

CURRICULUM VITAE

Employer:	University of Nairobi	Contact:	Department of Civil and
Name:	Dr. DULO , Simeon Otieno		Construction Engineering
Profession:	Civil/Water Resources Engineer		Box 30197, 00100 Nairobi.
Date of Birth:	1962		Tel - 254 739 324 864
Years with Firm:	31		Email sodulo@uonbi.ac.ke ,
Nationality:	Kenyan		otienodulo@yahoo.co.uk ,

Membership of Professional Societies/Institutions/Associations:

- Fellow the Hydrological Society of Kenya
- Graduate Engineer EBK
- Graduate Member of the Institution of Engineers of Kenya (IEK)
- Member International Association of Hydrological Sciences
- Associate of the Institute of Climate Change and Adaptation, UoN
- Member of Nile Basin Capacity Building Network on river Engineering
- Member of Nile- IWRMnet
- Member of NileNet (Nile Basin Initiative)
- Member African Technology Policy Studies Network

Administrative Responsibilities at University of Nairobi

- 2017 to Present - Chairman Civil and Construction Engineering Department, University of Nairobi.
- 2016 to Present - Appointed Science Director (Infrastructure) for the REACH Kenya Water Security Project.
- 2015 – 2017 Manager of the Mamlaka Strategic Management Unit of the Student Welfare Authority
- 2013 to Present, Technology Thematic Head, Institute for Climate Change and Adaptation
- 2014 and 2015 Appointed a Staff Commissioner for the SONU Election
- Acting Chairman, Department of Civil Engineering
- Dean's committee on,
 - School of Engineering/ Industrial linkages
 - School of Engineering ICT status
 - School of Engineering Teaching Timetabling
 - School of Engineering Examination Timetabling
 - Departmental Web design

Key Qualifications

1. A Water Resources Engineer

- With 31 years' experience both in the academic world as well as practice of engineering.
- PhD in Civil Engineering.
- MSc degree in Water Resources Engineering.
- BSc degree in Civil Engineering
- Holder of a UNESCO certificate in IWRM,
- Certificate in Negotiation skills and conflict resolution in Integrated Water Resources Management. I am a graduate member of the Institution of Engineers of Kenya and the ERB,

2. Professional Responsibilities

- Team Leader Nakuru County Baseline Study for UNEP Green Economy Operationalisation in Africa
- Team Leader Nile Capacity Building Network ICCUD project
- Team leader Urban Water Supply and Sanitation Evaluation Project for LVNWSB
- Team Leader for the NBCBN-RE Integrated Research in river engineering.
- Team Leader for the NBCBN-RE Local Action Project
- Lead Water Resource Engineer for the Ministry of Water and Irrigation National Flood Management Strategy

3. Highlights of Recent Assignments

- Water resource and Irrigation expert for the Kisumu Cluster Irrigation Development Project
- Water resource expert for the Nile Equatorial Lakes Subsidiary Action Program Consultancy Services for Undertaking Pre-Feasibility Studies for Irrigation Development and Watershed Management Project in the Lake Victoria Basin in Tanzania
- Country consultant on the EU FP-7 Drought Early Warning and Forecasting to strengthen preparedness and adaptation to droughts in Africa (DEWFORA)
- Hydrologist for the Thiba Dam Project– National Irrigation Board.
- Hydrologist for the Longonot KenGen Dam Project – Howard Humphreys EA Ltd.
- Water expert for the water supply and sanitation schemes valuation for the Lake Victoria North Water Services Board
- Hydrologist for the High Grand Falls Dam Project – Egis bceom International
- Reviewer for the National Irrigation Master Plan for the Ministry of Water and Irrigation
- Design and supervision for the Lavington Seventh Day Adventist Church.
- Hydrologist for the raising of the Masinga Dam – Howard Humphreys EA Ltd.
- Consultant for the ministry of Water and Irrigation Flood Management Strategy
- Water expert for asset inventory assessment and valuation for the Northern region of the Rift Valley Water Services Board.
- Review of the Kenya water sector performance 2008.
- Supervision and Quality control of water and sanitation projects in Lake Victoria North on behalf of the Water Services Board on the following Rural Water and Sanitation Projects

- Seum Project in TransNzoia East district in Rift Valley Province.
 - Khalumuli Project in Yalusi, Bungoma district.
 - Design, supervision and evaluation of Ganzo Water and Sanitation Projects in the Republic of Rwanda
 - Design, supervision and evaluation of Gatare Water and Sanitation Projects in the Republic of Rwanda
 - Data collection and hydrological studies for Nile, Nyando and Nzoia river basins. Currently specialising in the water Resources Systems analysis and applications of Integrated Water Resource Management in ASAL areas.
 - Consultant in the UNESCO-AWSE initiative for mainstreaming HIV/AIDS in engineering.
4. Social responsibilities
- Chairman Civil Engineering Staff Welfare Association
 - Chairman Hydrological Society of Kenya
 - National Vice Chair Water Cap
 - Superintendent for the Children Ministry at the Nairobi Pentecostal Church Woodley.
 - Coordinator for the Preteens training program at the Nairobi Pentecostal Church Woodley.
 - Team Leader for the Married Couples Care and Support Group (MCCSG) at the Nairobi Pentecostal Church Woodley.
 - Chairman Riara Primary School parents teachers' association
5. Knowledge Management and Capacity Building,
- Principal Facilitator for World Meteorological Organisation IGAD HYCOS training programs on
 - Integrated Water Resources Management
 - Integrated Flood Management
 - Consultant for the data and knowledge management programme for the Kenya Meteorological – UNDP CapNet project.
 - International training consultant for the World Metrological Organisation's Associated Flood Management Programme.
 - Regional trainer for the Nile Integrated Water Resource Network (Nile-IWRM).
 - 2006 – Nile Basin Initiative and Nile IWRM-net. Currently participating in the Nile regional initiative for common tertiary programs in Integrated Water Resources Management
 - 2005 – Department of Civil Engineering, University of Nairobi. Design and implementation of reviewed degree programs in the department as part of an overall University restructuring program.
 - 1992 – Institute of Metrological Training and Research, Nairobi. Design and implementation of an international (World Metrological Organisation) program for a post graduate Diploma in hydrology.

