

# Curriculum Vitae

## Monica A. Omulo

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**Address / Contacts** School of Environment and Earth Sciences  
Maseno University  
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**Maiden Name** Monica A. Ngwalla  
**Date of Birth** May 1958  
**Nationality** Kenyan  
**Marital Status** Widow and Mother of 3

**Research and Teaching** My Research Interests Focus on the Interaction of Nature and Society, including the Human Dimensions of Climate Change; Geosites In Kenya. My Current Project Focuses on Impacts of Climatic Changes on Lake Levels; and Environmental Impact of Mining Activities in L. Victoria Basin and E-Waste Management.

I teach Masters and Undergraduate students in areas of: Pollution Control, Environmental Impact Assessment, Strategic Environmental Assessment, Environmental Auditing, Environmental Disasters Mitigation and Management, Energy and Environment, Solid Waste Management.

**Areas of Competence:**

- Hydrogeology
- Geosites
- Environmental Impact Assessment and Environmental Auditing
- Strategic Environmental Assessment
- Environmental disasters mitigation and management
- Water resources conservation and management
- Climate change, mitigation and adaptation
- Solid waste management

**Education**

- Master of Philosophy in Environmental Science of Lancaster University, UK. Topic: A study of the effects of Flue Gas Desulphurisation on the UK coal-fired power stations: A paradox in environmental control. (1992).
- Master of Science in Environmental Science of Lancaster University, UK. Topic: A preliminary study of problems associated with opencast coal

mining and their potential effects with special reference to the proposed Lostrigg opencast site, Workington, UK (1989).

### **Post-Graduate Training**

- Bachelor of Science (geology major) – University of Nairobi, Kenya (1981)
- Geoconservation and Geoparks – Short-course, El Jadida, Morocco – 20 November 2011.
- World Heritage Regional Workshop for Anglophone Africa - for cultural and natural heritage professionals under the World Heritage Capacity Building Project, financed by the Swiss Government, held at the Centre for Heritage Development in Africa (CHDA) in Mombasa, Kenya, from 19th to 24th September 2011
- IGCP in Africa Workshop on skills development in preparing project applications 26-28 July 2011, UN Complex, Gigiri, Nairobi Kenya, Supported by: UNESCO and the Swedish International Development Agency (SIDA)
- Image Analysis and Remote Sensing Techniques ( three weeks 2002), Nairobi, Kenya
- Geo-medicine and Short Course on “Metals, Health and the Environment (one week 2001), School of Mines - University of Zambia, Lusaka, Zambia.
- International Workshop on Geo-indicators (two days 2001), School of Mines - University of Zambia, Lusaka, Zambia.
- Short Course on Modern Approaches to Ore and Environmental Mineralogy, (one week 1999), Council for Geosciences, Pretoria, South Africa
- Research and Innovation Management (two weeks 1992), Russian Academy of Sciences, Moscow, Russia.
- Soil Physics (three weeks 1989), International Centre for Theoretical Physics, Trieste, Italy.
- Collection, Presentation and Interpretation of Groundwater Data (three weeks 1987) Institute of Applied Geosciences of the Netherlands (TNO - DGU), Nairobi, Kenya
- Water and Air Protection and the Problems of Utilization of Wastes, (one week 1985) Ukrainian Academy of Sciences, Institute of Colloid and Water Chemistry, Kiev, USSR.
- Water Resources Engineering, (four months 1985), Institute for Water Resources Development, Belgrade, Yugoslavia.
- Remote Sensing for Water Resources Assessment (three weeks 1984), Regional Centre for Services in Surveying, Mapping and Remote Sensing, Nairobi, Kenya.
- Use of Computers in Water Resources Planning and Development, (three weeks, 1983, UN Department of Technical Co-operation for Development, Lake Basin Development Authority, Kisumu, Kenya.

