

## *CURRICULUM VITAE*

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<b>Employer:</b>	University of Nairobi	<b>Contact:</b>	Department of Civil and
<b>Name:</b>	Dr. <b>DULO</b> , Simeon Otieno		Construction Engineering
<b>Profession:</b>	Civil/Water Resources Engineer		Box 30197, 00100 Nairobi.
<b>Date of Birth:</b>	1962		Tel - 254 739 324 864
<b>Years with Firm:</b>	32		Email <a href="mailto:sodulo@uonbi.ac.ke">sodulo@uonbi.ac.ke</a> ,
<b>Nationality:</b>	Kenyan		<a href="mailto:otienodulo@yahoo.co.uk">otienodulo@yahoo.co.uk</a> ,

### *Membership of Professional Societies/Institutions/Associations:*

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- Fellow the Hydrological Society of Kenya
- Registered 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*

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- 2017 to 2020 - 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*

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### 1. A Civil Engineer

- With 32 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 EBK,

### 2. Current Lead Responsibilities

#### **Country Subject matter expert** Research Team on Environment/ sustainable construction

- Guide Feasibility Study on Needs-Based along KeNHA networks
- Highway Planning and Safety – Mitigation and adaptation for highway climate induced extremes.
- Business Development (Ecotourism) – Rest and landmark viewpoint
- Environment and Social Safeguards – Design PPP and community driven programs to sustain highway integrity.

#### **International Collaborations**

- Kenya Team Leader ECU-Canada - Feasibility Study on The Program to Build Resilience for Food and Nutrition Security in The Horn of Africa.
- Investigator in the DFID project on Improving Water Security for The Poor
- Investigator in the RS-DFID Programme Grants - Round 1 project on Sustaining Low-Cost, Urban Water Supply and Sanitation Systems in Africa.

### 3. Highlights of Recent Assignments

- 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
- 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
- 2015 to 2017 - Chairman Civil Engineering Staff Welfare Association
  - 2014 to 2020 - Chairman Hydrological Society of Kenya
  - 2012 to 2017 - National Vice Chair Water Cap
  - 2011 to 2013 - 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.
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### *Employment Record*

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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:*

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- 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:*

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- 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

- 2008 Certificate in Climate Change Adaptation in Water Resources  
 UNESCO – IHE and Hydraulic Research Institute Egypt
- 2007 Certificate in Computer aided Catchment Modelling  
 Nile-IWRMnet Nairobi, Kenya
- 2006 Certificate in the economic and financial instruments for Integrated  
 Water Resource Management (IWRM)  
 Nile-IWRMnet Nairobi, Kenya
- 2006 Certificate in the role of Integrated Water Resource Management (IWRM)  
 in Ecological Conservation  
 Nile - IWRMnet Addis, Ethiopia
- 2005 Certificate in Conflict Resolution and Negotiation Skills for IWRM.  
 UNESCO- chair in Water Resources Sudan  
 Certificate in Integrated water Resources Management in Nile Basin

*Experience summary*

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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*

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<b>Country</b>
<b>Rwanda</b>
<b>Uganda</b>
<b>Tanzania</b>
<b>Kenya</b>

