

CURRICULUM VITAE

1. PERSONAL INFORMATION

Name: **Prof. Basil Tito Iro Ong'or, PhD**

Address: Department of Civil and Structural Engineering,
School of Engineering and Built Environment
Masinde Muliro University of Science and Technology
P O Box 190-50100, Kakamega, KENYA

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Nationality : Kenyan

Marital status: Married

Date of Birth: 27th March, 1967

2. EDUCATION

Years	Schools/Colleges/Universities	Certificate attained
2004-2007	Hohai University, China School of Engineering <i>Graduation: 29th June, 2007</i>	PhD. in Hydrology and Water Resources
	Thesis: Ong'or B.T.I (2007). <i>Risk Assessment Methodology for Groundwater Overdraft Remediation in cone of Depression, Jining City, China. Hohai University</i>	
1998-2000	University of Dar es Salaam, Tanzania Faculty of Engineering <i>Graduation: 25th November, 2000</i>	MSc. in Water Resources Engineering
	Thesis: Ong'or B.T.I (2000). <i>Groundwater Management for Arusha Aquifer, Tanzania. Dar es Salaam University</i>	
1988-1991	Egerton University Faculty of Engineering <i>Graduation: 25th September 1992</i>	BSc. in Agricultural Engineering (Soil and Water Option)
	Final Year Project report: Ong'or B.T.I (1991). <i>The use of Geo-textiles in Earth Dam construction. Department of Agricultural Engineering. Egerton University</i>	

1986-1987	Kisii High School	Kenya Advanced Certificate of Education
1982-1985	Kisii High School	Kenya Certificate of Education
1974-1981	Rae Mixed Primary School	Certificate of Primary Education

Academic Honors and Awards

- Best foreign students at Hohai University, CHINA, in the 2004-2005 Academic year
- Chinese Government Scholarship for PhD. , 2004
- Belgium Government Scholarship for Msc studies , 1998
- BSc. (2nd Class Honours, Upper Division) in Agricultural Engineering (Soil and Water), 1992

3. OTHER SELECTED TRAININGS

1. ISO 9001:2015 QMS Transition training : 28th August, 2018
2. ISO 9001:2008 QMS Internal Quality Auditors Training (IQA): 3rd -12th November, 2014
3. Corporate Governance Training Course for Directors : 23-27th September 2013
4. Implementation of ISO 9001:2008 Seminar : 17th-19th March , 2011
5. Managing Agricultural Water under Climate Challenges. AICAD, IFAD, ICRISTA, JICA and World Bank organized Workshop at AICAD, Nairobi, Kenya: 9th-13th March, 2010:
6. The 10th World Meteorological Organization Symposium on Education and Training (Meteorological and Hydrological Education and Training for Disaster Preventions and Mitigation), Nanjing China: 18-12th Sept. 2006:
7. Hydrological Sciences for Managing Water Resources in Asian Developing world, Center for Water Resources & Environment, Sun Yat-sen University, Guangzhou P.R China : 8-10th June, 2006:
8. The 2005 Nanjing Hydraulic Research Institute International Water Science Summer Camp, Nanjing, China.: 2-30th June, 2005:
9. Disaster Management on Capacity Building, Kakamega, Kenya: 23-25th June, 2004
10. Gender and development, Ukweli Pastoral Center, Kisumu: 5-6th May, 1997
11. Designs of Pump fed and Sprinklers Irrigation systems, Kabete, 20-25th March, 1995
12. Irrigation Projects profile development, Nova Park, Kiambu, Kenya: 13-14th Oct., 1994
13. Drainage Projects Investigations and Inventory, Nakuru, Kenya: 14th-22nd July, 1993
14. Training of Trainers on Soil and Water Conservation, Sports View Kasarani, Nairobi: 8-11th June, 1993