## Employment

- Current (June 2000 to date) - Lecturer, School of Environment and Earth Sciences (Environmental Studies), Maseno University.
- 1998 – 2000 - Research and Programmes Officer, Climate, Environment and Development Action Network - Kenya (CEDAN-K)
- 1995 – 1998 - Research and Programmes Coordinator - Climate Network Africa (CNA). CNA is a non-governmental organization started in 1991 in Kenya with a focus on climate change research, policy and advocacy issues.
- 1988 - 1995 - Research Officer I/Senior Research Officer - Ministry of Research, Science and Technology,
- 1981-1988 - Geologist/Hydro-geologist - Groundwater Division, Ministry of Water Development.

## Positions Held

- **Coordinator** (2012 to date ), Nyanza Regional Center of Expertise (RCE) on Education for Sustainable Development
- **Coordinator** (2012 to date) Education for Sustainable Development, Maseno University
- **Member** (2012 to date), Environmental Sustainability Committee (ESC) of Maseno University
- **Coordinator** (2000 - 2004) Timetable and Examinations, Department of Environmental Science
- **Coordinated in** 2005, the Short Course on EIA and EA from NEMA
- **Lecturer** (2000 - ), School and Environment and earth Sciences
- **Guest Lecturer** (2000), Tropical Institute for Community Health and Development (TICH) Currently Great Lakes University
- **Research and Programmes Officer** (1998 – 2000), Climate, Environment and Development Action Network (CEDAN-K), a local NGO in Kenya
- **Research and Programmes Coordinator** (1995 – 1998), Climate Network Africa (CNA), a non-governmental organization
- **Senior Research Officer** (1988 – 1995), Ministry of Research, Science and Technology, Kenya
- **Geologist/Hydro-geologist** (1981-1988), Groundwater Division, Ministry of Water Development

## Articles and Book Chapters

### (I)Books

- Mitullah, W.V., Ogola J.S. and **M.A. Omulo**, 2003: “The Socio-economic Aspects of Artisanal Gold Mining in the Migori District, Kenya” in The Socio-economic Impact of Small-Scale Mining in Developing Countries. Edited by Gavin M. Hilson, Imperial College Science, Chapter 16.
- Ogola, J.S. and **M.A. Omulo** 1997. Energy resources: In Potential Impacts of Climate Change in Kenya. in the Impact of Climate Change in Kenya. Edited by J.S. Ogola et al. Published by Climate Network Africa, Nairobi, Kenya Chapter 3.

## **(II)Papers in Local/International Peer Reviewed Journals/Publications**

- Awange, J.L., L. Ogalo, B. Kwang-Ho 1P. Were, and P. Omondi, P. Omute, **M.A. Omulo**, (2008). Falling Lake Victoria Water Levels: Is Climate a Contributing Factor? Springer DOI 10.1007/s10584-008-9409-x, pp 1-20.
- Awange, J.L., L. Ogalo, **M.A. Omulo**, P. Were, and P. Omondi (2007) Falling Lake Victoria Water Levels: Are Droughts a Contribution Factor? Journal of Climate
- Awange, JL, Sharifi MA. **Omulo M.A.**, and Grafarend E. (2006): The Falling Lake Victoria Water levels: A GRACE Satellite Analysis of the Lake Basin. Water Resources Management 0000:001-9, Pp 1-9
- Ogola J.S., W.V. Mitullah and **M.A. Omulo** 2002. Impact of Gold Mining on Environment and Human Health. A case study in the Migori Gold belt, Kenya. Journal of Environmental Geochemistry and Health, 24: 141-158, Kluwer Academic Publishers, Netherlands.
- Ogola J.S. and **Omulo, M.A.** 1998. Energy Use in Kenya: Advancement of Alternative Energy Sources to Mitigate Climate Change Through Activities Implemented Jointly. In GreenHouse Gas Mitigation: Technologies for Activities Implemented Jointly (Edited by P.W.F. Riemer, A.Y. Smith and K.V. Thambimuthu), pp. 103 – 108, Pergamon.
- **Omulo M.A.** 1998. Potential Areas for AIJ Projects in Kenya. In GreenHouse Gas Mitigation: Technologies for Activities Implemented Jointly (Edited by P.W.F. Riemer, A.Y. Smith and K.V. Thambimuthu), pp. 725 – 731, Pergamon.
- Ogola, J.S. and **M.A. Omulo**, 1993. The geology and marine resources of the coastal region of Kenya. Workshop paper: Urban and regional Planning of Mombasa and the Coastal Region, Kenya. Published in African Urban Quarterly.