*Environment Infrastructure Projects Record*

<b>Date</b>	<b>Location</b>	<b>Company</b>	<b>Position</b>	<b>Description of Main Project Features</b>
<b>2020 to 2021</b>	<b>Kenya</b>	<b>Collaborative Agreement Between University of Nairobi and Kenya National Highways Authority</b>	<b>Country Subject matter expert</b>	<p><b>Research Team on Environment/ sustainable construction</b> Guide Feasibility Study on Needs-Based along KeNHA networks</p> <ul style="list-style-type: none"> <li>• Highway Planning and Safety – Mitigation and adaptation for highway climate induced extremes.</li> <li>• Business Development (Ecotourism) – Rest and landmark viewpoint</li> <li>• Environment and Social Safeguards – Design PPP and community driven programs to sustain highway integrity.</li> </ul>
<b>2020 to 2021</b>	<b>Kenya</b>	<b>ECU Inc. (1988) Group Montreal (Quebec, Canada)</b>	<b>Country Team Leader</b>	<p>Feasibility Study on The Program to Build Resilience for Food and Nutrition Security in The Horn of Africa.</p> <ul style="list-style-type: none"> <li>• Technical and economic optimization studies (including selection of intervention areas, quantification of the expected results and quantification of program costs)</li> <li>• Environmental and social impact assessment and licensing and</li> <li>• Definition of the Program structure, financing, and procurement arrangements.</li> </ul>
<b>2015</b>	<b>Kenya</b>	<b>REDPLAN Consultants Ltd</b>	<b>Design Engineer</b>	<p>Feasibility and design of constructed wetlands for the Kisumu and Homa Bay wastewater treatment plants;</p> <ul style="list-style-type: none"> <li>• Analyse wetlands technology options appropriate for each site</li> <li>• Identify and design the selected option for each site</li> <li>• Provide an estimate costing for the designed systems.</li> </ul>
<b>2013 to 2015</b>	<b>Kenya</b>	<b>Tertiary Consulting Engineers</b>	<b>Water Resource and Hydrology Consultant</b>	<p>Feasibility and design master plan for the greater Tana Irrigation Development Project;</p> <ul style="list-style-type: none"> <li>• Detailed Feasibility Study covering the entire project area and identifying the best development options and arrangements.</li> <li>• Preliminary Design of the optimum development plan.</li> </ul>
<b>2012 to 2013</b>	<b>Kenya</b>	<b>Tertiary Consulting Engineers</b>	<b>Water Resource and Irrigation Consultant</b>	<p>Feasibility and design for the Kisumu Cluster Irrigation Development Project;</p> <ul style="list-style-type: none"> <li>• Update on irrigation schemes in the Kisumu County</li> <li>• Prepare options for increased Irrigation command in the county</li> <li>• Design of scheme infrastructure and development plan for the county.</li> </ul>

Date	Location	Company	Position	Description of Main Project Features
2012	Kenya	National Irrigation Board	Consultant	Thiba Dam Project; <ul style="list-style-type: none"> <li>To oversee and review the design process and documentation for the project. rainfall and runoff data;</li> <li>approach and methodology for stream flow analysis</li> <li>downstream runoff rainfall analysis for the dam design and impact on flood.</li> </ul>
2012	Tanzania	Gibb Africa Ltd	Consultant	Irrigation and Catchment Assessment Project; <ul style="list-style-type: none"> <li>To prepare, a prefeasibility catchment integrity study for Isanga valley, Mara valley, Manonga, Bugwema and Ngono in the Lake Victoria basin in Tanzania.</li> </ul>
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	Longonot KenGen Dam Project; Preparation of rainfall and runoff data; Analysis of rainfall and stream flow data; flow duration and frequency analysis. Runoff rainfall modelling for the dam design and impact on flood control downstream.
2011	Kenya	Ministry of Water and Irrigation	Team Leader	Inspection of water institutions, audit (Technical) I and valuation of assets in the northern region of the LVNWSB. Preparation of asset registers for new water utility companies.
2010	Kenya	Egis bceom International	Hydrology Expert	High Grand Falls Dam Project – Tana River; Preparation of rainfall and runoff data; Analysis of rainfall and stream flow data; flow duration and frequency analysis. Runoff rainfall modelling for the dam design and flood control downstream.
2010	Kenya	Ministry of Water and Irrigation	Review Consultant	<b>Main Project Features:</b> Review and comment on the draft national irrigation master plan.
2009	Kenya	Ministry of Water and Irrigation	Water Resource Expert	<b>Main Project Features:</b> 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.
2008	Kenya	Ministry of Water and Irrigation	Team Leader	<b>Main Project Features:</b> Inspection of water institutions, audit (Technical) I and valuation of assets in the northern region of the RVWSB. Preparation of asset registers for new water utility companies.