Employment Record

2010 to date	Senior Lecturer, Dept. of Civil and Construction Engineering, University of Nairobi
1990–2009	Lecturer, Dept. of Civil Engineering, University of Nairobi
1989–1990	Tutorial Fellow, Housing Research and Development Unit, University of Nairobi

1984–1989 Lecturer, Building and Civil Engineering Dept., Kenya Polytechnic

Education:

- 2010 University of Nairobi Nairobi, Kenya
PhD. Civil Engineering (Ground water pollution).
- 1988 Birmingham University Midlands, UK
M.Sc. Water Resources Engineering.
- 1988 Bolton Institute for Higher Education, UK
Certificate in Technical Education.
- 1984 University of Nairobi Nairobi, Kenya
B.Sc. Civil Engineering.

Short Courses:

- 2015 University of Nairobi – ToT in PhD Supervision, Manzoni, Kenya
- 2013 National Flood Centre Ministry of Water and Irrigation , Egypt
Certificate in Hydrological and Regional Climate Modelling Tools for Climate Change Risk Management in the Nile Basin
- 2009 University of Nairobi – United States Geological Survey , Kenya
Certificate in Computer aided Groundwater Modelling
- 2009 Nile-IWRMnet – Institute for Metrological Research and Training Nairobi
Certificate in Data Sharing and Knowledge Management in IWRM
- 2009 UNEP – Hydraulic Institute Netherlands Kampala
Certificate in Climate Change Adaptation in Water Resources
- 2008 UNESCO – IHE and Hydraulic Research Institute Egypt
Certificate in Computer aided Catchment Modelling
- 2007 Nile-IWRMnet Nairobi, Kenya
Certificate in the economic and financial instruments for Integrated Water Resource Management (IWRM)
- 2006 Nile-IWRMnet Nairobi, Kenya
Certificate in the role of Integrated Water Resource Management (IWRM) in Ecological Conservation
- 2006 Nile - IWRMnet Addis, Ethiopia
Certificate in Conflict Resolution and Negotiation Skills for IWRM.
- 2005 UNESCO- chair in Water Resources Sudan
Certificate in Integrated water Resources Management in Nile Basin

Experience summary

Dr. Dulo Simeon Otieno is a Water Resources Engineer with over 25 years' experience as a Team Leader in Design, Supervision and evaluation of water and sanitation projects in Kenya and Rwanda. Dr. Dulo has served as a water sector Review Consultant, Hydrologist, Water Engineer and a consultant in various Consulting firms. He is currently a senior Lecturer at the University of Nairobi.

He is an international capacity building expert in IWRM. He has handled various Water and sanitation development projects in Kenya and Rwanda. His clients have been Governments of these countries as well as other organisations.

Specific experience in the region

Country
Rwanda
Tanzania
Kenya

Water Projects Record

Date	Location	Company	Position	Description of Main Project Features
2015	Kenya	REDPLAN Consultants Ltd	Design Engineer	Feasibility and design of constructed wetlands for the Kisumu and Homa Bay wastewater treatment plants; <ul style="list-style-type: none"> Analyse wetlands technology options appropriate for each site Identify and design the selected option for each site Provide an estimate costing for the designed systems.
2013 to 2015	Kenya	Tertiary Consulting Engineers	Water Resource and Hydrology Consultant	Feasibility and design master plan for the greater Tana Irrigation Development Project; <ul style="list-style-type: none"> Detailed Feasibility Study covering the entire project area and identifying the best development options and arrangements. Preliminary Design of the optimum development plan.
2012 to 2013	Kenya	Tertiary Consulting Engineers	Water Resource and Irrigation Consultant	Feasibility and design for the Kisumu Cluster Irrigation Development Project; <ul style="list-style-type: none"> Update on irrigation schemes in the Kisumu County Prepare options for increased Irrigation command in the county Design of scheme infrastructure and development plan for the county.
2012	Kenya	National Irrigation Board	Consultant	Thiba Dam Project; <ul style="list-style-type: none"> To oversee and review the design process and documentation for the project. rainfall and runoff data; approach and methodology for stream flow analysis

