THE TECHNICAL UNIVERSITY OF KENYA

Haile Selassie Avenue, P.O. Box 52428, Nairobi, 00200, Tel +254(020) 343672, 2249974, 2251300, 341639

Fax 2219689, Email: vc@tukenya.ac.ke, Website: www.tukenya.ac.ke

NAME: PROF JOHN NYIRO MWERO



Current Designation:	Associate Professor, DEPARTMENT OF CIVIL AND RESOURCE ENGINEERING (DCRE)
Office Telephone:	+254(020) 2219929, 3341639, 3343672
Official Email:	johnmwero@tukenya.ac.ke
Consultation Hours:	8AM-5PM MON - FRI

EDUCATION

LEVEL	QUALIFICATION NAME	INSTITUTION	YEAR
Doctor of Philosophy (PhD)	CIVIL ENGINEERING	UNIVERSITY OF NAIROBI(Kenya)	2013
Masters of Science (M.Sc.)	CIVIL ENGINEERING	UNIVERSITY OF NAIROBI(Kenya)	2008
Bachelor of Science (BSc)	CIVIL ENGINEERING	UNIVERSITY OF NAIROBI(Kenya)	2002
O level/Equivalent	KENYA CERTIFICATE OF SECONDARY EDUCATION	ST. GEORGE'S HIGH SCHOOL, GIRIAMA(Kenya)	1995

SELECTED PUBLICATIONS

TITLE	LINK TO PUBLICATION	YEAR
Behavior of Reworked Steel Reinforcement Bars in Reinforced Concrete.	View online	
Laterized Quarry Dust and Crushed Bricks as Alternative Concrete Making Materials (2017)	View online	
Palm Kernel Shell as Partial Replacement for Normal Weight Aggregagte in Concrete (2017)	View online	
Effects of Palm Kernel Shell and Rice Husk Ash as Partial Replacements of Normal Weight Aggregate and ordinary Portland Cement in Concrete (2017)	View online	