## **(111)Papers in Conference Proceedings / Seminars and Invited Lectures**

- Omulo, M.A. 2018** - Women, Climate Change and Development in Africa at the First International Congress on Geosciences / Joint Congress /of CAAWG9/ AIC2/ ICGAME3, 20-24 March 2018, El Jadida - Morocco
- **Omulo, M.A. 2016** Women, Climate Change and Development in Africa: The Case of Kenya. Keynote address at the 8th AAWG Conference organized for the first time out of the African continent. Theme: *Building bridges between Earth Scientists Worldwide: A Way for Promoting Peace and Strengthening Integration* Sibiu, Romania, 1-7 October 2016.
  - **Omulo, M.A. 2014** Potential Geo-parks sites in Kenya. A paper presented at the 7<sup>th</sup> Conference of the African Association of Women in Geosciences (AAWG 7) Windhoek, Namibia, held from 3<sup>rd</sup> – 9<sup>th</sup> November 2014 in Windhoek, Namibia
  - **M.A. Omulo 2013:** Geoheritage and geosites in Kenya. Potential for

geoconservation, geoparks development and geotourism, Nairobi, Kenya

- Ezzoua Errami, Béatrice Tandia, **Monica Omulo**, and Tea Juliette (2014). Geoheritage and Geoparks in Africa and the Middle-East: challenges and perspectives. A paper presented at 7<sup>th</sup> Conference of the African Association of Women in Geoscience (CAAWG7) held from 3<sup>rd</sup> – 9<sup>th</sup> November 2014 in Windhoek, Namibia
- **Omulo M.A. 2012**. Potential for Geoparks in Kenya. A paper presented at the 6<sup>th</sup> AAWG Conference (CAAWG), held from the 23<sup>rd</sup> - 27<sup>th</sup> April 2012 in Yaoundé, Cameroon.
- Ogola, J.S. and **Omulo, M.A. 2010**. Impacts of Climate Change in Kenya. A Paper presented at the 5<sup>th</sup> Conference of the African Association of Women in Geosciences (CAAWG5) “Women and Geosciences for Peace” 11 – 17 April 2010, Grand Bassam, Côte d’Ivoire
- **Omulo M.A 2008**. Lake Victoria Water Levels Variations: What are the Causes and Impacts? A paper presented at the 4<sup>th</sup> International Conference of the Association of African Women Geoscientists (AAWG) Cairo, Egypt, 14 – 16 April 2008. Theme: “Women and the International Year of Planet Earth”
- **Omulo M. A. 2008**: Medical Geology - Why the Study is Important. A paper presented at the 4<sup>th</sup> Conference of the Association of African Women Geoscientists “Women, Geosciences & Development” Cairo, Egypt, 14<sup>th</sup> – 16<sup>th</sup> April 2008
- **Omulo M. A. 2006**: Recent Water Level Fluctuations of Lake Victoria and its Impact on the Livelihoods. Poster presented at the 3<sup>rd</sup> Conference of the Association of African Women Geoscientists “Women, Geosciences & Development” 4 - 13 May 2006 El Jadida, Morocco
- **Omulo M.A. 2006**. “Women in Geosciences” - Keynote Address on the occasion of the 3<sup>RD</sup> Conference of the Association of African Women Geoscientists held from 4-13 May 2006 in El Jadida, Morocco
- Abuodha P. , B.H.O. Okall and **M.A. Omulo 2006**: Modern Mega Flooding In Western Kenya, Lake Victoria Basin: Budalangi and Nyando Case studies. Paper presented at the workshop on how to identify Mega-Floods in Paleo-records: The Impact of Mega Flood Events, Bobole, Mozambique. Bulletin of the National Directorate of Geology.
- **Omulo M. A. 2004**. Overview of AAWG - Keynote Address on the Occasion of the 2<sup>nd</sup> Biennial Conference of the Association of African Women Geoscientists held in Kampala, Uganda, 25<sup>th</sup> – 27<sup>th</sup> October 2004 as the President of the Association of African Women Geoscientists. Conference theme: “Enhancement of Geosciences for Environment Awareness, Poverty Alleviation and Sustainable Development”.
- **Omulo M.A. 2004**: Impacts of Floods in the Nyando District of the