Date	Location	Company	Position	Description of Main Project Features
2008	Kenya	Ministry of Water and Irrigation	Review Consultant	<b>Main Project Features ;</b> Audit and evaluation of sector institutions performance in the 2007/08 financial year. Recommending undertakings for the next financial year 2008/09.
2007	Kenya	Heritage Consultants	Water Engineer	<b>Main Project Features ;</b> 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 ; <ul style="list-style-type: none"> <li>▪ Seum Project in Trans Nzoia East district in Rift Valley Province.</li> <li>▪ Khalumuli Project in Yalusi, Bungoma district.</li> </ul>
2007	Ruanda	LEXMAR Engineering	Water Engineer	<b>Main Project Features ;</b> Hydrological survey for the Ganzo Tea Estate water supply <b>Design of ;</b> <ul style="list-style-type: none"> <li>▪ Intake works and transmission lines for the project in Rwanda.</li> <li>▪ Water treatment and distribution network to Project factory, staff estates, schools and social amenities.</li> <li>▪ Waste water collection and treatment units for the project.</li> </ul>
2007	Ruanda	LEXMAR Engineering	Water Engineer	<b>Design of ;</b> <ul style="list-style-type: none"> <li>▪ River intake works and transmission lines for the Gatara infrastructure project in Rwanda.</li> <li>▪ Water treatment and distribution network to Project factory, staff estates, schools and social amenities.</li> <li>▪ Waste water collection and treatment units for the project.</li> </ul>
2006 – 2010	Kenya	NBCBN-RE	Coordinator	Nile Basin Capacity Building Network Regional research; <b>Nairobi</b> <ul style="list-style-type: none"> <li>• Integrated Flood and Drought Management for Sustainable Development in the Nile Basin: The case of Nzoia and Kagera River Basins.</li> <li>• Capacity Building for Local Communities to Effectively Respond To Floods and Droughts.</li> </ul>
2003 – 2006	Kenya	NBCBN-RE	Research Engineer	Nile Basin Capacity Building Network; <b>Nairobi</b> <ul style="list-style-type: none"> <li>• Hydrological forecasting and modelling for the Nzoia and Nyando Basins</li> <li>• Collection of Hydrological and Meteorological data and run-off analysis for Nzoia and Nyando Rivers.</li> </ul>
2003 – 2009	Kenya	Howard Humphreys EA Ltd.	Hydrologist Engineer	<ul style="list-style-type: none"> <li>• Masinga Dam Project; <ul style="list-style-type: none"> <li>○ Preparation of rainfall and runoff data;</li> <li>○ Analysis of rainfall and stream flow data.</li> </ul> </li> </ul>

Date	Location	Company	Position	Description of Main Project Features
				<ul style="list-style-type: none"> <li>○ Preparation of elevation storage curves</li> </ul>
2002 – 2004	Kenya	University of Nairobi	Research Consultant	<b>Main Project Features ;</b> <ul style="list-style-type: none"> <li>• 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.</li> <li>• Hydrological appraisal of Nyando River Basin</li> </ul>
2003	Kenya	Kendu Bay Ginnery	Engineer	<b>Project Main Features ;</b> <ul style="list-style-type: none"> <li>• Investigation of flooding problems at the Kendu Bay Ginnery, Rachuonyo District.</li> <li>• Study of the characteristics of water crossings and hydrological structures for roads in Rachuonyo District.</li> </ul>
1992 - 1997	Kenya	University of Nairobi, Department of Metrology	Hydrologist	<b>Main Project Features ;</b> <ul style="list-style-type: none"> <li>• World Metrological Organisation (IMTR) program on hydrology for capacity building in East and Central Africa.</li> </ul>