4. AREA OF SPECIALIZATION

Water Resources Management, Planning and Engineering; Water Quality and Quantity modeling; Irrigation and Drainage; Water supply and Sanitation; Rain Water Harvesting and Storage; Flood management and control; Soil, Water and Environmental conservation; Projects Designs, Monitoring and Evaluation; Solid Waste Management; Training of Trainers on Soil, Water conservation and management and environment related areas. Quality assurance; Human resources management and capacity building, Financial managements and resources mobilization

5. KEY QUALIFICATIONS

Twenty Nine (29) years of professional experience in Soil and Water Resources Engineering projects including: feasibility studies, planning, design, implementation, management, monitoring, evaluation and construction supervision and reviews. These projects includes but not limited to: Water Supply and Sanitation, Irrigation and drainage, Soil and Water Resources Engineering, Environmental systems, Capacity building and institutional management systems designs. Academic curriculum writing and reviews, Institutional administration and financial management, human resources and students affairs management

- **Acting Deputy Vice Chancellor Administration and Finance- Ten (10) Months**
- **Dean Faculty of Engineering- Six(6) years**
- **Director of Privately Sponsored Students Programme (PSSP) , Learning Centres and Campuses- One(1) year**
- **Lecturer and Researcher** in areas of Water Resources, Hydrology and Environment at University and College levels – Twenty-two (22) years
- **Agricultural Engineer- Serving as Irrigation and Drainage Engineer, and as Soil and Water Conservation officer -Eleven years (11)**
- Fully computer literate with working knowledge of a number of software, including Msc Word, PowerPoint, Excel, GIS, Visual MODFLOW, MATLAB, SPSS, SURFER, MapInfo etc.

6. EMPLOYMENT HISTORY

2003- to Date Masinde Muliro University of Science and Technology, Kakamega

2014 (31st January, 2014) - to Date: ASSOCIATE PROFESSOR OF HYDROLOGY

2007(14th Nov. 2007) to 2013 : SENIOR LECTURER

2003(16th September, 2003) to 2007 : ASSISTANT LECTURER

In the Department of Civil and Structural Engineering, teaching and researching in Fluid Mechanics, Soil Mechanics, Hydrology, Water Resources Engineering , Water Supply and Sanitation, Irrigation and Drainage, Urban Drainage, Solid Waste Management and other Environmental Topics, Applied Engineering Hydrology, Hydrology Frequency

Analysis, Hydropolitics, Integrated Water Resources Management (IWRM), Groundwater Modelling, Groundwater Hydrology, Supervision of Postgraduate students pursuing Masters and PhD in Water Resources and Environment related fields. An Internal and External Examiners of student's thesis and Exams.

2001-2003 Lecturer at Bukura Agricultural College (Ministry of Agriculture)

In the Department of Agricultural Engineering, teaching Soil Physics, Water Supply and Sanitation, Irrigation and Drainage, Soil and Water conservation, and Environmental management.

1993-2003 Agricultural Engineer (Irrigation and Drainage Engineer, and Soil and Water Conservation Officer). Ministry of Agriculture and Rural Development; Water and Irrigation

Planned, designed, coordinated, supervised construction of Soil, Water Conservation and harvesting facilities, Water Supply and Sanitation projects, and Environmental management and protection systems and structures. Monitored and evaluated the projects performance. This includes water harvesting and storage structures, earth dams, water pans, flood control and management structures, Small holders and large scale Irrigation and Drainage systems, evaluation and reviews of projects supported by SIDA, ICRAF, IFAD, PLAN INTERNATIONAL, NALEP, European Union in Kiambu, Thika, Homabay, and Nyando districts as well as in Nyanza Provincial Irrigation Unit (PIU) of KENYA

1992-1993 Management Trainee in Agric. Engineering. Miwani Sugar Company 1989 Ltd.