Lake Victoria Basin, Kenya. A paper presented at the 2<sup>nd</sup> biannual conference of the Association of African Women Geoscientist held in Kampala Uganda.

- **Omulo M.A. 2003.** Natural Disaster and Early Warning: The Role of NGOs. In the Natural Disaster Warning Systems. J. Zschau and Andreas Kuppers (Eds) International IDNDR – Conference on Early Warning Systems for the Reduction of Natural Disasters (19’98 Potsdam, Germany), Chapter 1.5 pp 33-36.
- **Omulo M.A 2002.** Keynote speech- Women Geoscientists: Past Achievements and Future Challenges. On the occasion of the First Open Conference of the Association of African Women Geoscientists held from 22 – 24 October 2002 in Cape Town South Africa as the president of the Association of African Women Geoscientists.
- **Omulo, M.A. 2001:** Heavy Metals and Human Health (a poster). Conference on Geomedicine and Short Course on “Metals, Health and the Environment” at the School of Mines - University of Zambia, Lusaka, Zambia..
- **Omulo M.A. 1999.** Environment and health Effects of Artisan Gold Mining in the Migori District, Kenya. A Poster presented at the 11<sup>th</sup> International Conference of the Geological Society of Africa – Earth Resources for Africa, Cape Town, South Africa.
- **Omulo M.A. 1997:** (Editor the proceedings for Climate Network Africa): Political and Practical Constraints to the Acceptability of Joint Implementation under the UNFCCC in Kenya" Nairobi, Kenya.
- **Omulo, M.A. 1996.** Status of women geoscientists in Kenya: The role of education and training in Geoscience Education and Training in schools and universities, for industry and public awareness. AGID Special Publication Series, No. 19, pp775 - 781.

#### **(IV) Technical Reports and Professional Papers**

- Report on the “International Mineralogical Association Commission on Ore Mineralogy on Short Course on Modern Approaches to Ore and Environmental Mineralogy and MINSAs Mini-symposium” to – UNESCO. 1999
- An Integrated Artisan Gold Mining Management in the Migori District, Kenya ” to the Donor – Royal Netherlands Embassy, Nairobi. 1999
- Report on Inventory of Greenhouse Gases from Landuse Change and Forestry: UNDP/GEF Capacity Building in Sub-Saharan Africa to Respond to the United nations Framework Convention on Climate Change. 1998.
- "Traditional dietary staples: key to food security in Africa" in Climate Network Africa publication, **IMPACT** No. 20, pp7, 8 & 10. 1996
- "Activities Implemented Jointly under the United Nations Framework Convention on Climate Change - Workshop report: "in Climate Network Africa publication, **IMPACT** No. 22, pp7, 11, 12 and

13. 1998

- "Update on desertification talks" in Climate Network Africa publication, **IMPACT** No. 18, pp17 & 19. 1996
- "Report on the Commission on Sustainable Development" in Climate Network Africa publication, **IMPACT** No. 19, pp13-15. 1996
- "Joint Implementation: A step back in Northern Commitments to the UNFCCC" in Climate Network Africa publication, **IMPACT** No. 15, back page 1995.
- "Update on Desertification Convention: Conference of the Parties Pushed to 1997" in Climate Network Africa publication, **IMPACT** No. 16, pp11 & 15. 1995
- "The ozone hole or food security. A question of putting the cart before the horse?" in Climate Network Africa publication, **IMPACT** No. 17, pp13 & 17. 1995