Date	Location	Company	Position	Description of Main Project Features
				<ul style="list-style-type: none"> downstream runoff rainfall analysis for the dam design and impact on flood.
2012	Tanzania	Gibb Africa Ltd	Consultant	<p>Irrigation and Catchment Assessment Project;</p> <ul style="list-style-type: none"> To prepare, a prefeasibility catchment integrity study for Isanga valley, Mara valley, Manonga, Bugwema and Ngono in the Lake Victoria basin in Tanzania.
2011 to 2013	Kenya	DEWFORA EU FP-7 Program	Country Consultant	To prepare, a framework for monitoring, predicting, timely (Early) warning and responding (Mitigation) to droughts at the seasonal time scale, applicable within the institutional context of African countries. DEWFORA aims to reduce vulnerability and strengthen preparedness to droughts in Africa.
2011	Kenya	Howard Humphreys EA Ltd.	Hydrologist Engineer	<p>Longonot KenGen Dam Project;</p> <p>Preparation of rainfall and runoff data; Analysis of rainfall and stream flow data; flow duration and frequency analysis.</p> <p>Runoff rainfall modelling for the dam design and impact on flood control downstream.</p>
2011	Kenya	Ministry of Water and Irrigation	Team Leader	<p>Inspection of water institutions, audit (Technical) I and valuation of assets in the northern region of the LVNWSB.</p> <p>Preparation of asset registers for new water utility companies.</p>
2010	Kenya	Egis bceom International	Hydrology Expert	<p>High Grand Falls Dam Project – Tana River;</p> <p>Preparation of rainfall and runoff data; Analysis of rainfall and stream flow data; flow duration and frequency analysis.</p> <p>Runoff rainfall modelling for the dam design and flood control downstream.</p>
2010	Kenya	Ministry of Water and Irrigation	Review Consultant	<p>Main Project Features:</p> <p>Review and comment on the draft national irrigation master plan.</p>
2009	Kenya	Ministry of Water and Irrigation	Water Resource Expert	<p>Main Project Features:</p> <p>Developing a National Flood Mitigation Strategy. Review flood incidences and impacts in the basins; review policy and intervention plans and recommend strategies for basin flood management.</p>
2008	Kenya	Ministry of Water and Irrigation	Team Leader	<p>Main Project Features:</p> <p>Inspection of water institutions, audit (Technical) I and valuation of assets in the northern region of the RVWSB.</p> <p>Preparation of asset registers for new water utility companies.</p>
2008	Kenya	Ministry of Water and Irrigation	Review Consultant	<p>Main Project Features ;</p> <p>Audit and evaluation of sector institutions performance in the 2007/08 financial year. Recommending undertakings for the next financial year 2008/09.</p>

Date	Location	Company	Position	Description of Main Project Features
2007	Kenya	Heritage Consultants	Water Engineer	<p>Main Project Features ;</p> <p>Supervision and Quality control of water and sanitation projects in Lake Victoria North on behalf of the Water Services Board on the following Rural Water and Sanitation Projects ;</p> <ul style="list-style-type: none"> ▪ Seum Project in Trans Nzoia East district in Rift Valley Province. ▪ Khalumuli Project in Yalusi, Bungoma district.
2007	Ruanda	LEXMAR Engineering	Water Engineer	<p>Main Project Features ;</p> <p>Hydrological survey for the Ganzo Tea Estate water supply</p> <p>Design of ;</p> <ul style="list-style-type: none"> ▪ Intake works and transmission lines for the project in Rwanda. ▪ Water treatment and distribution network to Project factory, staff estates, schools and social amenities. ▪ Waste water collection and treatment units for the project.
2007	Ruanda	LEXMAR Engineering	Water Engineer	<p>Design of ;</p> <ul style="list-style-type: none"> ▪ River intake works and transmission lines for the Gatara infrastructure project in Rwanda. ▪ Water treatment and distribution network to Project factory, staff estates, schools and social amenities. ▪ Waste water collection and treatment units for the project.
2006 – 2010	Kenya	NBCBN-RE	Coordinator	<p>Nile Basin Capacity Building Network Regional research; Nairobi</p> <ul style="list-style-type: none"> • Integrated Flood and Drought Management for Sustainable Development in the Nile Basin: The case of Nzoia and Kagera River Basins. • Capacity Building for Local Communities to Effectively Respond To Floods and Droughts.
2003 – 2006	Kenya	NBCBN-RE	Research Engineer	<p>Nile Basin Capacity Building Network; Nairobi</p> <ul style="list-style-type: none"> • Hydrological forecasting and modelling for the Nzoia and Nyando Basins • Collection of Hydrological and Meteorological data and run-off analysis for Nzoia and Nyando Rivers.
2003 – 2009	Kenya	Howard Humphreys EA Ltd.	Hydrologist Engineer	<ul style="list-style-type: none"> • Masinga Dam Project; <ul style="list-style-type: none"> ○ Preparation of rainfall and runoff data; ○ Analysis of rainfall and stream flow data. ○ Preparation of elevation storage curves

Date	Location	Company	Position	Description of Main Project Features
2002 – 2004	Kenya	University of Nairobi	Research Consultant	Main Project Features ; <ul style="list-style-type: none"> • Study of historical data from available meteorological and river gauging stations to determine trends in rainfall, river flows, and temperature variations for Nyando and Nile Basins. • Hydrological appraisal of Nyando River Basin
2003	Kenya	Kendu Bay Ginnery	Engineer	Project Main Features ; <ul style="list-style-type: none"> • Investigation of flooding problems at the Kendu Bay Ginnery, Rachuonyo District. • Study of the characteristics of water crossings and hydrological structures for roads in Rachuonyo District.
1992 - 1997	Kenya	University of Nairobi, Department of Metrology	Hydrologist	Main Project Features ; <ul style="list-style-type: none"> • World Metrological Organisation (IMTR) program on hydrology for capacity building in East and Central Africa.

