abstracts p93-94.*

Onywere, S. M., D. Mutisya and A. I. C Kirui (2010), Disaster Risk Management Mainstreaming in the IGAD Region: Status, Gaps and Challenges. *A Research Report presentation to the Regular Advisory Technical Committee of the IGAD REFORM Programme, 7th – 8th Dec. 2010, Djibouti Vile, Djibouti.*

Kiura, M. K. and **S. M. Onywere** (2010), The Effects of Forest Loss on Precipitation in the Upper Catchment of Ewaso Ngiro South River, Kenya. *A paper presented during the Humboldt Alumni Association Conference, 24th - 26th Nov. 2010, Nairobi Kenya.*

Onywere S. M., Z. M. Getenga, S. S. Mwakalila, C. K. Twesigye and J. K. Nakiranda (2010), The Challenge of Settlement in the Budalangi Area of Nzoia River Drainage Basin: Policy Change Perspective and Using Remote Sensing Data. *A paper presented during the VICRES Pollution and Heavy Metals Cluster Workshop 29-1st Sept 2010, Jinja, Uganda.*

Onywere, S. M., D. Mutisya and A. I. C. Kirui (2010), Disaster Risk Management Mainstreaming in the IGAD Region: Status, Gaps and Challenges. *A Research Report presentation to the Technical Committee of the IGAD REFORM Programme, 28th – 30th June 2010, Nakuru, Kenya.*

Onywere, S. M., and J. M. Momanyi (2008), Environmental Implications of Water Hyacinth (Eichhornia Crassipes) Infestation on Lake Naivasha - Anthropogenic impacts on Lake Naivasha Drainage Basin. *A paper presented during the International Symposium on Hydrogeology of Volcanic Rocks, Djibouti – 14th - 19th December, Djibouti.*

Onywere, S. M. (2008), Existing and Planned Structural Reforms in the Water Sector in Kenya. *A Paper presented during the DAAD-Alumni Summer School on “Rural Sanitation Management” in Siegen/Gummersbach (Germany) and the special program for Water, Wastewater and Recycling (DWA) and the IFAT Trade Fair in Munich in the East African Forum, 27th April – 10th May 2008, Munich, Germany.*

Onywere, S. M. (2007), The USHEPIA Training Research Agenda Ten Years on: A Personal Experience. *Paper presented during the USHEPIA Strategy Conference, 11th – 15th Nov. 2007, University of Cape Town, Cape Town, South Africa.*

Onywere, S. M. (2007), Total Quality Management: A basis for ISO Certification for Higher Education Institutions in Kenya. *A paper presented during the Regional Eastern African UNISTAFF Alumni (REAL) Conference on "Education Reform and Innovation in Higher Education". Supported by the Germany Academic Exchange Services (DAAD), 29th Oct. – 2nd Nov. 2007, Lilongwe, Malawi.*

Onywere, S. M. (2007), Anthropogenic Impacts on Water Resources in the Lake Naivasha Basin, Kenya. *A Paper presented during the DAAD International Seminar/Workshop on “Topics of Integrated Water Resources Management” Organized by the University of Siegen in collaboration with University of Dar es Salaam, Tanzania, 4th – 11th November 2007, Bagamoyo, Tanzania.*

Onywere, S. M., Z. M. Getenga., W. Baraza, S. S. Mwakalila, C. K. Twesigye, and J. Nakiranda, (2007), Intensification of Agriculture as the Driving Force in the Degradation of Nzoia River Basin: the Challenges of Watershed Management. *A Paper presented at the Lake Abaya Research Symposium 2007 (LARS 2007) on Catchment and Lakes Research 7th – 11th May 2007, Arba Minch University, Ethiopia.*

Onywere, S. M. (2007), The State of pollution in the Lake Victoria Basin. *Paper presented during Pollution/Heavy Metals Cluster Seminar of the Lake Victoria Research Initiative (VICRES), 21st -24th March 2007, Jinja, Uganda.*

Mwakalila, S. S., C. K. Twesigye, **S. M. Onywere**, J. K. Nakiranda and Z. M. Getenga (2007), The Missing Link in Pollution Management in Lake Victoria Basin. *Paper presented during Pollution/Heavy Metals Cluster Seminar of the Lake Victoria Research Initiative (VICRES), 21st -24th March 2007, Jinja, Uganda.*

Twesigye, C. K., **S. Onywere**, S. Mwakalila, J. Nakiranda and B. Wanyonyi, (2006), Natural Resources Dynamics in the Great Lake Region: Evidence from Remote Sensing Data Analysis. *A Paper presented at the 4th Uganda Society Science and Technology Conference for Universities and Research Institutions, 14th -15th December 2006, Kampala, Uganda.*

Onywere, S. M. (2005), Rapid Population Growth, Urbanization and Implications on the Wetlands and Water Resources with Special Emphasis on Nzoia River, Nakivubo Channel and Simiyu River Basins. *A keynote Speech given during the 3rd Uganda Society Science Conference on “Conserving Water, Wildlife, Wetlands and Agro-Biodiversity for Sustainable Development in the Lake Victoria Basin”, 24th – 25th Nov 2005, Uganda Museum, Kampala, Uganda.*

Onywere, S. M. (2005), Watershed Degradation Analysis of Nzoia River Drainage Basin from a Policy Change Perspective and Using Remote Sensing Data. *A Paper presented during the 11th World Lake Conference on “Management of Lake Basins for their Sustainable Use: Global Experiences and African Issues”, 31st Oct. – 4th Nov 2005 Nairobi, Kenya.*

Onywere, S. M. (2005), The Status of Disaster Management in Kenya: the Need for Training Programmes. *Paper presented during the United Nations University Programme on Disaster Risk Information Management: University Network for Disaster Risk Reduction in Africa Workshop on the “use of Geoinformation and Capacity Building”. Organized by the International Institute for Geoinformation Science and Earth Observation (ITC), Netherlands and Supported by the Netherlands Organization for International Corporation in Higher Education (NUFFIC), 11th – 13th Sept. 2005, Makerere University, Kampala, Uganda.*

Onywere, S. M. (2005), Morphological Structure and the Anthropogenic Dynamics in the Lake Naivasha Drainage Basin and its Implications to Water Flows. *Paper presented during DAAD Alumni Summer School on Topics of Integrated Watershed Management at University of Siegen, Germany and the International Trade Fair for Water and Sanitation (IFAT) at the Technical University of Munich and the Munich Trade Fair, 12th - 29th April 2005, Munich, Germany.*

Onywere, S. M. (2004): Modeling the Dynamics of Lake Naivasha drainage basin, *Paper presented during the 5th African Association of Remote Sensing of Environment (AARSE2005) Conference, 17th – 22nd Oct. 2004 UNEP Headquarters, Gigiri, Nairobi.*

Onywere, S. M. (2002), Digital Image Analysis and GIS Data Base Design of Lake Bogoria Area, Kenya: Three Dimensional Modeling for Slope Evaluation. *Paper presented during the International Conference on “Sustainable Management of Headwater Resources”. Organized by United Nations University, Japan and United States International University, 5th – 8th Sept. 2002 Nairobi, Kenya.*

7.2: INTERNATIONAL CONFERENCES, WORKSHOPS, SEMINARS

“2nd Leadership & Benchmarking Conference on Building Capacity in Universities to Maximize Research Uptake in Supporting Evidence Based Policy and Practice”. **12-14 March 2014**, Protea Seapoint Hotel, Cape Town, South Africa, Facilitated by Development Research Uptake in Sub-Saharan Africa (DRUSSA) Under the Association of Commonwealth Universities (ACU) and funded by DFID

Participated in the African Good Governance Network (AGGN) Eastern and Southern Africa regional chapters' workshop on **Good Governance in Post 2015**, 15th – 18th January, 2015, Best Western Hotel, Nairobi, Jointly organized by the Eastern and Southern Africa Chapters of the, African Good Governance Network (AGGN)

“How to unlock Africa's untapped renewable energies potential”, a Regional Workshop for East African Energy Stakeholders, **10th -11th Feb 2014**, Hilton Hotel, Nairobi, Kenya. Organized by Heinrich Böll Stiftung, Kenya and World Future Council and funded by Climate Parliament

1st Leadership & Benchmarking symposium on *“research uptake and research uptake management issues within the 24 Sub-Saharan Africa Universities”*, **17th -20th Sept 2013**, Fairview Hotel, Nairobi Kenya, Facilitated by Development Research Uptake in Sub-Saharan Africa (DRUSSA) Under the Association of Commonwealth Universities (ACU) and funded by DFID.

Workshop on *“Science, Technology and Innovation Policies and Strategies in East Africa”*, **15th June 2013**, Hilton Hotel, Nairobi, Kenya; a collaborative programme between Kenya Institute for Public Policy Research and Analysis (KIPPRA) of Kenya, Advocates Coalition for Development and Environment (ACODE) of Uganda, and Science, Technology and Innovation Policy Research Organization (STIPRO) of Tanzania.