**Research Grants  
and  
Awards:**

- AAWG Award: Received the Best Association of the year award 2018 by the African Associations Award, October 2018 in Pretoria, South Africa
- Research counterpart: Sexual maturation: A case study of the Luo community, 2002 – 2003: Funded by Rockefeller Foundation
- Research counterpart: Study of the cultural practices that enhance natural resources conservation in the Lake Victoria region, Kenya, 2002. Funded by RELMA.

**Selected  
Consultancies,  
Other Professional  
Activities, &  
Community  
Service:**

- 2016 Environmental Assessment of Siaya Solar photovoltaic project in Siaya County
- 2015 Environmental Monitoring for Construction Works for Bondo Siaya Water Supply & Sanitation Project
- 2014: Environmental Monitoring for Construction Works for Bondo Siaya Water Supply & Sanitation Project
- 2014: Environmental Impact Assessment (EIA) of the Proposed Reprocessing of Macalder Tailings in Migori County, Kenya
- 2013: Environmental Impact Assessment (EIA) Miranga Guest House, Kisumu
- 2011: Environmental Impact Assessment (EIA) of Nyikwa Buogi Guest House in Kisumu
- 2010: Development of a Metadatabase of Existing Documents Relevant to the Water Sector Development and Management – Gucha-Migori River Basin, Kenya, Nile Basin Initiative, 2010 as an associate researcher

- 2009: Supervisor of a Research Paper, by Charles Gatuma Maina on “Geological Sites And Landscapes in the Naivasha Area” Department of Geology, University of Nairobi
- 2006: Environmental Impact Assessment of Osienala Cosmer-Lav project
- 2005: Environmental Impact Assessment of Mamboleo Solid Waste landfill
- 2005: Environmental Impact Assessment of Mbale Petrol Station
- 2004: Initial Environmental Audit of Molasses Plant at Otonglo in Kisumu
- 2003: Environmental Impact Assessment of the Yala Wetland due to proposed rice scheme development
- 2004: Nyando River Basin Stakeholders and Status Diagnostic Survey (OSIENALA)
- 2004: The Gender Profile and Implications In Poverty Among Communities Around The Lake Victoria Region. A Diakonia Victoria Development Program (Kenya)
- 2004: Small Scale Community Wind Pump Irrigation Scheme in Ngura, Homabay District, Nyanza Province, Kenya: An Environmental Impact Assessment Study - UNDP
- 2004: Environmental Impact Assessment of Fly Manufacturing Plant in Kericho
- 2002 – 2003: Sexual maturation: A case study of the Luo community. Funded by Rockefeller Foundation
- 2002: The study of the cultural practices that enhance natural resources conservation in the Lake Victoria region, Kenya. Funded by RELMA.
- 1999: Reviewer of the report on “Impacts of Hydrology and Climate Changes on Biodiversity” - A GEF-Rift Valley Lakes Biodiversity Project (Kenya)
- 1999: “An Integrated Artisan Gold Mining Management in the Migori District, Kenya” A Case Study in the Migori District.
- 1998: Inventory of Greenhouse Gases from Landuse Change and Forestry under the UNDP/GEF Capacity Building in Sub-Saharan Africa to Respond to the United nations Framework Convention on Climate Change.
- 1995: "Energy and Environmental Interaction - Kenya Country Survey" for the African Development Bank (ADB). Joint consultancy with Prof. Okech, Prof. Obara and Mr. Nyoike).
- Recipient of several fellowships including NORAD (1988-1989), British Council (1991), Scholarly cash award for recognition as one of the first two Kenyan women to study Geology from Swedish Embassy (1980), Osienala (Friends of Lake Victoria)-SIDA.
- Served as Environmental Consultant for various organizations, including the UNDP), African Development Bank, Osienala and many local organizations in Kenya.