Solid Waste Projects

Date	Location	Company	Position	Description
2015	Kenya	Apex Consulting Group Ltd	Consultant	Siting and feasibility study for Narok town: <ul style="list-style-type: none"> • Site identification for a sanitary landfill (SLF) • Transfer station siting • Estimates for the proposed SLF.
2014	Kenya	LOG Associates	Consultant	Siting and feasibility study for Kisumu town: <ul style="list-style-type: none"> • Site identification for a sanitary landfill (SLF) • Estimates for the proposed SLF.
2012 - 2010	Kenya	University of Nairobi	Supervisor	Masters Project Features: <ul style="list-style-type: none"> • Strategic planning for the waste management in Embu Municipality.
2009 - 2010	Kenya	University of Nairobi	Supervisor	Masters Project Features: <ul style="list-style-type: none"> • Supervision of solid waste management projects on coffee, rice, construction waste in Kenya • Supervision of project on resource utilisation from solid waste; and • Use of GIS in solid waste management.

Date	Location	Company	Position	Description
2002 - 2009	Kenya	University of Nairobi	PhD	Main Project Features: <ul style="list-style-type: none"> • Analysis of solid waste collection efficiency in Nairobi, Mombasa, Kisumu, Nakuru and Eldoret • Modelling pollution from uncollected waste in dumpsites
2008 - 2007	Kenya	University of Nairobi	Supervisor	Masters Project Features: <ul style="list-style-type: none"> • Zoning strategy for solid waste management in Nairobi. • Medical solid waste management case study.
2002 - 1998	Kenya	University of Nairobi	Engineer	Main Project Features ; <ul style="list-style-type: none"> • World Bank funded research on utilization of rice husk waste for pozzolana production.

Structural Projects Record

Date	Location	Company	Position	Description
2006 - 2013	Kenya	The Seventh Day Adventist Church	Pro bono Consultant	Main Project Features: <ul style="list-style-type: none"> • Design and supervision of the Lavington Sanctuary on LR No. 330/151.
2005 - 2006	Kenya	AM Creative Planners	Consultant	Main Project Features: <ul style="list-style-type: none"> • Supervision of structural Works for residential unit on plot No at Spring Valley, Nairobi
2001 - 2003	Kenya	AM Creative Planners	Consultant	Main Project Features: <ul style="list-style-type: none"> • Structural design work for the Garissa Academy at Bulla Iftin, Garissa. • Structural design and construction work for the residential unit on plot no 63/503 phase 2 Jamuhuri Estate, Nairobi.
1995 - 1997	Kenya	Scenario Consultant	Engineer	Main Project Features ; <ul style="list-style-type: none"> • Structural design and construction work for the residential unit at South B, Nairobi.
1989 - 1991	Kenya	Arch Concepts	Engineer	Main Project Features ; <ul style="list-style-type: none"> • Structural design works for the residential unit on plot no 10 Naivasha.

Date	Location	Company	Position	Description
				<ul style="list-style-type: none"> • Structural design work for the residential unit on plot no 12/56(2) Nakuru Municipality. • Structural design works for the residential unit on plot no 12/9 Nakuru Municipality. • Structural design works for the flats on plot no 3/966 Nakuru Municipality. • Structural design and construction work for the maisonettes on plot no 14 Nakuru Municipality.
1985 - 1986	Kenya	Scenario Consultant	Engineer	<p>Main Project Features ;</p> <ul style="list-style-type: none"> • Structural design and construction work for the shops and offices on plot no 166 Kariobangi light industries, Nairobi.
1982 - 1985	Kenya	ADOZAS Contractor	Student Engineer	<p>Main Project Features ;</p> <ul style="list-style-type: none"> • Structural design works for the shops and offices on plot no 1348 Kisumu Municipality. • Structural design and construction work for the flats on plot no 332 Migosi, Kisumu Municipality. • Structural design works for the maisonettes on plot no 498 Kanyakwar, Kisumu Municipality. • Structural design works for the maisonettes on plot no 1179 Kanyakwar, Kisumu Municipality.

Research Experience

Period	Title	Sponsor
2018 present	to Evaluation of Climate Variability and Change Impacts on Water Scarcity for Rain-fed agriculture in the Lake Victoria Basin.	US\$ 55,000 - DUPC2 funding programme under UNESCO-IHE to coordinate
2015 present	to REACH Water Security Research Project- REACH is a seven-year, global programme of research (2015-2022) led by Oxford University and funded with UK aid from the UK government. REACH is a new global research programme to improve water security for the poor by delivering world-class science that transforms policy and practice.	£783,390 (UoN) UK DFID - Department for International Development
2015 present	to AfriWatSan, a 5-year research and capacity-strengthening project seeking to sustain low-cost, on-site water supplies and sanitation systems in urban Africa.	£1.1 M (£316,840 – UoN) The Royal Society and UK DFID - Department for International Development
2007-2010	Integrated Flood and Drought Management for Sustainable Development in the Nile Basin - The case of Nzoia and Kagera River Basins	UNESCO – IHE and Nile Basin Capacity Building Network
2003-2006	Flood Forecasting and Early Warning	UNESCO – IHE and Nile Basin Capacity Building Network
2001-2005	Leachate modeling	University of Nairobi
1997-2001	Solid Waste Management	University of Nairobi
1997-1999	Alternative binders (pozzolanas)	World Bank
1991	Infrastructure in Nyeri town	UNCHS
1988	Sewer Sediments Analysis Protocol	Water Research Council –U.K

Books

1. Dulo S.O. and Wasonga M. (2011). *Assessment of Urban Water Supply: Case Study of Athi Town*. Lulu Publishers Ltd, September 2011. ISBN- 978-1-105-09985-4
2. Dulo S.O, (2010). *Solid Waste Management: Leachate Migration into Groundwater*. VDM Publishing House Ltd, November 2010. ISBN- 13: 978-363909188
3. Dulo S.O, Ndirangu W, Kabubi J (2009). *Hydro-climatic Disasters in Water Resources Management. Training Manual, UNDP/Cap-Net, March 2009*.