POSTGRADUATE STUDENTS SUPERVISION

NAME	PROJECT TITLE	PERIOD
Babatunde Olawale Yusuf (Phd, PAUSTI)	Experimental, numerical and analytical investigations of the effect of material compositions on the behavior of waste plastic binder composite for construction purposes	2019 - 2023 (Completed)
Theogene Ndabamenye (PhD, PAUSTI)	Effect of Waste Tyre Steel Fibers on the Structural Performance of High Strength Reinforced Concrete Flat Slabs with Openings Near the Column	2022 - 2026 (Completed)
Ngaelle Dorivice Nkapa Moffo (MSc, PAUSTI)	Performance of Silica Fume or Silica Flour on Preventing Strength Retrogression Phenomenon in Hardened Cement Paste and Mortar at Elevated Temperature	2020 - 2023 (Completed)
Hassan Said (MSc, UoN)	Evaluation of the Properties of Geopolymer Concrete with the Addition of Bamboo Leaf Ash as a Natural Pozzolanic Material	2020 - 2023 (Completed)
Achini Isaiyah Kiburi (MSc, UoN)	Effect of Mixing Methods on Plastic and Hardened Properties of Low Water-Binder Ratio Concrete	2015 - 2023 (Completed)
Oliko Cyprian (MSc, JKUAT)	Rice Straw and Egg Shell As as Partial Replacements of Cement in Concrete	2015 - 2023 (Completed)
Abla Marie-Josée Nadège Kougnigan (MSc, PAUSTI)	Thermal Insulation Performance Simulation of Concrete Blocks Incorporating Waste Plastic Bottles	2020 - 2023 (Completed)
Mogire Philip Osiemo (PhD, UoN)	Simulation Model for Prediction of the Service Life of Water Retaining and Conveyancing Structures with Vapour Phase Corrosion Inhibitors and Rust Convertor	2016 - 2021 (Completed)
Loonturot P. Sankale (MSc, JKUAT)	The use of wheat straw ash as a partial replacement of cement in concrete	2014 - 2017 (Completed)
Okeola Abbas (MSc, PAUSTI)	Behaviour of Sisal Fibre Reinforced Concrete in Exterior Beam-Column Joints Under Monotonic Loading	2017 - 2018 (Completed)
Maithulia C. Kanyithia (MSc, UoN)	Assessment of Quality Control Practises for In-Situ Concrete: Case Study of Nairobi City County	2015 - 2020 (Completed)
Muthomi Munyua (MSc, UoN)	Effect of Carbon Fiber Reinforced Polymer Strengthening on the Axial Capacity and Ductility of Non-Slender Square Concrete Columns	2017 - 2021 (Completed)
Oluwaseye Onikeku, (PhD, PAUSTI)	Rheological Assessment of Bamboo Leaf Ash – Ordinary Portland Cement for Structural Applications	2017 - 2019 (Completed)
Namakula Hidaya (MSc, PAUSTI)	Effect of sugarcane baggase ash on the physical and mechanical properties of bulked plastic fiber reinforced concrete	2016 - 2018 (Completed)
Ezekiel S. Philips (MSc, PAUSTI)	Effect of palm kernel shells and rice husk ash on the physical and mechanical properties of normal weight concrete	2016 - 2018 (Completed)
Nounagnon A. V. (MSc, PAUSTI)	Analysis of Engineering Properties of Laterite Bricks Reinforced with Pineapple Leaf Fibres	2017 - 2018 (Completed)
Djima M. (MSc, PAUSTI)	Effect of Concrete Made with Lime Treated Palm Kernel Shell and Sugar Cane Bagasse Ash	2017 - 2018 (Completed)
Nkouka, J. F. N. (MSc, PAUSTI)	Effect of Treated Borasus Aethiopium Mart Fiber on the Phyisical and Mechanical Properties of Hollow Block Motar	2017 - 2018 (Completed)
Manyara P. O (MSc, JKUAT)	Structural performance of concrete with waste glass as part fine aggregates, and wood ash as an admixture	2016 - 2019 (Completed)
Fouad El Ame (MSc, PAUSTI)	Performance of Reinforced Concrete Beams with Un-Reinforced Openings Loaded in Shear and Bending	2018 - 2020 (Completed)
Oni D. Oluwabusayo (MSc, PAUSTI)	Performance of Cassava Starch Modified Reinforced Concrete in Shear and Flexure	2018 - 2019 (Completed)
Alladjo Rimbarngaye (MSc, PAUSTI)	Effects of Gum Arabic as Partial Replacement of Cement on the Structural Performance of Laterite Blocks	2019 - 2021 (Completed)
Geoffrey K. Sang (MSc, UoN)	Investigating the Potential Use of Tuff Aggregates to Produce Lightweight Concrete	2015 - 2021 (Completed)
Bassirou Kone (MSc, PAUSTI)	Effect of Cassava Starch and Rice Husk Ash on Physical and Mechanical Properties of Concrete	2019 - 2022 (Completed)
Millicent Njau (MSc, PAUSTI)	Effect of Temperature and Relative Humidity on the Self-Healing Efficiency of Bacteria and Fly Ash in Concrete	2020 - 2022 (Completed)
Abdinafa Mohamud Abdi (MSc, UoN)	Experimental Study on the Influence of Mogadishu Manufactured Sand on the Engineering Properties of Concrete	2018 - 2022 (Completed)
David Sinkhonde (MSc, PAUSTI)	Structural Performance of Rubberised Concrete Incorporated with Burnt Clay Brick Powder as Partial Cement Replacement	2019 - 2021 (Completed)
Ofwa Thomas Omolo (MSc, UoN)	Evaluating Superplasticizer Compatibility in Production of High Performance Concrete using Portland Pozzolana Cement CEMII/B-P	2016 - 2022 (Completed)
Ahouefa Reine Katte (PhD, PAUSTI)	Performance Prediction of Palm Kernel Shell Concrete with Nano Palm Oil Waste Ash as a Supplementary Cementitious Material	2019 - 2023 (Completed)
Bernard Adjei Antwi-Afari (PhD, PAUSTI)	Experimental and Numerical Study of the Effect of Fiber Treatment on the Mechanical Properties and Durability of High Strength Concrete Reinforced with Sisal Fibers	2020 - 2025 (Completed)
Victor Amanyire (MSc, PAUSTI)	Effect of Different Layouts of Shear Connectors on the Flexural Performance of Steel Concrete Composite Beams	2021 - 2024 (Completed)
Vincent Odhiambo Odhiambo (MSc, UoN)	Effect of Bacillus subtilis Bacteria on Mechanical Properties and Crack Remediation of Limestone Calcined Clay Cement Concrete	2019 - 2024 (Completed)
Ezekiel Maarita Ogega (MSc, UoN)	Evaluation of Creep in Lightweight Concrete Containing Tuff Aggregates	2019 - 2024 (Completed)
Musonda Joshuah (MSc, PAUSTI)	Performance of Unplasticised Polyvinyl Chloride Reinforced Concrete-Filled Subjected to Thermal Cyclic Loading	2023 - 2025 (Completed)
Odarkor Diody Nah (MSc, PAUSTI)	Assessing the Structural Performance of Sisal Fibre Mat Retrofits for Post-Fire Damaged Beams	2022 - 2025 (Completed)
Nyabuto Onderi Andrew (MSc, UoN)	Effects of Alow Vera Mucilage as a Superplasticizer on the Performance of Self Consolidating Concrete	2019 - 2025 (Completed)
Gervany Mboungou Londe (PhD, PAUSTI)	Numerical Model for Predicting Crack Propagation and Fracture Toughnessof Coconut Fibre ReinforcedHigh-Strength Concrete	2020 - 2025 (Completed)
Lewin M. Khaoya (MSc UoN)	Effects of Volcanic Tuff Use on the Rheological and Mechanical Properties of Self Compacting Concrete	2016 - 2025 (Completed)
Asmait H. Sium (MSc, PAUSTI)	Effect of Depa-Vine (Cissus Integrifolia) Latex Extract on Lime Mortar for Restoration of Heritage Buildings: A Case Study of Fort Jesus, Mombasa, Kenya	2021 - 2025 (Completed)
Kioko C. K. Paul (PhD, UoN)	Modelling Peak Particle Velocity Attenuation Using Multi-Parameter Analysis	2019 - 2025 (Completed)

PROFESSIONAL AFFILIATIONS AND SOCIETIES

TITLE	INSTITUTION
Corporate Member (M 3623)	Institute of Engineers of Kenya (IEK)
Consulting Engineer (E427)	Engineers Board of Kenya (EBK)