Planned and coordinated Land and Cane Development operations and services. Supervised the maintenance of all Vehicles and other mobile units

1992 Water Engineer with Anglican Church of Kenya (ACK) Diocese of Maseno South, Kisumu

Designed and Implemented **Water Supply and Sanitation** projects of the Diocese of A.C.K e.g., Roof, Springs protections, Shallow wells and VIP latrines constructions. Monitoring and Evaluation of the same projects. Communities staff Training on Management of Projects also
Liaison with the relevant Government and other bodies

7. SELECTED RESEARCH UNDERTAKEN AND CONSULTANCIES

1. October-Nov, 2020: Climate Smart Capacity Development for the GIZ project Soil Protection and Rehabilitation of Degraded Soils in Western Kenya
2. 2017-2019: Laboratory training and equipment installation at Kenya Agricultural and Livestock Research Organization (Kalro), Alupe, Busia Kenya. Supported by GIZ – Kenya).
3. June 2013 to 2014: Royal Society-DFID Africa Capacity Building Initiative, Lake Victoria Region. Jointly wrote a proposal by University of Dar es salaam, Makerere University, MMUST and Water Resources Associates. **Cost Ksh 4.12 Million**
4. July 2012 -December, 2012 : Mara River Basin Water Use Plan (Funded by East African Community, Lake Victoria Basin Commission Secretariat). Jointly done by MMUST, JOUST, and Maseno University . *Developed a water Utilization plan for the Mara River Basin.* **Cost Ksh 2.1 Million**
5. 2011 - Feb.2012 : New Water Release and Abstraction Policy for the Lake Victoria Basin. Funded by East African Community **Lake Victoria Basin Commission Secretariat**. Jointly done by University of Dar es salaam, Makerere University, MMUST and Water Resources Associates. **Formulated a new Policy for release of Lake Victoria Water. Cost Ksh 3.4 Million**
6. 2009-2010: Chemical Pollution Sources Characterization and Environmental Impact in the Middle Catchment of Nzoia River. (Funded by University Research Fund). *The pollution Risk map for the catchment.* **Cost Ksh 500,000**
7. 2009-2010: Runoff harvesting for water supply, power generation and environmental conservation at Masinde Muliro university of science and technology in Kakamega (Funded by University Research Fund). **Cost Ksh.1.0 Million**
8. 2008-2011: A multi-system approach for flood mitigation and environmental protection in Budalangi Flood Plain, Kenya .
9. 7th July- 30th Sept, 2008: Flood Hazard and Environmental Risk Appraisal in Nyando River Basin. (Funded by JICA-IFM). *Developed Flood risk index map for the River Nyando Basin.* Cost Ksh 4.0Million
10. Training in Rain Water Harvesting and Environmental Protection. Kenya Nile Basin Discourse Forum, 4-5th, March, 2008
11. Training of Trainers on Arid Land Resources Management (Environmental Component), Garisa. World Bank Supported, 12-17th, Jan. 2004
12. 3rd Regional Training on Irrigation and Water Resources Management at Africa Institute for Capacity Development (AICAD), 18th Jan.-16th Feb.2004