Journals, Conference Papers and Technical Reports

1. Muthusi N.N., Dulo S.O., Ndiba P.K. (2020). Runoff Estimation for an Urban Area using SCS-CN Method, Remote Sensing and Geographic Information Systems Approach: A Case Study of Mavoko Municipality, Kenya. *International Journal of Engineering Research & Technology (IJERT)* <http://www.ijert.org> ISSN: 2278-0181, IJERTV9IS040668 Published by : www.ijert.org Vol. 9 Issue 04, April-2020
2. Odira C. M., Dulo S. O., Odira P.M.A. and Olago D. O. (2020). Water Availability Analysis of Multiple Source Groundwater Supply Systems in Water Stressed Urban Centers: Case of Lodwar municipality, Kenya." *J Civil Environ Eng* 10 (2020): 339 doi: 10.37421/jcde.2020.10.339
3. Kanoti J.R., Olago D.O., Akech N.O., Nyamoi C.M., Dulo S.O., Ayah R., Taylor R. (2020). Sanitation challenges, groundwater perspectives and their intertwined relationships in Kisumu, Kenya. *Kenya Policy Briefs January 2020. Towards Realisation of Vision 2030*
4. Sorensen J, Olago D, Dulo S, Kanoti J, Gaye C, Faye SC, Pouye A, Owor M, Nayebare, J, Kulabako R, Lapworth D, Gwengweya G, Read D, Ward J, Taylor R, (2019). Real-time indication of faecally contaminated drinking water with fluorescence spectroscopy: towards understanding the causation. At: *10th International Groundwater Quality Conference (GQ 2019), Liège, Belgium, 9-12 Sept 2019*.
5. Kanoti, J.R., Olago, D., Opiyo, N., Nyamai, C., Dulo, S., Ayah, R. and Taylor, R. (2019) Microbial and Physical Chemical Indicators of Groundwater Contamination in Kenya: A Case Study of Kisumu Aquifer System, Kenya. *Journal of Water Resource and Protection*, 11, 404-418. <https://doi.org/10.4236/jwarp.2019.114024> ISSN Online: 1945-3108
6. Ochieng W.O, Oludhe C, Dulo S, (2019). Policy Options for Integrating Climate Change Adaptation into Hydropower Development in Kenya. *International Journal of Scientific Research and Engineering Development— Volume 2 Issue 1, Mar-Apr 2019, Pg 127 – 140. ISSN: 2581-7175*
7. Ochieng W.O, Oludhe C, Dulo S, (2019). Assessing Climate Change Trends within the Sondu Miriu River Basin and Impacts on Hydropower Generation, Kenya. *International Journal for Innovative Research and Development*. DOI No.: 10.24940/ijird/2019/v8/i2/FEB19011 February 2019 Vol 8 Issue 2 Pg 18 – 28. ISSN 2278 – 0211
8. Ochieng W.O, Oludhe C, Dulo S, (2019). Sustainable and appropriate climate change adaptation strategies for hydropower developments in the Sondu Miriu River Basin. *International Journal*