### Solid Waste Projects

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

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

### Structural Projects Record

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

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

## Research Experience

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<b>Period</b>	<b>Title</b>	<b>Sponsor</b>
2018 to 2020	Project Team Leader - 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 to present	Director Infrastructure - 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 to present	Co-PI - 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

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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

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1. Othoo, C., Dulo, S., & Olago, D. (2021). Flood-risk vulnerabilities of sanitation facilities in urban informal settlements: Lessons from Kisumu City, Kenya. *East African Journal of Science, Technology and Innovation*, 2(4). <https://doi.org/10.37425/eajsti.v2i4.371>
2. Denis Ong'ech, Prof. Daniel Olago, Dr. Simeon Dulo, Dr. Maggie Opondo, Dr. Gilbert Ouma, Prof. Albert Mumma, Prof. Robert Hope and Prof. Katrina Charles (2021). COVID-19 Impacts on Water Burden among Households in Turkana. *Kenya Policy Briefs January 2021. Towards Realisation of Vision 2030 Vol 2, Issue 1*.
3. Jimbo Kaunda Kenneth, S. K. Mwea & S. O. Dulo. (2020). Emissions of Vehicular Traffic along Uhuru Highway Corridor in Nairobi. *Journal of Engineering and Architecture*. December 2020, Vol. 8, No. 2, pp. 22-27. ISSN: 2334-2986 (Print), 2334-2994 (Online). Copyright © The Author(s). All Rights Reserved. Published by American Research Institute for Policy Development. DOI: 10.15640/jea.v8n2a4 URL: <https://doi.org/10.15640/jea.v8n2a4>
4. Michael O. Owen, Simeon O. Dulo, Christian O. Thine. (2002). Mapping of Feasible Artificial Groundwater Recharge Areas: Case of Nairobi City County, Kenya. December 2020 *Journal of Engineering and Architecture* 8(2):9-16. DOI: 10.15640/jea.v8n2a2
5. Calvince O. OTHOO, Simeon O. DULO, Daniel O. OLAGO, Richard AYAH (2020). Effects of Shallow Water Table on the Construction of Pit Latrines and Shallow Wells in the Informal Settlements of Kisumu City. *Sanitation Value Chain, J-STAGE an electronic journal platform for science and technology information in Japan*. ISSN: Online ISSN: 2432-5066 Print ISSN: 2432-5058. Published by Sanitation Project, Research Institute for Humanity and Nature Vol. 5 Issue 01, July-2020
6. Calvince O OTHOO, Simeon O DULO, Daniel O OLAGO, Richard AYAH (2020). Proximity Density Assessment and Characterization of Water and Sanitation Facilities in the Informal Settlements of Kisumu City: Implications for Public Health Planning. Volume 42 Issue 3 Pages 237-249. Published: September 01, 2020 DOI <https://doi.org/10.7888/juoeh.42.237>
7. Tanui F., Olago D., Dulo S., Ouma G., and Kuria Z. (2020). Hydrogeochemistry of a strategic alluvial aquifer system in a semi-arid setting and its implications for potable urban water supply: The Lodwar Alluvial Aquifer System (LAAS) <https://doi.org/10.1016/j.gsd.2020.100451>
8. Calvince O. OTHOO, Simeon O. DULO, Daniel O. OLAGO, Richard AYAH (2020). Effects of Shallow Water Table on the Construction of Pit Latrines and Shallow Wells in the Informal Settlements of Kisumu City. *Sanitation Value Chain, J-STAGE an electronic journal platform for*

science and technology information in Japan. ISSN: Online ISSN: 2432-5066  
Print ISSN: 2432-5058. Published by Sanitation Project, Research Institute for Humanity and Nature Vol. 5 Issue 01, July-2020