8. PUBLICATIONS: PAPERS IN REFEREED JOURNALS

1. Kevin O. Odhiambo, Basil T. Iro Ong'Or, Edwin K. Kanda. Assessment of rainwater harvesting potential of Rachuonyo North Sub-Catchment in Kenya using the Australian water balance model, 2022. Journal of Water Supply: Research and Technology-Aqua, 29 January 2022 <https://doi.org/10.2166/aqua.2022.153>
2. Odhiambo Kevin.O, **Ong'or Basil T.Iro**, and Kanda Edwin K. Optimization of Rainwater Harvesting System design for SmallHolder Irrigation farmers in Kenya: Journal of Water Supply: Research and Technology-AQUA. Vol.70.No, 4 April 15, 2021, Pp483-492. doi.org/10.2166/AQUA.2021.087
3. KABONEKA Salvator, **Basil T. Iro ONG'OR**, KWIZERA Chantal, NSAVYIMANA Gaston,BUZOYA Donatien and NTUKAMAZINA Népomuscène. Effects of Urea and Di-Ammonium Phosphate Application on Acidification of three Burundi representative SoilsInternational. *Journal of Advances in Scientific Research and Engineering*. Vol. 5, No.8, August – 2019, Pp 183-191. E-ISSN : 2454-8006
4. KWIZERA Chantal, Basil T.Iro Ong' or, KABONEKA Salvator, NKESHIMANA Fulgence, & AHIBONEYE Norbert. (2019). Effects of Potassium Fertilizer on Bean growth and Yield parameters. *International Journal of Advances in Scientific Research and Engineering (IJASRE)*.Vol 5,No.1, January-2019, Pp1-7.ISSN:2454-8006, <https://doi.org/10.31695/IJASRE.2019.33001>
5. Kwizera Chantal, Ntunzwenimana Mélance,**Basil T.Iro Ong' or**, Niyonzima Hermes and Hakizimana vianny. Effects of **Irrigation** Levels on bean Growth and Yield parameters. *International Journal of Advances in Scientific Research and Engineering*), Vol.4,No.11,November–2018, Pp195-200E-ISSN : 2454-8006
6. James Odiero, **Basil T.I.Ong'or** and Masibayi N.Edward. Rainfall-Runoff Nexus in Mid-block of Yala Catchment. *SSRG International Journal of Civil Engineering* , Volume 5 Issue 10 – October 2018.Pp6-16.ISSN:2348-8352
7. Kwizera Chantal,**Basil T. Iro Ong'or**, Denis Bandushubwenge, Ndiokubwayo Soter and Shabani Félix. Effects of Different Nitrogen Fertilizer Levels on Sunflower Growth and Yield Attributes. *Pakistan Journal of Nutrition*, Vol.17. No.11, October 2018. Pp557-562.ISSN:1680-5194. DOI: [10.3923/PJN.2018.557.562](https://doi.org/10.3923/PJN.2018.557.562)
8. James Odiero, **Basil T.I.Ong'or** and Masibayi N.Edward. Simulation of runoff- water quality effects on surface water supply in Mid-block of Yala Catchment. *ICASTOR Journal of Engineering*, Vol. 11, No. 3, September 2018. Pp.47-73.ISSN-0974-407X
9. Juma Shadrack Wegulu, **Basil Iro Ong'or** and Caroline Kwamboka. Characterization of Surface Water quality for sustainable Development Case of Nzoia River , Kenya. *ICASTOR Journal of Engineering*, Vol. 11, No. 3 , September 2018. Pp.75-88.ISSN-0974-407X

10. Edwin K. Kanda , James Odiero, Valery O. Lutta and **Basil T.I Ong'or**. Challenges Facing Small and Medium Water Service Providers in Kenya: A Case of Amatsi Water Services Company, Vihiga County. *Journal of the Civil Engineering Forum* , Vol. 4 No. 1, January 2018. Pp.19-28. ISSN2581-1037
11. Patrick Wanyonyi Munialo, Carolyn K. Onyancha and **Basil Tito Iro Ong'or**. Estimating Water Demand Determinants and Forecasting Water Demand for Nzioa Cluster Services Area. *International Journal of Civil Engineering and Technology (IJCIET.)* Vol. 6, No. 8, Aug 2015, pp. 15-28, Article ID: IJCIET_06_08_003
12. M.O. Oloko, **B.T.I Ong'or** and J.O. Onyando. Modelling water supply system for water allocation and supply reliability in Kisumu City, Kenya. *East Africa Journal of Engineering , Science and Technology*, Vol.1, February, 2013. Pp.48-59. ISSN:2219-8598
13. Kiluva V.M, and **Ong'or B.T.I**. Rainfall-Runoff Simulation Using Linear based Models for flood early warning in the NZOIA River Basin-Kenya. *East Africa Journal of Engineering , Science and Technology*, Vol.1, February, 2013. pp:20-29. ISSN:2219-8598
14. Kiluva V.M, Mutua F., Makhanu S.K. and **B.T.I.Ong'or**. Application of the geological stream flow and Muskingum Model in the Yala River Basin, Kenya. *Journal of Agriculture Science and Technology*, Vol.13 No.2, April 2011, pp: 92-108. ISSN: 1561-7645
15. **Basil T.I. Ong'or**, and Shu Long-Cang, 2009. Groundwater overdraft and the impact of artificial recharge on groundwater quality in a cone of depression, Jining, China. *Water International*, Vol. 34, No. 4, December 2009, pp. 468–483. ISSN: 0250-8060
16. I.Abarchi, Zhang Zhen-Yu, B. Vanaule, Guo Xiang-Ping, Wang Wei-Hu, **B.T.I Ong'or**, and D. Timbely. 2009. Effect of Plant age and rock phosphate on quality and nutrients release of Legumes residues. *Pedospere an International Journal*, Vol. 19, No. 1, February 2009, pp.78–85. ISSN:1002-0160
17. Long Cang Shu, Pei-Gui Liu, and **Basil T. Iro Ongor**. 2008. Environmental impact assessment using FORM and groundwater system reliability concept: case study Jining, China. *Environmental Geology*, Vol. 55, No.3, July 2008, pp. 661-667. ISSN: 0943-0150
18. **B.T.I. Ong'or**, Long-cang Shu and Pei-gui Liu. 2007. Environmental impact assessment of risk associated with groundwater overdraft remediation in cone of depression, Jining, China, *Environmental Geology*, Vol.53, No.4, December 2007, pp: 751-762. ISSN:0943-0105
19. **Basil T.I. Ong'or** and Shu Long-Cang, 2007. Groundwater overdraft vulnerability and environmental impact assessment in Arusha. *Environmental Geology*, Vol. 51, No.7, February 2007, pp. 1171-1176. ISSN:0943-0105