DRUSSA Campus Visits – Workshop on *“Research Uptake Management (RUM) by Team of 24: What needs to be done to strengthen research uptake management on Campus (systems, processes, behaviours) participatory planning, monitoring and evaluation”*, **2nd -11th August 2012**, Kenyatta University, Kenya, Organized by Kenyatta University and Facilitated by Development Research Uptake in Sub-Saharan Africa (DRUSSA) Under the Association of Commonwealth Universities (ACU) and funded by DFID

DRUSSA programme's *“Inaugural Leadership and Benchmarking Event”*, **18th – 21st June 2012**; Protea Hotel Wanderers Club, Johannesburg, Facilitated by Development Research Uptake in Sub-Saharan Africa (DRUSSA) Under the Association of Commonwealth Universities (ACU) and funded by DFID

7.3: LOCAL CONFERENCES/SEMINARS WITH PAPER PRESENTATIONS

Kenya National Platform for Disaster Risk Reduction (DRR) planning meeting to identify Kenya's priority areas and action points for the Sendai Framework for Disaster Risk Reduction 2015-2030 as adopted in the 3rd UN World Conference in Sendai. Ministry of Interior and Coordination of National Government, UN Strategy for Disaster Risk Reduction and UN Women **21st – 24th March 2016** at Naivasha

Disaster Risk Reduction and Climate Change Adaptation (DRR- CCA) Integration Framework Workshop, held on Friday, **11th March 2016**, at Laico Regency Hotel, Nairobi

Shisanya Chris, **Simon Onywere**, Joy Obando, Anthony Gakobo and Solomon Mwenda (2015) KU GIS For Cernvec activities: Using GIS to make informed decisions in diseases mapping; Implementing training in Geospatial Knowledge. Presentation made during the RESEARCH AGENDA FOR CERNVEC CONSORTIUM RETREAT, 26th – 27th February 2015, Naivasha, Kenya

Onywere S. M., S. Mwenda. A.M. Gakobo and E. Maende (2015), Imparting Spatial Thinking to University Community: Kenyatta University a lighthouse of geospatial Knowledge in sub-Saharan Africa, Presentation made during the conference

Onywere, S. M., (2015) CLIMATE CHANGE AND ITS IMPACTS a presentation made to the Kenya National DRR Platform during the seminar on Kenya Strategy for the Sendai Framework for DRR, 3-5 June 2015, Great Rift Valley Lodge, Naivasha, Supported by UNDP, UNISDR and UN Women.

Onywere, S. M., C. A. Shisanya, J. A. Obando, A. O. Ndubi, D. Masiga, Z. Irura, N. Mariita and H. O. Maragia (2013), Geospatial Extent of 2011-2013 Flooding from the Eastern African Rift Valley Lakes in Kenya and its Implication on the Ecosystems Paper presented during the Workshop on Strengthening Coordination and Data Collection during Disasters, 4th -7th December 2013, Maanzooni lodge, Machakos, Kenya, sponsored by UNDP

Susan Malaso Kotikot and **Simon Onywere (2013)**, Application of GIS and Remote Sensing to Frost Risk Mapping for Improved Agricultural Productivity in the Aberdare Region, Kenya, NASA SERVIR's My Community Our Earth (MYCOE/Servir) Global Programme (East Africa project teams): <https://sites.google.com/a/aag.org/mycoe-servirglobal/susan-final>. Funded by NASA through USAID and facilitated by Association of American Geographers (AAG)

Chelelgo, S. K. and **S. M. Onywere (2012)**, The Potential of Indigenous Knowledge as Drought Coping Mechanisms among Pastoral Communities in Baringo County, Kenya. *A paper presented during the National KDSA/DAAD Conference on "The Role of County Governments in Water Resource Management in Kenya: Challenges & Opportunities". 23rd – 24th August 2012, Moi University Referral Hospital Eldoret, Kenya.*

Onywere, S. M., M. Runo, and W. Mwai (2012), Types and Causes of Disabilities in Kenya: A Comparative Survey of Makindu and Mathare Valley, *a paper presented during the National Disability Stakeholders Workshop, 31st May 2012, French Institute for Research in Africa (IFRA), Nairobi. Jointly organized by IFRA and Kenyatta University (KU) in liaison with the Kenya Umbrella for Children with Disability (KUCD).*

Onywere, S., C. Shisanya, J. Obando and A. Ndubi (2011), National Risk Hazard Vulnerability and Capacity Assessment for Coast, North Eastern and Eastern Provinces draft report presented during the 2nd National Disaster Risk Reduction Workshop on the theme Strengthening National Capacity and Capabilities for Disaster Risk Reduction, Organized by the Ministry of State for Special programmes in collaboration with the Regional Disaster Management Centre of Excellence, 5th May 2011, Nairobi, Kenya.

Shisanya, C., J. Obando and **S. Onywere (2010)**, Towards Sustainable Water Resource Management for Food Security in Bwathonaro Catchment, Kenya. *A paper presented during the Commission for Higher Education (CHE) conference on "Water: An Avenue to Food Security" 20th – 24th June 2010, Mombasa, Kenya.*

Onywere, S. M. (2006), The Environmental Impacts of Mining in Kajiado District, Kenya. *Paper presented during the 11th Conference of the Geological Society of Kenya (GSK) on "Geology for Industrial growth, Wealth Creation and Poverty Alleviation", 1st – 5th March 2006, Nairobi, Kenya.*

Onywere, S. M., Z. M. Getenga., S. S. Mwakalila, C. K. Twesigye, J. Nakiranda, I. Kirui, S. Letema (2005), The Challenges of Rural Poverty Reduction in the River Nzoia Basin, Kenya: the Role of Research for Development in Achieving the MDGs. *Paper presented at the Regional Conference on "the Role of African Universities in the Attainment of MDGs", 14th – 18th November 2005, Nairobi, Kenya.*

Onywere, S. M. (2005), The role of Environmental Management Systems and Geographic Information System in Resources Planning and Management. *Paper presented during the: Integrated Environmental Management Workshop and Sensitization of Policy Makers and Chief Officers from the Municipal Council of Nakuru, Organized and supported by Intermediate Technology Development group (ITDG) 24th – 25th May 2005, Great Rift Valley Lodge, Nakuru, Kenya.*

Onywere, S. M. (1998), The effects of El-Nino – Southern Oscillation (ENSO) Events: The need for a GIS Database. *Paper presented during the Regional Workshop on “El-nino Phenomena and Response Farming Strategies”, 14th –16th July 1998, Egerton University, Kenya.*

7.3 POSTER PRESENTATIONS

Shisanya, C. A., **S. M. Onywere** and J. A. Obando (2011), Towards sustainable water resource management for food security in Bwathonaro Catchment, Kenya. *A poster presented during the LARS-2011 - Lake and Catchment Research Symposium on Water, Sanitation and Energy for Sustainable Livelihoods, 14th – 18th March 2011 Nairobi.*

Momanyi, J. M. and **S. M. Onywere** (2008), Environmental Implications of Water Hyacinth (Eichhornia Crassipes) Infestation on Lake Naivasha - Anthropogenic impacts on Lake Naivasha Drainage Basin. *A poster presented during the International Symposium on Hydrogeology of Volcanic Rocks, Djibouti – 14th - 19th Dec 2008.*

Onywere, S. M. (2008), Vulnerability of Groundwater to Pollution in Lake Nakuru Basin - Locating Pollution Hot Spots in the Lake Nakuru Drainage Basin, *A poster presented during the International Symposium on Hydrogeology of Volcanic Rocks, Djibouti – 14th -19th Dec 2008.*

Onywere, S. M., Z. M. Getenga, S. S. Mwakalila, C. K. Twesigye, J. N. Nakiranda (2008), The Potential of Satellite Imagery, and Policy and Institutional Frameworks in Addressing Sustainable Utilization and Management of Watershed Resources: Pollution/Heavy Metal Cluster Researches in the Lake Victoria Drainage Basin. *A poster presented during the VICRES'2008 5th Annual Forum Agenda on “Walk the Talk and Talk the Walk”, 27th – 31st May 2008, Arusha, Tanzania.*

Onywere, S. M., Z. M. Getenga, S. S. Mwakalila, C. K. Twesigye, J. N. Nakiranda (2008), Locating Pollution Hot Spots in the Lake Victoria Drainage Basin (LVDB): Pollution/Heavy Metal Cluster Researches in the Lake Victoria Drainage Basin. *A poster presented during the VICRES'2008 5th Annual Forum Agenda on “Walk the Talk and Talk the Walk”, 27th – 31st May 2008, Arusha, Tanzania.*

Onywere, S. M., C. K. Twesigye, Z. M. Getenga, S. S. Mwakalila, and J. K. Nakiranda (2007), The changing face of Kampala: Settlement trends assessed from Landsat Satellite imagery for four dates – 1986, 1995, 2001 and 2005. *A Poster presented during the Lake Victoria Research Initiative VICRES'2007 4th Annual Forum on “Linking Research to Action”, 22nd – 25th May 2007, Jinja, Uganda.*

Onywere, S. M., Z. M. Getenga., S. S. Mwakalila, C. K. Twesigye, J. Nakiranda (2007), Pressure from Agriculture, Urbanization and Mining in the Lake Victoria drainage basin as seen from Landsat Satellite imagery FCC Mosaic, Pollution Cluster VICRES Projects *A Poster presented during the Lake Victoria Research Initiative VICRES'2007 4th Annual Forum on “Linking Research to Action”, 22nd – 25th May 2007, Jinja, Uganda.*

Onywere, S. M., C. K. Twesigye, Z. M. Getenga, S. S. Mwakalila, and J. K. Nakiranda (2005) QuickBird standard imagery of Kampala area (Catalog ID: 1010010001B0B201, Acquired on 2003-03-06) natural colour composite showing the constructed part and the lower part of the Nakivubo Channel, Murchison Bay, Kampala, *Poster presented during the 3rd Uganda Society Science Conference on “Conserving Water, Wildlife, Wetlands and Agro-Biodiversity for Sustainable Development in the Lake Victoria Basin”, 24th – 25th Nov 2005, Uganda Museum, Kampala, Uganda.*

Onywere, S. M., S. S Mwakalila, C. K. Twesigye, J. K. Nakiranda and Z. M. Getenga (2005), The Lake Victoria Drainage Basin Landsat Image Mosaic in Visible-Infrared reflectance False Colour Composite (FCC) formed using Landsat bands 4, 3, 2 in RGB order. *Poster presented during the 3rd Uganda Society Science Conference on “Conserving Water, Wildlife, Wetlands and Agro-Biodiversity for Sustainable Development in the Lake Victoria Basin”, 24th – 25th Nov 2005, Uganda Museum, Kampala, Uganda.*

Onywere, S. M. (2004): Wetland Resource Management in the Lake Victoria Basin, *Poster presented during the 5th African Association of Remote Sensing of Environment (AARSE’2005) Conference, 17th – 22nd Oct. 2004 UNEP Headquarters, Gigiri, Nairobi*

Onywere, S. M. (2003): Models of the Lake Bogoria area, 3 posters presented during the Interuniversity Exhibition at the Kenyatta International Conference Centre, Nairobi, 19th – 24th Oct. 2003, Nairobi, Kenya.