- of Scientific and Research Publications, Volume 9, Issue 3, March 2019. Pg 218 – 225. ISSN 2250-3153
9. Ochieng W.O, Oludhe C, Dulo S, (2019). Impact of Climate Change and Hydropower Development on the Community Livelihoods in the Sondu Miriu River Basin. *International Journal of Research and Scientific Innovation (IJRSI) | Volume VI, Issue III, March 2019, Page No.: 13-20 | ISSN 2321–2705*
 10. Dulo S.O, (2019). Onset and Cessation of Rainfall in East Africa. 28th January 2019 at the NBCBN training Workshop at Dar es Salaam University.
 11. Dulo S.O, (2018). Characterising of Leachate Pollution with Time, *International Journal of Application or Innovation in Engineering & Management (IJAIEEM)*, Volume 7, Issue 10, October 2018, pp. 031-039, ISSN 2319 - 4847.
 12. Dulo S.O, (2018). Pollution Threat of Solid Waste Dump Sites on Ground Water. *International Journal of Innovative Research and Knowledge* Volume-3 Issue-10, October-2, pp. 34-41. ISSN-2213-1356
 13. Dulo S. O. (2018). “Ground water supply and sanitation challenges in developing countries: Case studies from Kenya”. presented a paper at International Association of Hydrogeology (IAH) Congress 11th September 2018 at Daejeon, Korea.
 14. Kihanya S., Oonge Z.I., Dulo S.O., (2017). Refinement of Gas generation estimates from anaerobic Lagoons: Case Study of Dandora Wastewater Treatment Plant, Kenya. *IOSR Journal of mechanical and Civil Engineering* Vol. 14, Issue 5, Ver. 1, Sept – Oct 2017
 15. Okova W.D., Dulo S.O., Odira P.M.A (2016). Effectiveness of Aerobic Microbials in Breaking Down of Hydrocarbons in Effluent Discharges from Petroleum Service Stations. *ICASTOR Journal of Engineering* Vol. 9, No. 2 (2016) 95 – 109
 16. Okova W.D., Dulo S.O., Patts M. A. O. (2016). Determining Break Down of Hydrocarbons in Effluent Discharges from Petroleum Service Stations. *Journal of Bioscience and Bioengineering* Vol. 1, No. 5, 2015, pp. 112-117 <http://www.aiscience.org/journal/bio> ISSN: 2381-7690 (Print); ISSN: 2381-7704 (Online)
 17. REACH (2015) Country Diagnostic Report, Kenya. REACH Working Paper 3, University of Oxford, Oxford, UK. ISBN: 978-1-874370-61-1 © University of Oxford 2015. School of Geography and the Environment, South Parks Road, Oxford OX1 3QY, United Kingdom www.reachwater.org.uk
 18. Olago D.O., Dulo S.O, and Kanoti J. (2015). Sustaining Urban Groundwater-Fed Water Supplies and Sanitation Systems in Africa. The Royal Society – DFID Capacity Building Initiative for Africa -Network Grant Award (AN130031) AfriWatSan publication, June 2015.
 19. Ikobe G.A.M., and Dulo S.O. (2015). Assessment of Structures for Water Storage in Tanathi Water Services Board, Kenya *International Journal of Research in Engineering & Technology (IMPACT: IJRET)* ISSN (E): 2321-8843; ISSN (P): 2347-4599 Vol. 3, Issue 10, Oct 2015, 13-26
 20. Simiyu N. L., and Dulo S.O. (2015). Spatiotemporal Analysis of Borehole Locations in Nairobi County 1930-2013. *International Journal Of Application Or Innovation In Engineering & Management* Volume 4, Issue 3, Pg 230-238. ISSN 2319-4847)
 21. Dulo S.O., Odira P.M., and Oonge Z.I. (2014). Potential for Groundwater by Poorly Managed Solid Waste. *Proceedings of the UNESCO - Hydrological Society of Kenya annual conference on Hydrology in water Cooperation and Security for Sustainable Economic Development, held at the Kenya Water Institute, Nairobi on 14th May 2012.* 192 – 198. ISBN: 978-9966-078-12-4

22. Dulo S.O., (2013). Mainstreaming climate change into regional trade and integration at the workshop on “Hydrological and Regional Climate Modelling Tools for Climate Change Risk Management in the Nile Basin” 22nd September to 26th September 2013, at the Pyramisa Hotel, Cairo, Egypt.
23. Dulo S.O and Njuguna W.S. (2012). Modelling Change in Development on Urban Runoff. Proceedings of the UNESCO - Hydrological Society of Kenya annual conference held at the Kenya Wild Life Training Centre Naivasha on 14th May 2012. 130 – 141. ISBN: 978-9966-21-231-3
24. Dulo S.O (2012). Climate Smart Infrastructure. Proceedings of the Institute for Climate Change and Adaptation workshop for media practitioners held at the Nairobi Safari Club, Nairobi on 15th May 2012.
25. Dulo S.O (2012). Climate Smart Infrastructure. Proceedings of the Institute for Climate Change and Adaptation workshop for professional bodies and researchers held at the Silver Springs Hotel, Nairobi on 9th – 11th May 2012.
26. Munyaneza, O., Ndayisaba, C., Wali, U.G., Mulungu, M.M. D., and Dulo, O. S., 2011. Integrated Flood and Drought Management for Sustainable Development in the Kagera River Basin. Nile Water Science and Engineering Journal, 4(1): 60-70. ISSN2090-0961
27. Dulo S.O, Odira P.M.A, Nyadawa M.O. and Okelloh B.N (2010). Integrated Flood and Drought Management for Sustainable Development in the Nzoia River Basin. Nile Water Science & Engineering Journal, Vol.3 (2) October 2010: pp. 39-51. ISSN2090-0953
28. Dulo S.O, Odira P.M.A, Nyadawa M.O. and Okelloh B.N (2010). Integrated Flood and Drought Management for Sustainable Development in the Nile Basin. Nile Basin Capacity Building Network publication, October 2010.
29. Shaka, M. Roushdy, S.O Dulo and Others (2010). Flood and Drought Forecasting and Early Warning Program (For the Nile Basin). A Research report for the Nile Basin Capacity Building Network for River Engineering.
30. Dulo S.O, Odira P.M and Others (2010). Capacity Building for local Communities to Effectively Respond to Floods and Droughts. A Research report for the Nile Basin Capacity Building Network for River Engineering.
31. Dulo S.O and Ogogo C. (2008). Migration of Leachate from Uncollected Solid Waste Dumpsite. Journal of Civil Engineering Practice, Vol. 5 (1) 2008: pp. 79-90 AJOL.
32. Dulo S.O (2008). Determination of some Physico-chemical parameters of the Nairobi River, Kenya. Journal of Applied Science and Environmental Management (JASEM), March, 2008, Vol. 12(1) 57 – 62, Bioline International ISSN 1119-8362
33. P.M Syagga, B Waswa-Sabuni, G.N Kamau and S.O Dulo (2003). Rice Husk Ash Cement - An Alternative Pozzolana Cement For Kenyan Building Industry. Journal of Civil Engineering, JKUAT Vol. 8, March 2003, pg 13-26.
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37. Dulo S.O (2008). The Impact of Decentralised Management Models in Water and Sanitation Projects in Kenya. Proceedings of the 2nd International Civil Engineering Conference on Civil Engineering and Sustainable Development, September 2008, pp, 335-340. ISBN 9966-923-42-X.
38. Dulo S.O (2008). Knowledge Management and Capacity Building in IWRM in Kenya. Proceedings of the International Symposium on Re-orienting Civil Engineering Education and Training, September 2008, pp, 113-118.
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44. S.O Dulo (1992). Use of Cement Stabilised Soil blocks. Proceedings of the Annual Seminar for the Kenya Society of Agricultural Engineers, held at the Jomo Kenyatta University College of Agriculture and Technology, Juja, Kiambu.
45. S.O Dulo and J. Malombe (1991). Infrastructure of Housing Schemes in Nyeri Municipality. Proceedings of the United Nations Training Program in Housing at the University of Nairobi. Pg 325-335.
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47. S.O Dulo (1990). "Sanitation a Priority". Proceedings of the annual seminar of the Kenya Society of Agricultural Engineers. University of Nairobi.