20. Shu Long-cang, **Basil T. I Ong'or** and Tao Yu Fei, 2007. Probabilistic risk analysis for excessive Exploitation of Groundwater. *Journal of Natural Disaster*, Vol. 16, No. 2, 2007, pp.101-105. ISSN: 1004-4574.
21. **Basil Tito Iro Ong'or** and Shu Long-Cang, 2007. Water supply crisis and mitigation options in Kisumu city, Kenya. *International Journal of Water Resources Development*, Vol. 23, No.3, September 2007, pp. 485-500. ISSN:0790-0627

9 .PUBLICATIONS: SELECTED PAPERS IN CONFERENCE/WORKSHOP/SEMINAR AND REPORTS

1. Owino Kevin Odhiambo, **Basil T. Iro Ong'or** and Kanda E.K. Optimization of Rainwater Harvesting and Storage System Design for Smallholder Irrigation Farmers in Western Kenya. Kenya Climate Smart Agriculture Project (KCSAP) Scientific Conference, 22nd -26th November, 2021, Lake Naivasha Resort, Kenya
2. James Odiero and **Prof. B.T.I Ong'or**. Watershed Rainfall-Runoff Trends in the Mid-Block of Yala Catchment. Kibabii University 4th International Conference, 12th-14th June, 2019, Kibabii, Kenya
3. **Prof. Basil Ong'or**. Panelist. Water for Agriculture and Domestic Demand. Kisumu County Water Investment Conference: Exploring Opportunities for Investment in Water in Kisumu County. 29th November, 2017.
4. **Ong'or B. T. I.**, Oloko M. O. & Kiluva V. M. Challenge of equitable utilization of shared water resources in the Mara river basin. 5th Conference of Vice Chancellors and Deans of Science Engineering and Technology (COVIDSET 2013), Gaborone International Convention Centre, Gaborone , Botswana. 6 -7 November 2013. Book of Abstract pp54-55.
5. M.O. Oloko, **B. T. I. Ong'or**, V.M. Kiluva (2012). An Integrated Approach for Determining Water Demand for Kisumu City in Western Kenya. In the Proceedings of the International Conference on Disaster Risk Reduction and Conflict Resolution for Sustainable Development , 18-20 July, 2012. Pages 384-397, ISBN: 978-9966-1727-0-9
6. **Basil T.I Ong'or**, Michael O.Oloko and Ernest Nyamori. Mitigating climate change impact for sustainable Small Scale Irrigation in Kano Plains, Nyando Basin, Kenya. Minia International Conference for Agriculture and Irrigation in the Nile Basin Countries. 26th-29th March, 2012, El-Minia, Egypt.
7. Kiluva V.M., Mutua F., Makhanu S.K., and **Ong'or B.T.1**. Rainfall runoff modelling in Yala River Basin of Western Kenya. Kenya Meteorological Society 10th International Workshop. 20-23rd September, 2011, Mombasa, Kenya. Pg.58
8. **B.T.I Ongor** and M.O.Oloko. Long term consequences of forest destruction on water resources: A review of impacts. International Conference on Tropical forest, Masinde Muliro University of Science and Technology, Kakamega, Kenya. 6th-10th, June, 2011.
9. **Ongor B.T.I**, Oloko M.O, and V.M Kiluva. Re-Engineering Climate Change. International IEK Conference, Nairobi, Kenya. 12-13th May, 2011
10. **Basil T.Iro Ong'or** and E.K.Kanda. Design of solid waste disposal system: case of Kakamega municipality, Kenya. 1st Alexander Von Humboldt Alumni Kenyan Kolleg Conference, 24th-26th November, 2010.