7.4 CONVENING AND COORDINATING CONFERENCES/SEMINARS/WORKSHOPS

9-11th September, 2015	Member of the Organizing committee of the 3rd Esri Eastern Africa Education GIS Conference held at Jomo Kenyatta University of Agriculture and Technology (JKUAT) 9-11th September, 2015 on the theme GIS Creating the Future. http://www.esri.co.ke/educ2015-proceedings/
28th – 29th May, 2015	Chairman of the Organizing Committee of the Kenya DAAD Scholars Association (KDSA) / Germany Academic Exchange Services (DAAD) annual Conference and AGM on “Kenya’s Constitutional Provisions and the Citizen’s Rights: Are we on track?” 28th – 29th May, 2015 Kenyatta University Conference Centre (KUCC), Nairobi
28 th – 30 th May, 2014	Member and co-chair of the organizing committee of A Conference to celebrate the 40th Anniversary of the DAAD Regional Office for Africa in Nairobi, Kenya on “Higher Education Co-operation between Eastern Africa and Germany: How to Equip a Leader: Encouraging Leadership, Opening Access, Extending Partnership.” May 28 th to 30 th , 2014 Safari Park Hotel, Nairobi, Kenya and a team leader of Excursion to Lake Naivasha 31 st May 2014.
15th - 18th December 2014	Host and coordinator of GIS and Remote Sensing Training for Mapping of Neglected Tropical Diseases (NTDs) for the CERNVec Project, 15th to 18th December 2014, Kenyatta University – BSSC, Nairobi Kenya, supported by Community of Excellence for Research in Neglected Vector Borne Zoonotic Diseases (CERNVec) with participants from Ministry of Health, KEMRI, WHO, National Aids Control Council and Division of Malaria Control
24 th – 27 th March 2014	Member of the organizing committee and host to a course on “GIS and Remote Sensing for disease and landscape dynamics mapping”. 24 th – 27 th March 2014, Kenyatta University BSSC, Nairobi Kenya, supported by Community of Excellence for Research in Neglected Vector Borne Zoonotic Diseases (CERNVec)

17 th – 18 th Sept. 2013	Member of the organizing committee and host of “ <i>Geographical Information Systems (GIS) for the University Administrator Workshop</i> ” which took place on 16 September, 2013 during the 1st Esri Eastern Africa Education User Conference (EA EdUC) , on the theme “ Learning more and more about geo-spatial technologies ” 17 – 18 September 2013, Kenyatta University Business, and Students Services Centre (KU-BSSC), Nairobi Kenya.
24 th - 27 th July, 2013	Gave opening remarks during a DAAD Sponsored <i>Scientific Paper Writing Workshop</i> , July 24 - 27, 2013, Kenyatta University Conference Centre, Nairobi
28 th October 2013	Member of the organizing committee of the 50th Anniversary of the German-French Élysée Treaty and conference on “ <i>The French-German Locomotive Promoting Regional Integration: A Model for East Africa?</i> ” to Celebrate 50 years of the French - German Collaboration. October 28 th , 2013, Nairobi, Kenya. Supported by Tanzanian-German Centre for Eastern African Legal Studies University of Dar es Salaam School of Law, in cooperation with the University of Bayreuth, DAAD, Institute of Economic Affairs and Konrad Edenaure Foundation
30 th -31 st Oct 2012	Chairman of the organizing committee and convener of <i>the KODI - Open Data Incubator Project Outreach to Research Community: Sensitization Workshop On Open Data</i> , 30-31, October 2012, International Centre for Insect Physiology and Ecology (ICIPE), Duduville, Nairobi, supported by DAAD, NCST, Kenya ICT Board and the World Bank
23 rd –24 th Aug. 2012	Member of the Organizing Committee of the Kenya DAAD Scholars Association (KDSA) / Germany Academic Exchange Services (DAAD) Conference on “ <i>The Role of County Governments in Water Resource Management in Kenya: Challenges & Opportunities</i> ”. 23 rd – 24 th August 2012, Moi University Referral Hospital Eldoret, Kenya.
25 th -27 th July 2012	Chairman of the organizing committee and convener of the <i>Research Proposal Writing Training Workshops</i> in seven (7) venues running concurrently throughout Kenya, a collaboration of the Kenya DAAD Scholars Association (KDSA), the German Academic Exchange Services (DAAD), the National Council for Science and Technology (NCST) and the Graduate Schools/Studies of institutions in the respective venues (Strathmore University, Jomo Kenyatta University of Agricultural Technology, Masinde Muliro University of Science and Technology, Moi University – Referral Hospital, Mombasa Polytechnic University College, Kabarak University and Karatina University College)
23 rd May 2012	Organized a talk for KU Staff by the Director International Development Research Centre (IDRC) on IDRC research support opportunities to developing countries on: <ul style="list-style-type: none"> • Research focused on reducing poverty and creating equitable access to resources and services. • Research work that promotes good governance and builds strong policies. • Research on Climate change through the Climate Change Adaptation in Africa (CCAA) program.
12 th Jan. 2012	Organized a talk by the French Cooperation Attaché at the French Embassy in Kenya, Dr Severine Fogel on the French Foreign Policy in support of research and higher education in Kenya <ul style="list-style-type: none"> • Higher Education and Research in France • French Scientific Cooperation in Kenya • Scholarships Offer from the Embassy of France in Kenya
16 th Nov. 2011	Chairman of the Organizing Committee and Convener of the Kenya DAAD Scholars Association (KDSA) / Germany Academic Exchange Services (DAAD) Conference on Capacity Development for the County Governments in the New Constitutional Dispensation in Kenya. 16th Nov. 2011, Silver Springs Hotel, Nairobi, Kenya.

16 th -17 th Sept. 2011	Chairman of the organizing committee and convener of the <i>Research Proposal Writing Training Workshops</i> in seven (7) venues running concurrently throughout Kenya, a collaboration of the Kenya DAAD Scholars Association (KDSA), the German Academic Exchange Services (DAAD), the National Council for Science and Technology (NCST) and the Graduate Schools/Studies of institutions in the respective venues (University of Nairobi, Kenyatta University, Maseno University, Moi University, Pwani University College, Egerton University and The Kenya Methodist University, Meru).
29 th August – 1 st Sept. 2010	Chairman of the organizing committee and convener of the Pollution Cluster Workshop on <i>“Integrated Risk Assessment and Management of pollutants in Lake Victoria Drainage Basin”</i> , Jinja Kampala leading to publication of number of pollution cluster papers in The Open Environmental Engineering Journal (2011) - http://www.benthamscience.com/open/toenviej/openaccess2.htm and publication of the <i>Proceedings of VicRes pollution cluster workshop on “Integrated risk assessment and management of pollutants in Lake Victoria Drainage Basin”</i> 2 nd – 4 th April 2009, Bujumbura, Burundi.
14 th to 16 th April 2010	Chairman of the Organizing Committee of the Kenya DAAD Scholars Association Conference on <i>“Intellectual Social Responsibility and the Fight Against Corruption in Kenya”</i> , Kenyatta University Conference Centre (KUCC), Nairobi, Kenya (CD of Proceedings).
2 nd – 4 th April 2009	Chairman of the organizing committee and convener of the Pollution Cluster Workshop on <i>“Integrated risk assessment and management of pollutants in Lake Victoria Drainage Basin”</i> , Hotel Club Du Lac Tanganyika, Bujumbura, Burundi and University of Burundi - proceedings in publication.
28 th July – 1 st August 2008	Member of the Organizing Committee and resource person in the Training Workshop on <i>“Integrated Water Resources Management (IWRM) Planning”</i> in collaboration with the University of Dar Es Salaam, Nile IWRM-Net, Cap-Net and Universität Siegen-IWM-Net and EU Water Facility, Bagamoyo, Dar Es Salaam, Tanzania.
23 rd – 28 th April 2007	Secretary of the Organizing Committee of the Regional training workshop on <i>“Geospatial Data Processing, Interpretation and Modeling Applied to Integrated Water Resources Management in the Eastern African Rift”</i> , Regional Centre for Mapping of Resources for Development (RCMRD), Nairobi. Within the MAWARI PROJECT: Vulnerability of Groundwater to Pollution in the East African Rift System. Supported by French Ministry of Foreign Affairs – International Centre for Training and Exchanges in the Geosciences (CIFEG).
5 th - 11 th Nov 2006	Member of the Organizing Committee of the International UNISTAFF Conference and Workshop on <i>“Quality Assurance in Higher Education”</i> Organized by Kenyatta University, University of Kassel, DAAD and BMZ Kenyatta University, Nairobi, Kenya and lead the Excursion to Lake Naivasha and Hell’s Gate National Park.
26 th – 27 th May 2005	Chairman of the Organizing Committee of the Kenya DAAD Scholars Association Conference on <i>“Re-invigorating the University Mandate in a Globalizing Environment: Challenges, Obstacles and Way Forward”</i> , Kenyatta University, Nairobi, Kenya.
14 th –16 th July 1998	Member of the Organizing Committee and as Chairman of the Department of Geography was host to the conference on <i>“El-Nino Phenomena and Response to Farming Strategies Workshop”</i> . Organized by the Kenya Rainwater Association and Department of Geography, Egerton University, Egerton University, Njoro, Kenya.
27 th Nov. – 1 st Dec. 1995	Member of the Organizing Committee of the First Kenya DAAD Scholars Association (KDSA) Conference on <i>“Strengthening the Relationship between the University and Industry”</i> , Organized by KDSA and Sponsored by DAAD, Nairobi, Kenya.