Conferences and seminars

- 24th – 27th February 2020.** Chair UPGro seminar at 20th African Water Association (AfWA) International Congress and Exhibition at the Serena International Conference Center, Kampala – Uganda
- 21st – 22nd November 2019.** Konrad-Adenauer-Stiftung Conference on Ecosystem Lake Victoria: Sustainable Development and Blue Economy Opportunities at the Lake Serena Resort Hotel, Kampala, Uganda.
- 9th – 14th September 2018.** The 45th International Association of Hydrogeologists (IAH 2018) will be held in Daejeon, Korea.
- 2nd – 4th December 2018.** The Royal Society-DFID Africa Capacity Initiative Award Holders Workshop at the Framissima Palm Beach Hotel in Saly, M'bour, Senegal.
- 9th – 13th July 2018.** The Annual International AfriWatSan Consortium Workshop that will be held in Dakar, Senegal
- 1st – 4th April 2017.** The Royal Society-DFID Africa Capacity Initiative Award Holders Workshop at the Ramada Resort, Jangwani Beach, Dar es Salaam
- 25th September to 29th September 2016.** 43rd IAH Congress at le Corum, Montpellier, France
- 10th December to 11th December 2015.** Water Security 2015 Conference at St. Catherine's (St. Catz) College, Oxford University, England
- 7th December to 9th December 2015.** REACH Workshop on Improving Water Security for the Poor at St. Catherine's (St. Catz) College, Oxford University, England
- 6th October to 10th October 2014.** Principal facilitator at IGAD-HYCOS Regional Training Workshop on Integrated Flood Management IFM, Nairobi, Kenya
- 27th August to 30th August 2013.** Presented a concept paper on improved drought early warning and forecasting to strengthen preparedness and adaptation to droughts in Africa, in Johannesburg, South Africa.
- 19th July to 23rd July 2013.** Principal facilitator at IGAD-HYCOS Regional Training Workshop on Integrated Water Resources Management IWRM, 15 – 19 July 2013, Nairobi, Kenya
- 14th June to 17th June 2013.** Participated at the workshop on "Impacts of Climate Change Uncertainties in Development" in Entebbe, Uganda.

- 19th November to 21st November 2012.** Participated in Intergovernmental Authority on Development (IGAD) – Hydrological Cycle Observing System (HYCOS) Project – IGAD-HYCOS at the Nairobi Safari Park Hotel, Nairobi, Kenya.
- 23rd March to 25th March 2012.** Participated in curriculum writing workshop for Postgraduate programs at the Institute of Climate Change and Adaptation, of the University of Nairobi at the Silver Springs Hotel, Nairobi, Kenya.
- 24th November 2011.** Participated in World Meteorological Organisation Stakeholder Interaction Workshop on IGAD-HYCOS at the Nairobi Safari Park Hotel, Nairobi, Kenya.
- 28th November to 30th November 2010.** Presented a paper on Capacity Building for Local Communities to Effectively Respond to Floods and Droughts, at the NBCBN Conference on Sustainable Solutions for strengthening the Capacity of Nile water Professionals at the Fairmont Nile City Hotel, Cairo, Egypt.
- 28th November to 30th November 2010.** Presented a paper on Integrated Flood and Drought Management for Sustainable Development in the Nile Basin, at the NBCBN Conference on Sustainable Solutions for strengthening the Capacity of Nile water Professionals at the Fairmont Nile City Hotel, Cairo, Egypt.
- 23rd November to 27th November 2009.** Presented a paper on Social dimensions of flood management – Fostering community resilience and stakeholder participation in decision-making at the WMO Training Workshop on Integrated Flood Management for Nile Basin Counties at the IMTR, Nairobi, Kenya.
- 23rd November to 27th November 2009.** Presented a paper on Economics of floods and flood plain management at the WMO Training Workshop on Integrated Flood Management for Nile Basin Counties at the IMTR, Nairobi, Kenya.
- 24th May to 30th May 2009.** Presented a paper on Impact of Climate Change on River Flows in Kenya- A case study of the Athi basin at the Nile IWRM_Net Regional workshop on Climate Change at the City Royal Hotel, Kampala, Uganda.
- 18th May to 21st May 2009.** Presented a paper on An Overview of WATSAN Technologies at the Nile IWRM_Net Training workshop on IWRM in Water and Sanitation held at the African Institute for Capacity Building (AICAD), Kenya of Metrological Training and Research in Nairobi, Kenya.
- 25rd September to 26th September 2008.** Presented a paper on Knowledge Management and Capacity Building in IWRM in Kenya at the Japan Society for the Promotion of Science (JSPS) international symposium on “Re-orienting civil engineering education and training”, held at the Sun ‘N’ Sand Hotel in Mombasa, Kenya.
- 23rd September to 25th September 2008.** Presented a paper on The impact of Decentralised Management models in Water and Sanitation Projects in Kenya at the 2nd International Civil

Engineering Conference on Civil Engineering and Sustainable Development, September 2008 held at the Sun 'N' Sand Hotel in Mombasa, Kenya.