- Reviewer of the report on “Impacts of Hydrology and Climate Change on Biodiversity” Rift Valley Lakes Biodiversity Project, Kenya - A GEF project.
- Principal researcher in the compilation of data on: The Gender Profile and Implications In Poverty Among Communities Around The Lake Victoria Region, 2004. A Diakonia Victoria Development Program, Kenya.

### **University Service**

- Coordinated Maseno University tree Planting Day on 2 June 2016
- Coordinated in collaboration with Suswatch Kenya a public talk held on 2<sup>nd</sup> June 2016 at Maseno University Board Room on “A 'World In Transition' - Renewable Energy and Ethics for the Future.” Speakers were Dr. Dorcas Alusula , of Brahma Kumaris University in India, Dr. Joachim Golo Pilz (Advisor renewable energy from Germany) and the other from Denmark.
- Coordinated Maseno University Clean up Day on 12 December 2015 with members of the Environmental Sustainable Committee
- Member of the Division of Partnerships, Research and Innovations since 2015
- Developed a proposal and awarded 1.0 Million by NEMA for Electronic Waste Management – Developing a System for Collection, Reuse and Recycling of PCs in February 2015.
- Drafted the following Policies for Maseno University:
  - a. Environmental Policy
  - b. Policy of Education for Sustainable Development
  - c. Policy for Solid Waste Management
- Coordinated, World Environment Day held at Maseno University on 5<sup>th</sup> June 2013.
- Member of the Environmental Sustainable Committee since 2012
- Coordinator of Education for Sustainable Development since 2011
- Timetable and Examination coordinator of the Department of Environmental Studies in the Faculty of Science, Maseno University, 2000-2005.
- Coordinated development of the EIA and EA short course of the School of Environment and Earth Sciences, Maseno University, in 2006.
- Teaching: Courses taught at undergraduate level include Energy and Environment; Introduction to Meteorology; Atmospheric Pollution Chemistry; Environmental Impact Assessment; Environmental Auditing; Water Quality Monitoring and Remediation; Environmental Toxicology; and Environmental Disasters and Mitigation.
- Supervising undergraduate students research projects
- Initiated a collaboration between Maseno University and Mälardalen Högskola University in Sweden which ended up in an MoU between

the two institutions in 2002, following my attendance of the 3<sup>rd</sup> International Conference (Envisions) and Workshop On Sustainable Development of the Great Lake Regions in Västrås, Sweden in September 2001.

**MSc Courses taught since 2005:**

- Urban Environmental Management Issues; Solid Waste Management; Strategic Environmental Assessment Environmental Impact Assessment and Auditing; Environmental Protection and Conservation

**International /  
Local  
Responsibilities**

- Fellow of the Geological Society of Kenya since March 2011
- Member of the Council Geological Society of Africa (representing Eastern Africa) for the next four years (2008-2012); Member of the Geological Society of Africa, since 1999.
- Member of the Catchment Area Advisory Committee (CAAC) of the Lake Victoria South Water Resources Management Authority (WRMA) of the Ministry of Water and Irrigation, 2005 to date. Currently Chairperson of the CAAC.
- Technical Committee Member of the Sondu-Miriu Hydropower Project of the KENGEN, from 2007 – 2008;
- Chair of the Technical Sub-Committee on Environment of the Sangoro hydropower project 2009-2011.
- Member of the National Advisory Committee of SANREM-CRSP Project of the Kenya Forestry Research Institute, 2006 - 2009
- Founder and the first President of the Association of the African Women Geoscientists (AAWG), 1995 – 2004; Vice-President of the Association of the African Women Geoscientists (AAWG), 2004 to 2008; East African representative in the Governing Council 2009 to date.
- Life member of the Association of Geoscientists for International Development (AGID), since 1993.
- Consultant on Environmental Issues of OSIENALA (Friends of Lake Victoria) - 2006 to date. Board member 1995- 2009.
- Professional Member of the Geological Society of Kenya (GSK) since 1982; Executive Member of the Geological Society of Kenya. 1997 – 1999; Assistant Treasurer of the GSK from 1986-1987 and 1994 - 1995; Treasurer of the Geological Society of Kenya (GSK). 1995 - 1997; Assistant Secretary of the Programs Committee of the GSK from 1986-1987.
- Graduate member of the Institute of Water and Environmental Management, United Kingdom 1989 - 1994.
- Research Associate with the African Centre for Technology Studies (ACTS), 1993-1995
- Member of the Kenya Professional Association of Women in Agriculture and Environment (KEPAWAE), 1996 to date