8.0: POSTGRADUATE SUPERVISION (MASTERS AND PHD)

8.1: PHD SUPERVISION (COMPLETED)

Name	Reg. No.	PhD. Research Project	Supervisors	Status
John M. Mironga	Egerton University	The Spreading Patterns and Environmental Implications of Water Hyacinth (<i>Eichlornia Crassipes</i>) Infestations in Lake Naivasha, Kenya	J. Mathooko (Egerton) S. Onywere	Graduated PhD Geography 2008
Joseph Victor Otieno Ikawa	N85/21133/2010 Kenyatta University	The Past, Current and Future - A Study on Increasing Use and Availability of Green Space in Nairobi	C. Mireri S. Onywere	Graduated PhD EPM 2014

8.2: PHD SUPERVISION (ON-GOING)

Alan I. Cheruiyot Kirui	N85/10249/2007 Kenyatta University	Determination and Reduction of risk generated by rapid onset environmental Disaster in Nairobi City, Kenya	C. Mireri S. Onywere	On-going (90%) done
John Nyangena	N85/30388/2010 Kenyatta University	Livelihood Diversification as a Drought Response Strategy in Chyulu Hills-Amboseli Ecosystem in Kajiado County, Kenya	S. Onywere C. Shisanya	ongoing 80 % done
Gathura James Gichuki	N85/23420/2012 Kenyatta University	Assessment of Climate Change Adaptation Strategies in Water Resource Management Regime in Thiba River Drainage Basin, Kenya.	S. Onywere P. Obade	ongoing 40 % done
Thomas T.B. Yatich	N85/15167/2004 Kenyatta University and ICRAF	Climate variability and its influence on land use patterns, balances and tradeoffs of ecosystem services and human health in Nyando and Yala river basins	S Onywere C. Mireri B Swallow (ICRAF)	On-going (70%) done
Michael Makokha Odera	N/85/7003/2002 Kenyatta University and KARI	Tradeoffs Model Analysis (TOA) of Soil Carbon Sequestration in Smallholder Agricultural system, with reference to Central Kenya Highlands	S Onywere C. Shisanya S Kamni (KARI)	On-going (80%) done
Charles O. Mong'are	N85//2000 Kenyatta Univ. and RCMRD	Spatial Decision-Support System for Community wildlife Conservation Project in Amboseli National Park, Kenya	S. Onywere W. Ottichilo (RCMRD)	On-going (40%) done

8.3: MASTERS SUPERVISION (COMPLETED)

Paul Maina	N50/CTY/PT/226 93/2012 Kenyatta University	The Role of Land Use and Land Cover Change in Flood Risk Management in Kilifi County, Kenya.	S. Ochola S. Onywere	Complete, awaiting graduation
Antony Gakobo	N50/21199/2012 Kenyatta University	Using Satellite Data as a Tool to Monitor Compliance and Enforcement of Forest Regulations in Karura Forest, Nairobi County.	S. Onywere Alan Kirui	Graduated MEPM 2014
Obadiah Ngila	N50/CTY/PT/229 73/2012 Kenyatta University	The Response of Kasikeu River to the Impact of Anthropogenic Activities in the Catchment area, Makueni County, Kenya.	S. Onywere W. Nyaoro	Graduated MEPM 2014
Lilian Wanjiru Nduiti	N50/20734/2012 Kenyatta University	Viability of Indigenous Knowledge Based Strategies on Mitigation of Drought on Gachoka Division, Embu County-Kenya.	S. Onywere M. Dekow	Graduated MEPM 2014
Hausner Kitali Wendo	N50/21542/2010 Kenyatta University	Assessing Land Use/Land Cover Changes and their Potential to Destroy the Important Bird Habitat of Dunga Wetland, Kisumu County, Kenya.	S. Onywere W. Nyaoro	Graduated MEPM 2013
James M. Kitonga	N50/13409/2009 Kenyatta University	The effect of climate variability on honey productivity of on by the honey bee [<i>Apis mellifera</i>] in Mwingi District, Kenya.	S. Onywere C. Shisanya	Graduated MEPM Dec. 2013
Chelelgo K.	N50/13008/2009	The Potential of Indigenous Knowledge as	S. Onywere	Graduated

Stanley	Kenyatta University	Coping Mechanisms to the Impacts of Drought Among Pastoralist Communities in Baringo County, Kenya.	W. Nyaoro	MEPM Dec. 2012
Bunyasi M. Martin	N50/21543/2010 Kenyatta University	Assessment of Sedimentation of Masinga Dam and Its Implication on the Capacity of the Dam for Hydropower Generation.	S. Onywere W. Nyaoro	Graduated MEPM Dec. 2012
Lilian Ajuoga	N50/10737/2008 Kenyatta University	The impacts of changing land use patterns on wildlife in hells gate ecosystem, Naivasha, Kenya.	S. Onywere C. Getao	Graduated MEPM Dec. 2011
David Makori	N50/13008/2009 Kenyatta University	The effects of mining on biodiversity in East African Portland Cement Athi River Mining area, Kenya	S. Onywere J. Kinyanjui (DRSRS)	Graduated MEPM Dec. 2011
Eunice Githinji	N50/13515/2009 Kenyatta University	Water Harvesting Techniques for Agricultural Productivity in Lari Division, Nakuru	S. Onywere W. Nyaoro	Graduated MEPM Dec. 2011
Muya, Jushua Mutuku	N50/12721/2009 Kenyatta University	Integrated Land and Water Resource Management as a Way to Sustainability in Rural Areas; A Case Study of Kyanzavi Division, Kangundo District	S. Onywere W. Nyaoro	Graduated MEPM Dec. 2011
Murithi Joyce Kawira	N50/10400/2008 Kenyatta University	Community vulnerability to landslide disasters in Giumpu, Meru Central District	S. Onywere W. Nyaoro	Graduated July 2011
Wambugu Geoffrey Mwangi	N50/10312/07 Kenyatta University	Simulating the impacts of two forest management scenarios in a multiple-use Kenyan coastal environment.	S. Onywere W. Nyaoro	Graduated MEPM Dec. 2009
Kigumo Mathew Kiura	N50/10317/2007 Kenyatta University	The effects of forest loss on the hydrological processes in the upper catchment of Ewaso Ngiro South River	S. Onywere W. Nyaoro	Graduated MEPM Dec. 2009
Lazarus Kivai Nthiwa	N50/13743/2005 Kenyatta University	An Integrated Watershed management Plan for Improved Water Supply in Ngelani Location	S. Onywere W. Nyaoro	Graduated MEPM 2007
Immaculate Simiyu	N50/0219/2003 Kenyatta University	Anthropogenic Impacts on Ground Water Resources in Naivasha Urban and Peri Urban Area and the Need for Vulnerability Studies	S. Onywere D. Olago	Graduated MEPM 2007
Musyoka Ashford Bururia	N50/6283/2003 Kenyatta University	Planning for sustainable management of wetlands of Magumoni Division of Meru South District, Kenya	S. Onywere W. Nyaoro	Graduated MEPM 2005
Samuel Getaro Abaya	N50/5816/2003 Kenyatta University	Development and maintenance of urban services in Nyamira Town and its impacts on the growth of the town	C. Mireri S. Onywere	Graduated MEPM 2005
Wandera F. Hamala Odongo	N50/5812/2003 Kenyatta University	The effect of the use of the "Maendeleo Stove" on the livelihood of households in Kamelil Sub Location, Tinderet Division, Nandi South District	S. Onywere S. V. Obiero	Graduated MEPM 2005
Kenyanitto Toure	N50/9177/2000 Kenyatta University	Social determinants of road traffic accidents along Nairobi Thika Highway,	C. Mireri S. Onywere	Graduated MEPM 2004
Peter Macharia	Egerton University	The Effect of the 1997 El-Nino Related Rains on House Hold Food Crop Production in Central Division of Laikipia District.	S. Onywere P. Wandawa	Graduated MSc. Geog. 2002

8.3: MASTERS SUPERVISION (ON-GOING)

Esther Nairesiai Kimiti	N50/CTY/PT/277 09/2013	Changing land use patterns in the Amboseli ecosystem and its implications on pastoralism livelihood system	S. Onywere	70% complete
Betty Nanjira Bakari	N50/CTY/PT/265 20/2013	Urban agriculture and its implication on human and environmental health in the East Lands areas of Nairobi County	S. Onywere	80% complete
Kennedy Mungai Mwangi	N50/10321/07 Kenyatta University	Modeling Deforestation and its effect on Biodiversity using GIS platform	S. Onywere F. Waswa	Differed studies
Paul Manan	N50/7382/01	Assessment of groundwater quality in relation to	M. Tole	Differed

Mubinya	Kenyatta University	surface water along the lakes Naivasha-Elementaita-Nakuru basin	S. Onywere	studies
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9.0 NETWORKING AND COLLABORATION WITH EXTERNAL ORGANIZATIONS