11. Oloko M.O., Onyando J.O., **Ongor'B.T.1**. Developing a GIS Based Model for Analyzing Alternative Sources for Water Supply in Kisumu City, Proceeding of the 1st Engineering, Science and Technology Conference, Masinde Muliro University of Science and Technology, Kakamega, Kenya. 9th-11th, June, 2010. pp: 35-45.
12. **Ongor'B.T.I** and Oloko M.O. Groundwater Management: Engineering and Scientific tools for sustainability. Proceeding of the 1st Engineering, Science and Technology Conference, Masinde Muliro University of Science and Technology, Kakamega, Kenya. 9th-11th, June, 2010. pp: 62-68
13. Charles O. Gaya and **Basil T. Iro Ong'or**. Use of GIS in Community Flood Management and Environmental Risk Reduction: Case of Nyando River Basin, Kenya. Proceeding of the 1st Engineering, Science and Technology Conference, Masinde Muliro University of Science and Technology, Kakamega, Kenya. 9th-11th, June, 2010. pp: 69-75.
14. Fundi S.I., **B.T.I Ongo'r** and W.O Oyawa. Total Quality Management as a Control Tool in Engineering Innovations for Industrialization. Proceeding of the 1st Engineering, Science and Technology Conference, Masinde Muliro University of Science and Technology, Kakamega, Kenya. 9th-11th, June, 2010. pp: 144-148.
15. **B T.Iro Ong'or** and T.W Sakwa. Scientific and Technological Innovations for rural development: case of Masinde Muliro University of Science and Technology (MMUST) Kenya. 3rd African Regional Conference of Vice Chancellors, Provsts and Deans of Science, Engineering and Technology (COVIDSET 2009), conference November 23rd-25th 2009, Kampala, Uganda. Pg. 19
16. **Ong'or B.T.I.**, Oloko M.O. and Kapiyo R., 2009. Floods an Opportunity or an Environmental Risk? The Nyando River Basin Community Perspective. Proceedings for 1st International Conference on Economics and Management of Water in Arab World and Africa at Assiut University, Egypt, 18th - 19th November, 2009. Pg 45-54
17. Zhihua Wang, Longcang Shu, Ling Wang, **Basil Iro Ong'or**, Wanjie Wang, 2007. In-Situ Determination Methods of Streambed Hydraulic conductivity at the Huayuankou site in the Yellow River, China, [http:// www.paper.edu.cn](http://www.paper.edu.cn)
18. Bo LIU, Longcang Shu, **Basil T. Iro Ong'or** and Qingyi SUN, 2007. Evaluation methods for artificial recharge potential in cone of depression, in Jining City, China. Proceedings of the Second International Symposium on Methodology in Hydrology. IAHS -PUB. 311, pp 424–430
19. Longcang SHU, Zhihua WANG, **Iro Ong'or Basil T.**, Ling WANG, Zhenchun HAO, Yuming WANG, Maomei WANG, Bo LIU, Wei LI, 2007. Determination methods for streambed hydraulic conductivity in the lower reach of the Yellow River. Proceedings of the Second International Symposium on Methodology in Hydrology. IAHS -PUBS. 311, pp 594-599