- Member of the Soroptimist Club of Kisumu, 2004 to date
- Membership Of Learned Societies & Professional Bodies**
- Fellow of the Geological Society of Kenya
  - Member of the Environment Institute of Kenya (EIK)
  - Lead EIA/EA Expert Reg. No. 0150
  - Member of the Council Geological Society of Africa (representing Eastern Africa) for the next four years (2008-2012).
  - Member of the Geological Society of Africa, since 1999.
  - Founder and President of the Association of the African Women Geoscientists (AAWG), 1995 – 2004
  - Member of the Governing Council of the Association of the African Women Geoscientists (AAWG), 2004 to date; also representative of Eastern African Chapter.
  - Life member of the Association of Geoscientists for International Development (AGID), with Headquarters in Sao Paulo, Brazil, since 1993.
  - Professional Member of the Geological Society of Kenya (GSK) since 1982; Executive Member of the Geological Society of Kenya. 1997 – 1999; Assistant Treasurer of the GSK from 1986-1987 and 1994 - 1995; Treasurer of the Geological Society of Kenya (GSK). 1995 - 1997; Assistant Secretary of the Programs Committee of the GSK from 1986-1987.
  - Graduate member of the Institute of Water and Environmental Management, United Kingdom 1989 - 1994.
  - Research Associate with the African Centre for Technology Studies (ACTS), 1993-1995
  - Member of the Kenya Professional Association of Women in Agriculture and Environment (KEPAWAE), since 1996 to date
- Extra Curricula Interests**
- Nature Conservation and Preservation of Global Environmental Integrity
  - Sports (Athletics, Volleyball, Tennis)
  - Drama
  - Music
- Professional Affiliations:**
- Licensed Lead Expert in EIA and Environmental Auditing by the National Environmental Management Authority (NEMA-Kenya) NO. 0150
  - Member of Catchment Area Advisory Committee (CAAC) of WRMA Lake Victoria South Catchment October 2005 to 2011.
  - Chair of Catchment Area Advisory Committee (CAAC) of WRMA Lake Victoria South Catchment from 2008 to 2011.
  - Member of Board of Governors of St. Antony Dago Kokore Secondary School 2010 – 2013
  - Chair of the Board of Governors of St. Elizabeth Mary Girls Secondary School 2018 to date

- Member of Board of OSIENALA 2000 - 2009

**Other Activities**

- Coordinator of the Ministry of Water Development Women Sports Club. 1986-1987
- Committee member of the Maji Welfare Association of the Ministry of Water Development. 1986-1987
- Founder member and President of the African Fellowship Fund (AFF) of the Lancaster University. 1990-1991

**Languages :**

- English - very fluent in speech and writing
- Kiswahili - very fluent in speech and writing
- Luo (mother tongue) - very fluent in speech and writing

**References**

- Prof. Awange, J.L.,, Department of Spatial Science, Division of Resource and Environment Curtin University of Technology, Australia
- Prof. Jason S. Ogola, School of Environmental Science, University of Venda, P/B X 5050, Thohoyandou 0950, South Africa
- Prof. Boniface Oindo, Dean, School of Environment and Earth Sciences Maseno University, Private Bag, Maseno, Kenya.

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**Date: 27<sup>th</sup> February 2019**