April 2014 - Present	Coordinating and Championing Use of ArcGIS on KU Campus under the 100 African Universities programme Award from ESRI through the ArcGIS Enterprise license (Master License Agreement Number 2013MSL4013).
10 th Feb 2014	Management of Internationalization Project meeting between Kenyan Public Universities and Leibniz University, Hannover, Germany under Dialogue on Innovative Higher Education Strategies (DIES), Supported by DAAD.
March 2012 - Sept. 2012	<p>Spearheaded the Establishment of Linkage between Kenyatta University and ESRI Eastern Africa under the 100 African Universities programme that lead to award of ESRI ArcGIS Enterprise license (Master License Agreement Number 2013MSL4013) and signing of MoU with the following Objectives:</p> <ul style="list-style-type: none"> • To use GIS to nurture spatial thinking and as a key technology to help students develop analytical and problem solving skills; • To use GIS to provide students with tools to develop a better understanding of the world's resources and challenges. • To use GIS knowledge to promote geospatial education and research in developing countries in general and in Eastern Africa in particular. • To collaborate in the field of geospatial technologies in training/teaching, research and administration. • To make available campus-wide the Geospatial ESRI Software http://www.ku.ac.ke/schools/environmental/images/stories/ku_gis/MoU%20Esri%20Eastern%20Africa%20&%20Kenyatta%20University%20signing.pdf
April 2012 - Present	Appointed as contact person for Kenyatta University in the George Mason University Global Problem Solving Consortium of 8 Universities (University of Brasilia, Brazil; University of Delhi, India; Higher School of Economics, Russia; Istanbul Sehir University, Turkey; Kenyatta University, Kenya; George Mason University, USA; Tsinghua University, China; and Sejong University, South Korea)
February 2012 - present	<p>Chairing the Vice Chancellor's Committee on Kenyatta University Research and Industrial Park whose main task is to work towards establishment of the park which will be informed by the need for:</p> <ul style="list-style-type: none"> • An Innovation and Incubation facilities • Improved research for development environment • Up-scaling of research to industrial production • Collaboration with industry
February 2011 – March 2012	<p>Chaired the Vice Chancellor's Committee that spearheaded the establishment of collaboration between Kenyatta University and the Kenya Wildlife Service (KWS) with the following long-term objectives:</p> <ul style="list-style-type: none"> • To mobilize resources and collaborate in joint research and build capacity through exchange programmes and short courses and jointly supervise students in areas of mutual interest; • To exchange information and research documentation, both written and electronic as guided by information and data sharing protocols and to use each other's facilities and research equipment subject to adequate prior notice and availability;

	<ul style="list-style-type: none"> To participate in jointly organized seminars, workshops and conferences including participation with other collaborators in relevant areas and engage in joint publications;
August 2008	<p>Established Linkage between Kenyatta University and Water Resources Management Authority -Tana (WRMA-Tana) with the following Objectives:</p> <ul style="list-style-type: none"> To avoid institutional duplication in water resources use, development, conservation, protection and control. Create synergies to enhance complimentary institutional working relationship with a view to accelerating effective IWRM. Ensure effective involvement of stakeholders in all aspects of IWRM Undertake resource mobilization for enhanced, effective and efficient use of resources. To generate and disseminate data on water resources.
Sept 2006 - Present	<p>Member of the pioneer team that established the Regional Eastern Africa DIES Alumni Networking (REAL), Kenya, Malawi, Uganda, Ethiopia, Tanzania and Sudan and engaged in Networking for Quality in Higher Education</p>
In July 2006	<p>Established the linkage between the University Network for Disaster Risk Reduction in Africa (UNEDRA) University Network for Disaster Risk Reduction in Africa (with emphasis on the use of Geo-information and Capacity Building (Kenya, Tanzania, Ethiopia, Eritrea, South Africa, Zimbabwe, Mozambique, Uganda, Lesotho, Namibia, DR of Congo and Rwanda) and Kenyatta University - Concerning Capacity Building and Research in Disaster Risk Reduction In Africa With the following long-term objectives:</p> <ul style="list-style-type: none"> To increase the capacity of government organizations in Africa responsible for hazard and risk assessment, and make them less dependent on foreign disaster response. To increase the awareness and capacity of municipal authorities in the field of risk management. To secure new – and to strengthen existing networks of Universities that will provide young professional with adequate training in the field of disaster risk reduction, aiming at a successful completion of these longer-term objectives.
2005 and 2006	<p>Contributed to the establishment of the water network (GAWN – German Alumni Water Network) http://www.GAWN.uni-seigen.de as a partner from Kenyatta University.</p>
In July 2005	<p>Established linkage between Regional Centre for Mapping of Resources for Development (RCMRD) and Kenyatta University with the following specific areas of cooperation:</p> <ul style="list-style-type: none"> Scientific research, postgraduate training and Industrial attachment for students in the area of GIS and remote sensing training. Promotion and development of environmental information system and geo-spatial data infrastructures for land/earth resources.

10.0 RESEARCH GRANTS WON

Feb. 2013 - present	National Council of Science and Technology (NCST) 5 th Call Research 2012/2013 - (Health, Water & Sanitation) award for the project: <i>Understanding the environment, promoting health in Lake Baringo/Bogoria Drainages Basin Kenya</i> . Project Partners Kenyatta University - Simon M Onywere (PI) , Chris Shisanya, Joy Obando; Kengen – Nicholas Mariita Bw'Obuya; Mines and Geology – Haron Onsomu; Department of Disease Surveillance – Zephania Irura, ICIPE - Dan Masiga (KShs 6,000,000)
Aug. 2012 - March 2013	Service tender from the Ministry of State for Special Programmes Tender No. MOSSP/15/2011-2012- to Undertake a Risk Hazard Vulnerability and Capacity Assessment Mapping for Western, Nyanza, Nairobi and Central Provinces in Support of Disaster Risk Reduction. Collaborators: Simon M. Onywere (Team Leader) , Joy A. Obando and Antony O. Ndubi (KShs 3,024,500).
April 2011 - Present	Member of Kenyatta University implementation team of the project “Community of Excellence for Research in Neglected Vector Borne Zoonotic Diseases (CERNVec)”, Funded by the Consortium for National Health Research (CNHR) to the tune of Ksh. 42 million, with ICIPE (Lead Applicant is Dr. Daniel Masiga) being the lead institution and in collaboration with: <ul style="list-style-type: none"> • Kenyatta University (KU) • Ministry of Public Health Services (MoPHS) • Jomo Kenyatta University of Agriculture & Technology (JKUAT) • Kenya Medical Research Institute (KEMRI)
July 2012	Awarded a workshop support grant by the German Academic Exchange Services (DAAD) and the National Council for Science and Technology (NCST) for the Kenya DAAD Scholars Association (KDSA) to mount Research Proposal Writing Training Workshops in seven (7) venues running concurrently throughout Kenya in a collaboration with the Graduate Schools/Studies of institutions in the 7 venues 25 th – 27 th July 2012 (Kshs.1,922,000).
Sept 2011	Awarded a workshop support grant by the German Academic Exchange Services (DAAD) and the National Council for Science and Technology (NCST) for the Kenya DAAD Scholars Association (KDSA) to mount Research Proposal Writing Training Workshops in seven (7) venues running concurrently throughout Kenya in a collaboration with the Graduate Schools/Studies of institutions in the 7 venues 18 th – 19 th Sept 2011 (Kshs.1,548,000).
2010	Service tender from the Ministry of State for Special Programmes for Disaster Risk Management Project: PROJECT ID:00071619, Award No: 00057861 3KEN 09003 to Undertaking A Risk, Hazard, Vulnerability and Capacity Assessment/Mapping in Support Of Disaster Risk Reduction for Coast, North Eastern, Eastern and Rift Valley Provinces. Collaborators: Simon M. Onywere (Team Leader), Chris Shisanya, Joy Obando and Antony O. Ndubi (Kshs 3,244,150).
2010	Freelance Contract with Gesellschaft für Organisation, Planung und Ausbildung mbH (GOPA) to implement a fixed-term project for the IGAD Regional Food Security and Risk Management Programme (REFORM) on “Community Based Disaster Risk Management (CBDRM) Regional Training Workshop 19 th – 23 rd July 2010, Hawassa, Ethiopia.

2009	Service Tender Ref: IGAD/REFORM/DRM/01/[02] - IGAD/Regional Food Security and Risk Management Programme for Activity No. 3.8 – Start the Promotion of Mainstreaming DRM approaches and practices into overall development planning within the IGAD Member States - Regional DRM Mainstreaming Study – Lot 2. To be implemented in five IGAD Countries; Kenya, Uganda, Ethiopia, Sudan and Djibouti from 17 th Jan – 3 rd March 2010. Collaborators: Simon M. Onywere (Lead Expert), Dorothy Mutisya, Alan I. Kirui. (EUR 17,450).
2008	Commission for Higher Education (CHE) Research Funding on the project: <i>“Enhancing Sustainable Water Resource Management for Food Security: A Case Study of Bwathonaro Catchment (a 2 year scientific project)”</i> Collaborators: C. Shisanya (Principal Investigator), S. Onywere and J. Obando. (Kshs 3,000,000).
2006	MAWARI PROJECT - French Ministry of Foreign Affairs – International Center for Training and Exchanges in the Geosciences (CIFEG) Research Grant for the research project: <i>“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 (a 4 year scientific project)”</i> . Collaborators from Kenya: J. Barongo (Principal Investigator), S. Onywere, T. Korme, P. Gicheru and N. Ngata (EUR 128,000).
2004	Lake Victoria Research Initiative (VICRES) Research Grant under the Interuniversity Council of East Africa (IUCEA) with Swedish International Aid Agency (SIDA) for the research project: <i>“Use of Remote Sensing Data in Sustainable Management and Utilization of Watershed Resources in the Nzoia River, Nakivubo and Mwanza Gulf Drainage Basins (a 3 years scientific project)”</i> . Collaborators: Onywere, S. M. (Lead Scientist), Z. Getenga, S. Mwakalila, C. Twesigye and J. Nakiranda (USD 137,715).
2003	African Institute for Capacity Development (AICAD) Award, for the research project: <i>“Integrated Water Resources Management Systems for Makueni District (a 1 year scientific project)”</i> . Collaborators: W. Kaluli (Principal Investigator), J. M. Gathenya, S.M. Onywere, J. Wanyama, M. Hai and A. Kariuki (Kshs. 2,000,000).
2003	USHEPiA/CARNEGIE Small Grants Scheme – Squad 2 for the research project: “Modeling of the dynamics of the Lake Naivasha drainage basin wetlands using a GIS platform (1 year) (USD 7,000).
2002	USHEPiA/CARNEGIE Small Grants Scheme – Squad 1 for equipment to Establish a remote sensing/GIS Lab.: <i>“Geo-information Technology for Environmental Assessment (a 1 year activity)”</i> . Kenyatta University, Kenya) (USD 10,500).
2002:	AAU USHEPiA/CARNEGIE Research Publication Network Fellowship for 3 Months to the University of Zambia, Department of Geology, for research publication on: <i>“Digital image analysis and GIS database design of Lake Bogoria area: Three-dimensional modeling for slope evaluation”</i> . S. Onywere (Travel Support + USD 3,000).
1994	DAAD research grant for part of PhD research to AGF, Ludwig Maximillians, University of Munich, Germany: <i>“Digital image analysis and land cover classification of the Central Rift Valley in Kenya (a 5 month laboratory analysis activity)”</i> . (Dm 20,000).
1993	Travel Support Award by the National Aeronautics and Space Development Agency (NASA) for the International Geoscience and Remote Sensing Symposium (IGARSS’93), Kogakuin University, Tokyo, Japan (USD 2,000).