20. Shu Longcang, Wang Xue and **Basil Iro Ong'or**, 2006. Effects of boundary uncertainty on Water Supply safety. In: Liu Zhiyu and Yang Dawen (eds). Proceedings of the International Symposium on Flood Forecasting and Water Resources Assessment for IAHS-PUB, pp 279-285
21. Shu Longcang, Liu Peigui, **Basil Iro Ong'or** and Dong Guiming, 2006. Application of M-C and JC methods on uncertainties analysis in groundwater resources evaluation. In: Liu Zhiyu and Yang Dawen (eds) Proceedings of the International Symposium on Flood Forecasting and Water Resources Assessment for IAHS-PUB, pp 663-670
22. SHU Long-cang, LIU Pei-gui, DONG Guiming and **Basil Iro Ongor**. JC method for uncertainty analysis in evaluation of groundwater allowable withdrawal. The 34th Congress of International Association of Hydrogeologists. October, 2006
23. **Basil T.I. Ong'or** and Shu Long-cang. Groundwater vulnerability assessment and sustainable management option for Arusha municipality aquifer, Tanzania, International conference on Hydrological Sciences for managing water resources in Asian Developing world, Center for Water Resources & Environment, Sun Yat-sen University, Guangzhou P.R China, June, 2006
24. Bo LIU, Longcang SHU, **Basil. T.Iro Ongor** & Qingyi SUN. Evaluation method for artificial recharge potential in a cone of depression in Jining City, China. Proceedings of the Second International Symposium on Methodology in Hydrology held in Nanjing, China, October–November 2005. IAHS Publ. 311, 2007 424–430.
25. Makhanu K. S. and **Ong'or B.T.I.**, 2003. Design and Construction of water supply Systems, Regional Workshop on Irrigation and water Resources Engineering, AICAD, Kenya.
26. University Council Retreat 12th -17th February, 2012
27. University Council, Deans and Directors Workshop, 26th – 30th January, 2009

10. POST GRADUATE SUPERVISION AND EXAMINATION

1. Kiluva V. Mwikali –PhD in Disaster Preparedness and Engineering Management
2. Anna Muganda Ingaita- Phd in Civil Engineering (Water Engineering),
3. Nicholas Odhiambo- Msc in Water Resources Engineering
4. Munialo P Wanyonyi-Msc in Water Resources Engineering
5. Juma Shadrack Wegulo- Msc in Water Resources Engineering
6. James Odiero- Msc in Water Resources Engineering
7. Vallery Lutta- Msc in Water Resources Engineering
8. Kevin Odhiambo- Msc in Water Resources Engineering
9. Justus Owino-Msc in Water Resources Engineering
10. Sally Jeruto Chebii-Msc in Water Resources Engineering

11. Examined over 23 Masters and 6 PhD Thesis in Water Resources Engineering related areas.
12. External Examiner, Jomo Kenyatta University of Agriculture and Technology (JKUAT), Department of Biochemical and Environmental Engineering (SWEED) - May 2015 to Date.

11. MEMBERSHIP TO PROFESSIONAL BODIES

- a. Engineers Registration Board (ERB/EBK)-B3197
- b. Institution of Engineers of Kenya (IEK) - G.4458
- c. International Association of Hydrological Sciences (IAHS)-18978

12. RESPONSIBILITIES IN THE UNIVERSITY

Administrative responsibilities and accomplishments:

1. 2016 to date-***Chairman Postgraduate studies***, School of Engineering and Built Environment
2. August 2014-to July, 2015- ***Director PSSP, Learning Centres and Campuses***
3. June, 2013 to February 2014 - ***Ag. Deputy Vice Chancellor (Administration and Finance), MMUST***
4. August, 2008 to August 2014- ***Substantive Dean Faculty of Engineering, MMUST***
5. Funds mobilization of **Ksh.40 Million** for Engineering and Applied Science Graduate Computation facilities under HP project and an extension to Hafumbry Laboratory construction for connection to the e-learning system.
6. Team Leader in writing proposal leading to final award of **Ksh 384 Million** worth of Equipment for Engineering and Applied Science under the GOK/AfDB HEST QUALITY IMPROVEMENT PROJECT

Selected University Services:

1. Post-Graduate Coordinator, School of Engineering and Built Environment (2016-todate)
2. Chairman of University Tender Award Committee-2014/2015
3. Spokesperson to MMUST Council Negotiation with UASU on 2012/2013 CBA
4. Spokesperson to MMUST Council Negotiation with KUDHEIHA on 2012/2013 CBA
5. Co-ordinates and Chairs all Faculty Board meetings-2008/2014
6. Convener, Busitema University, Uganda and MMUST, 2009-201

7. Convener, WARMA –LVN and MMUST, 2008-2015
8. Convener, Zhejiang University, China and MMUST, 2009-2015
9. PSSP University Wide Board member-2008/2015
10. Deans Committee member-2008/2014
11. Core team member in ensuring MMUST is ISO 9001:2008 certified
12. Worked in various senate committees to formulate university policies, university statutes, master plan and strategic plan that govern the university management practices
13. ISO 9001:2008 QMS Internal Quality Auditor
14. ISO 9001:2008 Implementation steering committee members
15. ISO Quality Assurance Board (QAB)
16. MMUST Quality Management Representative (June 2013-Feb.2014)
17. Staff Establishment and Promotion Committee Chairman (member)
18. Focal Person in-charge of the GOK/ADB HEST QUALITY IMPROVEMENT PROJECT
19. Lead member of MMUST Performance Contract Negotiation and Evaluation Team
20. Actively participated in the establishment of Kisumu Campus and , Kapsabet Campus and KAFUCO of MMUST

13. NATIONAL AND COMMUNITY SERVICES OFFERED

1. Member of HEST GOK/ADB PROJECT: EQUIPMENT INSPECTION AND ACCEPTANCE COMMITTEE (2014 to date)
2. Member of GOK/ADB HEST Tender evaluation Committee on Support of Enhancement of quality relevance in Higher Education Science and Technology and Expression of Interest (MST/ADM/2/15 VOL 1.V of 2^{6th} April, 2013).
3. Member of BOM, Nyakach Technical and Vocational Training College (May 2019 –to-date)
4. Member of BOM, Maseno National School (2016 to date)
5. Chairman BOM of PAWTENGE Secondary School, Kisumu, Kenya (2015 to-date)
6. Chairman of Board of Governors, Nyamasaria Secondary School, Kisumu, Kenya (Sept.2009 to Sept. 2012)
7. Member of BOM Ranjira Secondary School (2016 to date)
8. Member of BOM Bishop Abiero Shaurimoyo High School (2013 to 2019)
9. Development, Formulation and Curriculum review of Engineering Programmes for PAN AFRICAN UNIVERSITIES
10. Church Layreader, St. Lukes A.C.K-Manyatta, Diocese of Maseno South, (1999 to December, 2019)

11. Ordained Clergy (Deacon-Hon.Curate), ACK, Diocese of Maseno East, December 2019 to- date.
12. Presiding Officer with Electoral Commission of Kenya (E.C.K), 2007
13. Deputy Presiding Officer with Electoral Commission of Kenya (E.C.K), 2002.

14. HOBBIES

1. Football , Athletics and Basketball

REFEREES

1. Prof. Dr. –Ing.Benedict M.Mutua, PhD.
Deputy Vice Chancellor
Planning, Partnership, Research and Innovation
Kibabii University
P.O.Box 1699-50200, Bungoma, Kenya
Tel. No. +254-735968699
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2. Prof. (Eng.) Abel N. Mayaka
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