9. 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](http://www.ijert.org) Vol. 9 Issue 04, April-2020
10. 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
11. 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
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33. 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
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41. 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.
42. 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
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49. P.M Syagga, B Waswa-Sabuni, G.N Kamau and S.O Dulo (2003). Utilisation of Agro Based Pozzolanas in the Building Industry in Kenya. Proceedings of the International Civil Engineering Conference on Sustainable Development in the 21st Century, 12th – 16th August 2003, at the Intercontinental Hotel, Kenya. Pg 129 – 134.
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54. 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.
55. 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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57. 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*

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

- 19<sup>th</sup> November to 21<sup>st</sup> 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.
- 23<sup>rd</sup> March to 25<sup>th</sup> 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.
- 24<sup>th</sup> November 2011.** Participated in World Meteorological Organisation Stakeholder Interaction Workshop on IGAD-HYCOS at the Nairobi Safari Park Hotel, Nairobi, Kenya.
- 28<sup>th</sup> November to 30<sup>th</sup> 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.
- 28<sup>th</sup> November to 30<sup>th</sup> 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.
- 23<sup>rd</sup> November to 27<sup>th</sup> 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.
- 23<sup>rd</sup> November to 27<sup>th</sup> 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.
- 24<sup>th</sup> May to 30<sup>th</sup> 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.
- 18<sup>th</sup> May to 21<sup>st</sup> 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.
- 25<sup>rd</sup> September to 26<sup>th</sup> 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.
- 23<sup>rd</sup> September to 25<sup>th</sup> September 2008.** Presented a paper on The impact of Decentralised Management models in Water and Sanitation Projects in Kenya at the 2<sup>nd</sup> International Civil

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

**8<sup>th</sup> August 2008.** Presented a paper on The Mara Basin Hydrology at the UNOCHA. [ochaonline.un.org/OchaLinkClick.aspx?link=ocha&docId=1092987](http://ochaonline.un.org/OchaLinkClick.aspx?link=ocha&docId=1092987)

**23<sup>rd</sup> June to 27<sup>th</sup> 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.

**16<sup>th</sup> March to 20<sup>th</sup> 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.

**12<sup>th</sup> March to 14<sup>th</sup> 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.

**14<sup>th</sup> January to 17<sup>th</sup> 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.

**26<sup>th</sup> December to 30<sup>th</sup> 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

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

**11<sup>th</sup> June to 13<sup>th</sup> 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.

**21<sup>st</sup> May to 24<sup>th</sup> 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.

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

**20<sup>th</sup> November to 24<sup>h</sup> 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

- 16<sup>th</sup> October to 19<sup>th</sup> 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
- 9<sup>th</sup> October to 11<sup>th</sup> 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.
- 3<sup>rd</sup> 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.
- 31<sup>st</sup> July to 1<sup>st</sup> 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.
- 29<sup>th</sup> to 30<sup>th</sup> May 2006.** Presented a paper on Bridging the Knowledge Gap in Hydrology at the National Hydrological Workshop held at Kenya Wildlife Service Institute, Naivasha.
- 1<sup>st</sup> to 5<sup>th</sup> 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.
- 11<sup>th</sup> to 13<sup>th</sup> 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.
- 27<sup>th</sup> to 31<sup>st</sup> March 2006.** 4<sup>th</sup> VicRes Research Harmonization Workshop at AICAD, Jomo Kenyatta University of Agriculture and Technology (JKUAT).
- 17<sup>th</sup> to 21<sup>st</sup> 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.
- 26<sup>th</sup> April to 27<sup>th</sup> April 2005.** Attended the 3rd Regional NBCBN-RE workshop on capacity building in Flood Management, Nairobi Kenya.
- 13<sup>th</sup> June to 16<sup>th</sup> June 2004.** Attended an international NBCBN-RE workshop on River Engineering in Cairo, Egypt.
- 3<sup>rd</sup> May to 6<sup>th</sup> May 2004.** Attended the 2<sup>nd</sup> Regional NBCBN-RE workshop on capacity building in Flood Management, Nairobi Kenya.

### Computer Literacy

**Excellent**      Ms word      Ms excel      PowerPoint      Archicad      Internet

***Referees***

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