11.0 NATIONAL AND INTERNATIONAL RECOGNITION

11.1 INTERNAL AND EXTERNAL EXAMINER

April 2016	Appointed as External Examiner, Department of Environmental Monitoring, Planning and Management, School of Environmental studies, University of Eldoret (for 3 years)
November 2015	<u>External Examination</u> for Joy Atieno Amore's Masinde Muliro University of Science and Technology PhD Thesis on "Vulnerability of Fishermen to Natural and Technological Hazards on Lake Victoria, Kenya".
October 2015	<u>External Examination</u> for Adan Abass Tawane's Masinde Muliro University of Science and Technology Masters Thesis on "Disaster Risk Awareness and its Influence on Disaster Preparedness in the Management of Drought among Residents of Mandera County, Kenya".
August 2015	<u>External Examination</u> for Joyce Okayo's Masinde Muliro University of Science and Technology PhD Thesis on "Community Sensitization for Flood Disaster Mitigation in Kano Plains, Kisumu County, Kenya".
June 2015	<u>External Examination</u> for Imboba Khabetsa Noreah Immaculate's Masinde Muliro University of Science and Technology Masters Thesis on "Contribution of Production Industries to Disaster Preparedness in Mumias and Thika Towns, Kenya".
June 2015	<u>External Examination</u> for Emmanuel Wanyonyi Situma's Masinde Muliro University of Science and Technology Masters Thesis on "Evaluation of Disaster Risk Reduction Measures Against Landslides in Nandi Escarpment, Western Kenya".
August 2013	<u>External Examination</u> for Mr. Amos Antony Ngira's Masinde Muliro University of Science and Technology PhD Thesis on "Climate Change Education: Effects and Risk Reduction Strategies among Secondary Schools in Busia County, Kenya".
Sept 2012	<u>Internal Examination</u> for Mr. Wambongo C. S. Recha's Kenyatta University Ph.D. - Geography Thesis Entitled, "Effects of Rainfall Variability on Livelihoods and Water and State of Adaptive Capacity In Semi-Arid Tharaka District, Kenya"
Sept 2012	<u>Internal Examination</u> for Ms. Jannifer Gachago's Kenyatta University MSc. – Public Health thesis on "An Investigation of Fire Risk in Kiandutu Slums in Thika Municipality, Kenya."
April 2012	<u>Internal Examination</u> for Mr. Felix Muthomi Kithinji's Kenyatta University MSc. thesis on ""Socio-Economic Factors Influencing Household Use of Wetlands Resources and Conservation in Ngaciuma Sub-Catchment, Upper Tana, Kenya."
April 2012	<u>External Examination</u> for Ms. Beatrice Pamela Awour Onyango's Masinde Muliro University of Science and Technology MSc. Thesis on Investigation of Sustainable Environmental Management Practices by Petroleum Firms in Nairobi Province, Kenya".
May 2011	<u>Internal Examination</u> for Mr. John Musau's Kenyatta University MSc thesis on "The Role of Shompole Eco-Lodge in Community Development in Magadi Region, Kenya"

May 2011	<u>Internal Examination</u> for Mr. James Wambua Singi's Kenyatta University MEPM research project on "Challenges and Prospects of Food Security Attainment in Taita - Taveta District, Kenya."
May 2011	<u>Internal Examination</u> for Mr. Kiama Philip Mbugua's Kenyatta University MSc. (Hospitality Management) Thesis on "The Role of Shompole Eco-Lodge in Community Development in Magadi Region, Kenya."
Oct. 2010	<u>Internal Examination</u> for Mrs Gladys Gathuru's Kenyatta University Ph.D. Thesis on "The Performance of Selected Tree Species in the Rehabilitation of a Limestone Quarry at East African Portland Cement Factory, Athi River, Kenya."
Oct. 2010	<u>Internal Examination</u> for Mr. Kiama Philip Mbugua's Kenyatta University MEPM research project on "An Assessment of the Impacts on Increased Land Subdivision on water supply infrastructure in Karen-Langata, Nairobi."
Oct. 2010	<u>Internal Examination</u> for Mr. Muiruri Fredrick Mungai's Kenyatta University MEPM research Project on "Analysis of point source pollution on the quality of water in Ruiru River."
May 2010	<u>Internal Examination</u> for Mr. William Kiptoo's Kenyatta University MEPM research project on "Assessment of Bushbucks habitats in Lake Nakuru National Park, Kenya."
April 2010	<u>Internal Examination</u> for Mr. Murakaru James Mugo's Kenyatta University MEnv.Sc. Thesis on "Assessment of the Physco-Chemical Status of Lake Naivasha, Kenya."
February 2010	<u>External Examination</u> for Mr. Akali Ngaywa Moses's Masinde Muliro University of Science and Technology MSc. Thesis on "Contribution of Mumias Sugar Company to Pollution Loading in River Nzoia, Western Kenya."
January 2010	<u>Internal Examination</u> for Kennedy Obiero's Kenyatta University PhD Thesis entitled "Water Resources' Challenges and their Management Practices in River Gucha-Migori Sub-basin, Western Kenya."
November 2009	<u>Internal Examination</u> for Miss Jacqueline Wanjiku Njogu's Kenyatta University MEPM Thesis Entitled "Challenges and opportunities for sustainable water supply and demand management in Ruiru Municipality."
January 2008	<u>Internal Examination</u> for Mr. John Momanyi Mironga's Egerton University PhD Thesis entitled "The Spreading Patterns and Environmental Implications of Water Hyacinth (<i>Eichhornia Crassipes</i>) Infestation in Lake Naivasha, Kenya."
February 2007	<u>Internal Examination</u> for Mrs. Brenda Nekesa Oduor's Kenyatta University MA Thesis entitled "Socio-economic Aspects and Geomorphologic Effects of Quarrying in Nairobi and its Environs."
June 2005	<u>Internal Examination</u> for Shadrack Kiama Murimi's Kenyatta University PhD. Thesis entitled "Environmental Impact of Soils and Water Resources in the Catchment of Lake Nakuru."
February 2003	<u>Internal Examination</u> for Mr. Paul Aloyo's Kenyatta University MEPM research project on "Integration of Environmental Concerns in the Planning of Educational Facilities: the Case of Butere Girls High School."

August 2002	<u>External Examination</u> for Mr. Vincent S. Okello's University of Nairobi MSc. Thesis on "The Application of Remote Sensing and GIS Techniques for Groundwater Studies in Lurambi-Bunyala area, Kenya."
August 2000	<u>Internal Examination</u> for Mr. Peter Macharia's Egerton University MA Thesis on "The effect of the 1997 El-Nino related rains on subsistence farming in Central Division of Laikipia District."

11.2 NATIONAL RECOGNITION AND SERVICES TO COMMUNITY AND PUBLIC SECTOR

14 th – 15 th April 2016	<p>Invited as a GIS Champion to Kisii University for a two day GIS Open Forum and mentorship on establishing a GIS lab and GIS Implementation with the specific objectives to demonstrate practical application of GIS and improving learning, research and capacity development:</p> <ol style="list-style-type: none"> i. Introduction of Esri Education program ii. Communicating by example the GIS implementation story of Kenyatta University iii. Presentation of some example of GIS application iv. Survey of Kisii University ICT Infrastructure and capacity v. Held a strategy meeting on the implementation of a GIS for Kisii University <p>This is a thought leadership and collaborative activity between Kenyatta University, Esri Eastern Africa in the promotion of use of Geospatial tools for teaching and research.</p>
27 th January, 2016 Present	<p>Nominated to the membership of the National Steering Committee on Monitoring for Environment and Security in Africa (MESA), a European Union (EU) funded project implemented by the African Union (AU) through the Regional Economic Communities (RECs). The IGAD Climate Prediction and Applications Centre (ICPAC) is the Regional Implementation Centre (RIC) responsible for the overall management of the project with the following objectives:</p> <ul style="list-style-type: none"> • To enhance the assessment and monitoring of land degradation, natural habitats and forests for sustainable land management in IGAD region • To strengthen political and policy development frameworks sufficient to ensure an active and sustainable participation of IGAD member states in the global environmental surveillance initiatives.
13 th – 15 th April 2015	<p>Participated in the DAAD Selection Committee Meeting, for evaluation of DAAD In-Country/In-Region postgraduate Scholarships commissioning and selection of Eastern Africa Academic Institutions/Networks (re-)admission to the programme. Facilitated by DAAD Regional Office for Africa and Inter-University Council for East Africa</p>
23 rd – 24 th Nov. 2015	<p>Invited Speaker at Beacons of Manhood 2015 and gave a talk and facilitated a session on THE IMPORTANCE OF EDUCATION: KNOWLEDGE FOR GOOD HEALTH AND LONG LIFE (Work as a gift, Academics and careers, Stewardship of resources and Integrity and accountability) 23rd – 24th Nov 2015, Kahawa Sukari Deliverance Church, Kiambu</p>
Wed. 18 th November, 2015	<p>Organized and chaired the GIS Day 2015 celebrations at Kenyatta University as part of the annual salute to geospatial technology and its power to transform and better lives under the theme: "Discovering the World through GIS." At the Kenyatta University Students Business and Service Centre</p>