8th August 2008. Presented a paper on The Mara Basin Hydrology at the UNOCHA. ochaonline.un.org/OchaLinkClick.aspx?link=ocha&docId=1092987

23rd June to 27th June 2008. Presented a paper on Flood risk assessment and management at the UNOCHA and NileIWRM_net Regional Training workshop on Factoring Hydro-climatic Disasters in IWRM held at the Institute of Metrological Training and Research in Nairobi, Kenya.

16th March to 20th March 2008. Attended capacity building program on adaptation to climate change and the relation with sustainable water management, organised by WMO, Associated Programme on Flood Management (APFM). The Forum which was organized CAPNet, at the WMO headquarters in Geneva, Switzerland.

12th March to 14th March 2008. Attended The African Technology Policy Studies Network's (ATPS) Integrated, Trans-Boundary River Management Policy Development (INTREPID) Stakeholder Policy Forum. The Forum which was organized in collaboration the Macaulay Institute, UK at the Ngurdoto Mountain Lodge in Arusha, Tanzania.

14th January to 17th January 2008. Attended a UNESCO-IHE Regional NBCBN-RE workshop on Use of computer models for Catchment Management at Hydraulics Research Institute, Delta Barrage, Egypt.

26th December to 30th December 2007. Attended a Regional NileIWRM_net Training workshop on Economic and Financial Instruments for IWRM held at the Institute of Metrological Training and Research in Nairobi, Kenya

19th to 22nd October 2007. Attended a Regional Training on Network Planning and Management for the Nile Basin Region held in Khartoum, Sudan.

11th June to 13th June 2007. Presented papers on 'Standards and Sustainability' and 'Institutional Arrangements and Policy issues' in IWRM', at the National Training Workshop at the Masinga Resort, Kenya.

21st May to 24th May 2007. Presented a paper on 'Responsibilities and Relevance of River Basin Organisations in IWRM', at the National Training course on Institutional Arrangements of IWRM at the Heron Hotel, Nairobi, Kenya.

8th January 2007. Attended a symposium on Civil Engineering in Sustainable Infrastructure Development at the Jomo Kenyatta University of Agriculture and Technology, Kenya

20th November to 24^h November 2006. Presented a paper on Historical Perspectives to Water Conflicts in the Nile basin at the Regional Training program on the Conflict Management and Resolution in Integrated Water Resource Management (IWRM) held at the African Institute for Capacity Building (AICAD), Kenya

- 16th October to 19th October 2006.** Presented papers on Principals of IWRM, The Principals of Ecological Management, Ecology and IWRM and Challenges in Knowledge Management in Hydrology at the National Training program on the role of Integrated Water Resource Management (IWRM) in Ecological Conservation held at the Institute of Metrological Training and Research in Nairobi, Kenya
- 9th October to 11th October 2006.** Attended a Regional NBCBN-RE workshop on Flood Management held at the Country Node, Department of Civil and Construction Engineering, University of Nairobi.
- 3rd August 2006.** Attended a National workshop on Integrated Flood Management for Nyando river Basin organised by the Ministry of Water and Irrigation held at the Hilton Hotel, Nairobi.
- 31st July to 1st August 2006.** Attended a National NileNet workshop on IWRM organised by the Applied Training Project of the Nile Basin Initiative held at the Silver springs Hotel, Nairobi.
- 29th to 30th May 2006.** Presented a paper on Bridging the Knowledge Gap in Hydrology at the National Hydrological Workshop held at Kenya Wildlife Service Institute, Naivasha.
- 1st to 5th May 2006.** Presented a paper on Water Conflicts in Kenya at the Regional Training of Trainers (ToT) Workshop on Conflict Resolution and Negotiation Skills for Integrated Water Resource Management (IWRM) held in Addis Ababa, ETHIOPIA.
- 11th to 13th April 2006.** Presented a paper on Mainstreaming HIV/AIDS in the University of Nairobi Undergraduate Curriculum at the UNESCO-AWSE conference at Nairobi Safari Club, Nairobi.
- 27th to 31st March 2006.** 4th VicRes Research Harmonization Workshop at AICAD, Jomo Kenyatta University of Agriculture and Technology (JKUAT).
- 17th to 21st September 2005.** Attended a Regional Training of Trainers (ToT) Workshop on in Integrated Water Resource Management (IWRM) for the Nile Basin and East Africa Region held in Khartoum, SUDAN.
- 26th April to 27th April 2005.** Attended the 3rd Regional NBCBN-RE workshop on capacity building in Flood Management, Nairobi Kenya.
- 13th June to 16th June 2004.** Attended an international NBCBN-RE workshop on River Engineering in Cairo, Egypt.
- 3rd May to 6th May 2004.** Attended the 2nd Regional NBCBN-RE workshop on capacity building in Flood Management, Nairobi Kenya.

Computer Literacy

Excellent Ms word Ms excel PowerPoint Archicad Internet

Good

Mod FLOW

HEC Hms

SWAT

ISIS

AutoCAD

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