

Dr. Peter Mulamba is a Lecturer in the Department of Agricultural and Biosystems Engineering (ABE). He has been a faculty member since 1998. Dr. Mulamba teaches a number of undergraduate and graduate courses and is heavily involved in research. His primary research interest areas are Irrigation Engineering; Soil and Water Resources Engineering; Applied Hydraulics, Hydrology & Sedimentology for micro-catchments; Climatology & hydrologic modeling; GPS, Remote sensing and GIS applications in Agricultural planning and development; Modeling & Design of Biosystems; Probabilistic methods in Engineering Design; Environmental Impact studies; Wastewater Treatment and reuse. In addition, Dr. Mulamba has extensive consulting experience, and has worked with a number of entities and projects in various consulting roles. Dr. Mulamba received his Ph.D. in Food, Agricultural and Biological Engineering, from The Ohio State University, USA in 2010. Prior to pursuing his doctorate, he earned a M.Sc. in Agricultural Engineering from Makerere University in 2001 and a B.Sc. in Agricultural Engineering from Makerere University in 1995.

### **List of Selected Publications**

1. Kyagulanyi J., Banadda N., Mulamba P., Kiggundu N. and Muyonga J., Estimation of spatial and temporal grain amaranth water requirement using satellite, local and virtual weather stations data sets. *International Journal of Agricultural and Biological Engineering*, Accepted, 2015.
2. Denis Bbosa, Banadda N. and Mulamba P. Bio-Remediation and Physiochemical Interaction Of Soils Contaminated With Diesel. *The Open Environmental Engineering Journal*, Vol. 5: 44-49, 2012.
3. Kyeyune, S. and Mulamba P. Modeling Jambo wastewater treatment system to predict water re-use options. *AJEST Vol. 9(3): 192-201, 2014*

### **Selected Accomplishments**

1. National Consultant/ Institutional Level/Regulation and Policy Analysis for promoting Investment in Agricultural Water
2. Management (AgWA) in Uganda/ Funded by FAO & GoU / November 2014- March 2015.

3. Irrigation Engineer, GPS/GIS Expert & Team leader/ Assessment and Design of Small-Scale irrigation systems in 6 Districts under the Global Climate Change Alliance (GCCA) project in Sembabule, Nakasongola, Nakaseke, Luwero, Kiboga and Mubende Districts (Uganda)/ Funded by FAO / March –October 2015.
4. Team Leader & Consulting Agricultural Engineer/ Community Agricultural Infrastructure Improvement Programme-3 (CAIIP-3) Feasibility study and Technical design of Agro-processing Facilities in 78 Sub-Counties in Central and Western Uganda/ Funded by African Development Bank (AfDB) & MoLG (Uganda) / February 2015.
5. Hydrologist, Remote sensing, GPS & GIS Specialist; Team member/ Environmental Impact Assessment for the proposed DAS Inspection Laboratory at Entebbe Airport, Uganda/ Urban Research & Training Consultancy E.A Ltd (URTC), Uganda / 2015.
6. Hydrologist/Soil & Water Resources Engineer/ Detailed Feasibility Study and design of irrigated agricultural developments at Ruimi, Ibuga and Mubuku Prison Farms in Kasese district, Uganda/ Funded by GoU/BECS Engineers/ 2015.
7. Hydrologist, Remote sensing, GPS & GIS Specialist and Project Manager/coordinator at BOWI Engineering (U) Ltd./ Environmental impact assessment for the proposed Stone-Tile Manufacturing Industry: Uganda Granite & Mable Industries Limited (UGaMIL) at Kyaggwe, Mukono District, Uganda/2015.
8. Hydrologist, Remote sensing, GPS & GIS Specialist and Project Manager/coordinator at BOWI Engineering (U) Ltd./ Environmental impact assessment for the proposed Stone-Tile Manufacturing Industry: Uganda Granite & Mable Industries Limited (UGaMIL) at Kyaggwe, Mukono District, Uganda/Funded by Kuuka Investments Ltd./ 2015.
9. Hydrologist, Remote sensing, GPS & GIS Specialist/ Environmental and Social Impact Assessment (ESIA) and Development of the Environmental and Social Management Plan (ESMP) for Atari Small Hydropower Plant (ASHPP) in Kapchorwa, Uganda/ Funded by GoU/ Environpower/ 2015