4 th Nov., 2015	Participated in the launch of the Stakeholders' Validation Workshop on Kenya National Groundwater Mapping Programme, Ministry of Water and Irrigation and UNESCO, 4 th November, 2015, Kenya School of Monetary Studies.
28 th - 29 th August 2015	Discussant on the topic: Climate Change at the Forum on The National Forum on Harnessing Data For Sustainable Development 2015 on the theme Transformation Through Evidence, 28 th - 29 th August 2015 Laico Regency Hotel, Nairobi. Organized by the Government of Kenya, Partnership for African Social Governance Research (PASGR) and Local Development Research institute (LDRI)
22nd – 24th October 2015	Invited Speaker at "Start-up Symposium on Jumuiya ya Kaunti Za Pwani Integrated Transformational Development of Kenya's Coastal Region Economic Clusters by 2030: The Jumuiya Ya Kaunti za Pwani Economic Blueprint, 21 st – 24 th October 2015, Jacaranda Indian Ocean Beach Resort, Kwale County"
	Gave a presentation on "MAINSTREAMING DISASTER RISK MANAGEMENT INTO DEVELOPMENT OF COASTAL COUNTIES OF KENYA" and facilitated a group discussion on "INVESTING IN CAPACITY BUILDING, RESEARCH, DATA COLLECTION AND ANALYSIS FOR THE COUNTIES"
2 nd – 4 th July, 2015	Invited as a GIS Champion to Taita Taveta University College (TTUC) for a two day GIS Clinic and mentorship on establishing a GIS lab under ESRI's 100 Africa Universities Program with the specific objectives to demonstrate practical application of GIS and improving learning, research and capacity development among the students in; <ul style="list-style-type: none"> i. Mining application e.g. 3D analysis for route planning and earthwork volumes. ii. Natural resources management applications. iii. Applications for business intelligence e.g. geo-marketing iv. Big data analytics. A collaborative activity between Kenyatta University, Esri Eastern Africa and Taita Taveta University College
Tue. 18 th November, 2014	Organized and chaired the GIS Day 2014 celebration at Kenyatta University as part of the annual salute to geospatial technology and its power to transform and better lives under the theme: "Discovering the World through GIS.", Kenyatta University Students Business and Service Centre
24th – 26th October 2013	Invited as a trainer for the mapping survey (24th October to end of November 2013) of soil transmitted helminthes and bilharzia in Kenya by the Neglected Tropical Diseases Unit of the Division of Communicable Diseases Prevention and Control, MoH. Project supported by WHO AFRO, 24 th – 26 th October 2013, KEMRI Nairobi Kenya.
23rd – 25th August 2013	Invited Speaker at THE EDUMED TRUST STUDENTS RETREAT 2013, and gave a talk and facilitated a session on Academic counseling under the <i>theme "Sharpening your Axe: Effective study habit and methods"</i> , 23 rd – 25 th August 2013, St. George's Girls Secondary School, Nairobi, Kenya
Jan. 2010 Present	Member and Vice Chairperson (since Jan 2013) of Christ Is The Answer Ministries (CITAM), NPC Karen Professional Ministry which annually in May organizes a Careers Mentoring Day for High School form four students from Nairobi and its environs.

24th - 27th Sept. 2012	Awarded a Certificate of appreciation as a resource person during training on use of Global Positioning System (GPS) and Maximization of Geographic Information System (GIS) in mapping to enhance surveillance of zoonotic and neglected tropical diseases. 24 th - 27 th Sept. 2012, Kenyatta University, Nairobi, Kenya.
14th Sept. 2012	Nominated by the Vice Chancellor Kenyatta University to Serve in the National Council for Science and Technology (NCST) Science, Technology and Innovation Working Group of the Second Medium-Term Plan
12-14th 2012	Sept. Participated as a Resources Person at Kisumu City Council's Workshop to Formulate A Strategy and Plan of Action for Resilience-Building; Making Cities Resilient Using the " Ten Essentials' Framework ". Jointly organized and facilitated by UNISDR / UN-HABITAT, Ministry of State for Special Programmes, and the National Disaster Operations Centre.
28-29th 2012	Aug. Participated in Eastern Africa Disaster Risk Management Sub-Regional Programme Under, ACP-EU Natural Disaster Facility meeting in the DISASTER RISK MANAGEMENT TECHNICAL ADVISORY COMMITTEE and the Inception Report and Prototype Regional Multi-Hazard a Related Vulnerabilities' Maps and Atlas, 28-29 August 2012, Hilton Hotel, Nairobi, Kenya at the invitation of IGAD and Ministry of State for Special programmes
24 – 25 2012	July Participated in Partners' Consultative Meeting on "Strengthening Water resources management in the Tana Basin: Integrated Water Resource Management in the Tana River Basin, 24 – 25 July 2012, Green Hills Hotel, Nyeri, organized with the support of the United Nations Environment Programme and the Nature Conservancy.
2002 - Present	Kenyatta University Examination Board Member to various Kenyatta University Master and PhD Thesis defense meetings.
2005 - Present	Member of the Kenya National Platform for Disaster Risk Reduction, Office of the President, Ministry of State for Special Programmes, - involved in the development and review of the National Disaster Management Policy.
May 2008	Recognized for contribution towards the university attainment of ISO 9001:2000 Certification by the Vice Chancellor, Kenyatta University
Various dates in 2003	Resource person during the Urban Rivers Symposium and in the preparation of Phase III Proposal for Management of Nairobi Rivers, Nairobi, Kenya, Organized by UNEP RAO and NCBDA - Management of Urban rivers.
28th June 2007	Invited Guest speaker to Lukenya School on "How to Take care of Environment", Lukenya School, Athi River, Kenya.
2005/2006	NEMA Committee member for the evaluation of Global Environment Facility (GEF) project proposals.
24th – 25th May 2005	Invited guest speaker during the Integrated Environmental Management Workshop and Sensitization of Policy Makers and Chief Officers from the Municipal Council of Nakuru, Organised by Intermediate Technology Development group (ITDG): <i>The role of Environmental Management Systems and Geographic Information System in Resources Planning and Management</i> ' - Great Rift Valley Lodge, Nakuru.

May 2005	Invited by Friends of the Nairobi National Park to Evaluate and report on the Environmental Impact report of Jamii Bora on housing Development in Kisaju area, Kajiado, Nairobi National Park, Nairobi, Kenya.
March – May 2005	Member of the Task Force for the Preparation of Mainstreaming of the National Action Programme to Combat Desertification into the National Development Framework. Prepared the Kenya Country Inception Report that was presented to UNCCD Secretariat.
14-29th April	Recognised for participation as an actor in the real life drama “Heaven’s Gates and Hell’s Flames at the Nairobi Pentecostal Church, Nairobi.
Jan. – Nov 2001	Completed a course on the Fundamentals Christian Doctrine, Nairobi Pentecostal Church, Nairobi.
Oct. 1998	Was part of the team that developed the Nakuru Strategic Plan within the Localizing Agenda 21: Action Planning for Sustainable Urban Planning.
31st July 1998	Invited Public Lecture: “The El-Nino Aftermath from a Business Perspective, the need for a GIS database”. Kenya Institute of Management (KIM), Nakuru, Kenya.

11.3 INTERNATIONAL RECOGNITION AND SERVICE

22nd July 2015	<p>Awarded Special Achievement in GIS (SAG-2015) Award for championing and institutionalising use of ArcGIS Tools and spatial knowledge at Kenyatta University, 22nd July 2015 at San Diego Convention Centre during annual Esri International User Conference and presided over by Jack Dangermond, the president and founder of Esri.</p> <p>Esri Honour 188 SAG Winners chosen from tens thousands of Organizations that Use GIS to Improve Our World and set new precedents throughout the GIS community.</p> <p>http://events.esri.com/conference/sagList/?fa=List&awardyear=2015</p>
28th – 30th April 2014	Invited as a speaker at the Comparative Research Networks (CRNs) workshop of Council for the Development of Social Science Research in Africa (CODESRIA) for 2013 project awardees, Kenyatta University Conference centre, Nairobi Kenya
1st - 14th April 2014	Honoured by NASA SERVIR’s My Community Our Earth (MYCOE/Servir) Capstone Fellowship Program for Mentoring (Susan Malaso Kotikot) and guidance on the Capstone projects and presentations demonstrating the power of spatial data and Geographic thinking in a developing region; 1 st – 12 th April 2014, Washington, DC and Tampa Florida, USA. Funded by NASA through USAID and facilitated by Association of American Geographers (AAG).

17th -21st Feb 2014	Invited Keynote Speaker on the topic <i>“Impacts of Raise Water Levels in the Rift Valley Lakes”</i> during <i>“Training Workshop on Geographical Information Systems (GIS) on Hydrology and Water Resource Management”</i> . Organized by the School of Engineering and Technology, Kenyatta University in collaboration with the Institute of Water Management, Hydrology and Hydraulic Engineering, University of Natural and Life Sciences (BOKU) Vienna, Austria. Supported by the Commission for Development Studies, Austria.
26th – 27th November 2013	Invited as part of the committee of the pre-selection of Sudan DAAD Scholarship applicants which took place in Khartoum on 26 th – 27 th November 2013. Supported by DAAD.
13th – 15th Feb., 2013	Invited discussant on the Kisumu Mapping Experience during the 4th Africa Regional Platform on Disaster Risk Reduction: Protect Development Gains and Build Resilience of African Nations. Ngurdoto Mountain Lodge, Arusha, Tanzania
July 2011 – October 2011	Invited as a reviewer and participated in the Development of Curriculum for the Pan African University Earth and Life Sciences Institute (PAU-ELSI) Program at Faculty of Social Sciences, University of Ibadan, Nigeria, in Disaster Risk Management for the Commission of the African Union.
2006 – 2010 CHEMICAL	<p>Team leader and Chair of 15 Research project teams for “Pollution/Heavy Metals Cluster” of the Lake Victoria Research (VICRES) Initiative Projects managed by the Inter University Council of East Africa (IUCEA) and funded by SIDA/SAREC under the theme <i>“Integrated risk assessment and management of pollutants in Lake Victoria Basin”</i>. Coordinated, prepared and presented for the cluster 3 position papers during the VICRES’2007, VICRES’2008, and VICRES’2009 Annual Forums.</p> <ul style="list-style-type: none"> • Developing Regional Systems for sweet potato planting material supply and pollution mitigation (Nsumba <i>et al</i>, 2004). • Environmental lead pollution and food safety in the Lake Victoria Basin. (Makokha <i>et al</i>. 2006). • The Investigation of Mercury (Hg) and Radioisotopes (U-38, K-40) Levels, and Assessment of their Socio-Economic impacts on Communities around selected wetlands in the Victoria basin: the case of Uganda and Kenya (Gor, <i>et al.</i>, 2003). • Impact of Mining and other Human Activities on Heavy Metal Loading and their Physico-Chemical Effects on Wetlands of Lake Victoria Basin (Ikingura, <i>et al.</i>, 2003).
PHYSICAL	<ul style="list-style-type: none"> • Pollution in Mara River Basin: Wetlands as a means trapping sediments. (Mtalo, <i>et al.</i>, 2003). • Evaluation of Potential Land Use/Cover types as Sediment Filters on the Lake Victoria Shoreline (Kimaro, <i>et al</i>, 2004). • The Potential of Satellite Imagery, and Policy and Institutional Frameworks in Addressing Sustainable Utilization and Management of Watershed Resources in LVDB (Onywere, <i>et al.</i>, 2004). • The cycling and distribution of trace elements in the Simiyu and Nyando wetlands. (Henry, <i>et al.</i>, 2003). • Modelling of non-point source pollution in Lake Victoria Basin. (Banadda, <i>et al.</i>, 2007).
BIOLOGICAL	<ul style="list-style-type: none"> • Investigating the Effect of Pollution on the Levels of Omega-3 Polyunsaturated Fatty Acids (PUFA) in Commercial Fish Species (Ogoyi, <i>et al.</i>, 2007).

	<ul style="list-style-type: none"> • Use of Bioassay Technique for Monitoring of Mercury from Small – Scale Gold mining in the Lake Victoria Basin (Chibunda, <i>et al.</i>, 2006). • Greywater treatment and reuse for agricultural production and environmental protection (Kotut, <i>et al.</i>, 2007). • Water quality and its impact on fish abundance and socio-economic. (Mwanuzi, <i>et al.</i>, 2007).
26th - 28th August 2008	Invited by the International Network for Capacity Building in Integrated Water Resources Management (CAPNET), a project managed by UNDP and funded by the Dutch Government and UNDP as an Internal Evaluator (Local Peer Reviewer) for Nile IWRM-Net Country Coordinators' Planning Meeting and Opportunity Assessment for Capacity Building for IWRM in the Nile Countries, Nairobi, Kenya.
24th – 25th Nov. 2005	Invited Keynote Speaker during the 3rd Uganda Society Science Conference on “Conserving Water, Wildlife, Wetlands and Agro-Biodiversity for Sustainable Development in the Lake Victoria Basin”. Gave a talk on “ <i>Rapid Population Growth, Urbanization and Implications on the Wetlands and Water Resources with Special Emphasis on Nzoia River, Nakivubo Channel and Simiyu River Basin</i> ” - Uganda Museum, Kampala, Uganda.

12.0 ACADEMIC LEADERSHIP

September 2012 – April 2014	Mentored Susan Malaso Kotikot (REG.NO: N36/2281/2009), Department of Environmental Planning and Management Department, Kenyatta University in the 2012 MyCOE (My Community Our Earth) SERVIR Initiative in East Africa for the Global Fellowship Program hosted at the Regional Centre for Mapping of Resources for Development (RCMRD). Project Title: “Application of GIS and Remote Sensing to Frost Risk Mapping for Improved Agricultural Productivity in the Aberdare ecosystem (Nyeri, Kiambu, Nyandarua and Murang’a Counties), Kenya”. Funded by NASA through USAID and facilitated by Association of American Geographers (AAG)
July 2012	Participated in the DAAD In-Country Scholarships Pre-selection, Nairobi, Kenya.
2010 - Present	Invited Journal Articles reviewer for African Journal of Agricultural Research www.academicjournals.org/ajar (reviewed 4 articles).
July 2010	Participated in the DAAD In-Country Scholarships Pre-selection, Nairobi, Kenya.
July 2008	Invited Journal article reviewer for <i>Chemichemi, the International Journal of the School of Humanities and Social Sciences, Kenyatta University</i> .
2007	EDULINK Co-Researcher and partner in the Training on the Research Framework Programme of the European - Capacity Building for Integrated Watershed Management in Eastern Africa (IWMnet) (www.IWMnet.eu) funded by the European Water facility, that established the Integrated Watershed Management (IWM) postgraduate Programme (Master of Science in Watershed Management (MWM)) at Kenyatta University. In collaboration with University of Dar Es Salaam, Makerere University, Kenyatta University and University of Seigen.

Feb. 2006	Was invited by the National Geographic Society (NGS) as an Online Reviewer to a proposal.
2006	Co-Researcher and partner in the University Capacity Development for Integrated Sanitation Management in Eastern Africa (UNCDISM) (www.UCDISM.eu) with the following Specific objectives: <ul style="list-style-type: none"> • Establish an International postgraduate Master programme in ISM at Kenyatta University. • Upgrade all partner universities capacity through regional knowledge transfer and training professionals in ISM. • Strengthen and expand research capacity in the sanitation sector in the region. • Provide postgraduate training and advisory services and research support to sanitation sector NGOs, CBOs and projects in the region.
2004 (1st – 2nd Nov.):	Participated in discussion on Standard GIS and Remote Sensing curriculum for undergraduate and graduate students at our National Universities, Regional Centre for Mapping of Resources for Development (RCMRD), Nairobi, Kenya.
2001, May	Invited Journal article reviewer for the <i>Eastern Africa Journal of Humanities and Social Sciences</i> .
1998 (Sept.) – 2000 (Dec):	Involved in development of Geography learning material for the Distant Learning Education programme for the Armed Forces of Kenya, Egerton University, Kenya. <i>MILS 0025: Map Reading and Practical Geography - Diploma Course and Mils 0029 – Geography – Certificate Course.</i>

13.0 MEMBERSHIP AND ASSOCIATION WITH RESEARCH NETWORKS

April 2010 – May 2015	National Chairman, the Kenya DAAD Scholars Association (An association of DAAD Alumni in Kenya)
1992 - Present	Member, Geological Society of Kenya (GSK).
Sept 2006 - Present	Member, Regional Eastern Africa DIES Alumni Networking (REAL), Networking for Quality in Higher Education.
2008 - Present	Member, Water Capacity Building Network (WaterCap) Capacity Building for Multi-Disciplinary, Multi-sectoral and Holistic Approaches for Sustainable, Equitable, Economical and Efficient use of water.
2006 – April 2010	Secretary General, Kenyatta University Chapter of the Kenya DAAD Scholars Association (KDSA) – Member, East Africa Geoscience Network.
2008 to 2014	Board member, Board of Governors (BoG) Ekwere Secondary School Board of Management

2004 to August 2013	<p>Board member, Board of Governors (BoG) Nyanturago Secondary School Board of Management</p> <p>Member, EIS-AFRICA, a Network for the Co-operative Management of Environmental Information</p> <p>Member, Friends of the Nairobi National Park (FoNNaP)</p> <p>Member, The UN University Network for Disaster Risk Reduction in Africa (UNeDRA)</p>
2007 - 2009	<p>Member of the Quality Assurance Committee of Kenyatta University</p>


REFEREES

<p>Dr. Hussein O. Farah Director General, Regional Centre for Mapping of Resources for Development (RCMRD), P.O. Box 632-00618, Nairobi farah@rcmr.org 0722872639</p>	<p>Prof. Chris A. Shisanya Dean, School of Humanities and Social Sciences, Professor, Department of Geography Kenyatta University, P.O. Box 43844 Nairobi shisanya.chris@ku.ac.ke shisanya@yahoo.com 0722312767</p>	<p>Prof. Justus O. Barongo Associate Professor, Department of Geology University of Nairobi P.O. Box 30197-00100, Nairobi jbarongo@uonbi.ac.ke justusbarongo@yahoo.com m 0722756598</p>	<p>Prof. Joy A. Obando Director Kenyatta Financial Aid Programme Associate Professor, Department of Geography Kenyatta University P.O. Box 43844 00100 Nairobi obando.joy@ku.ac.ke, obandojoy@yahoo.com 0722966134</p>
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CERTIFICATION

I, the undersigned, certify that to the best of my knowledge and belief, the Biodata presented in this CV correctly describe me, my qualifications, and my experience, and that I am able to work on the assignments related to my qualifications and experience.

Date: 23rd June 2016: Nairobi

Signature --  -----
Prof. Simon M. Onywere

