



INTERNATIONAL MEETING OF DOCTORAL STUDENTS IN CIVIL ENGINEERING (EIDEIC 2022)



NAME: EBENEZER YIWO

ACADEMIC LEVEL: 2ND YEAR

NATIONALITY: GHANAIAN

RESEARCH DOMAIN: FLOOD RESILIENCE

PROGRAM/DEPARTMENT: (PDIC)

Achievement of Competences

- Perceptions of flood drivers in Ghana and mitigation measure
(Accepted for Publication <https://doi.org/10.1016/j.ijdrr.2022.102990>)
- Conference Oral Presentations(submitted abstract to the NHC2022 conference (in Tallinn, Estonia, 15-18 August 2022))
- Experimental works at Ladicim Lab(organisation of the manuscript for submission)
- Trainings(transversal and analytical tools)

KNOWLEDGE ACQUISITION

- a. Ascertaining perceptions of flood drivers in Ghana and suggesting mitigation measure
- b. Investigating permeable pavements by replacing aggregates with indigenous Ghanaian Palm Kernel Shells (PKS)

CAPACITY DEVELOPMENT

- a. Farmilarizing with recent statistical tools(Software)
- b. International Professional Networks

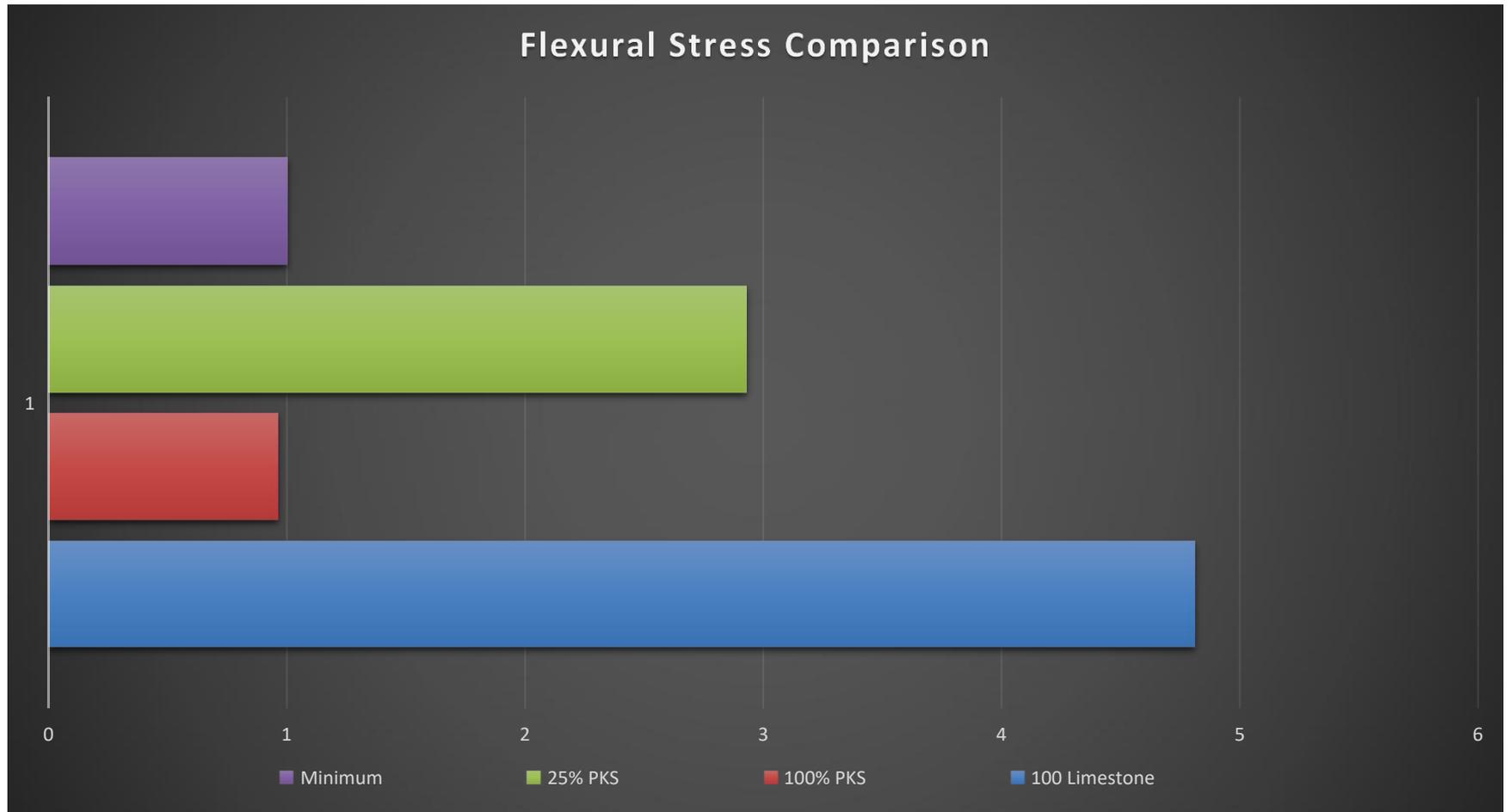
MOTIVATION FOR THESIS TOPIC



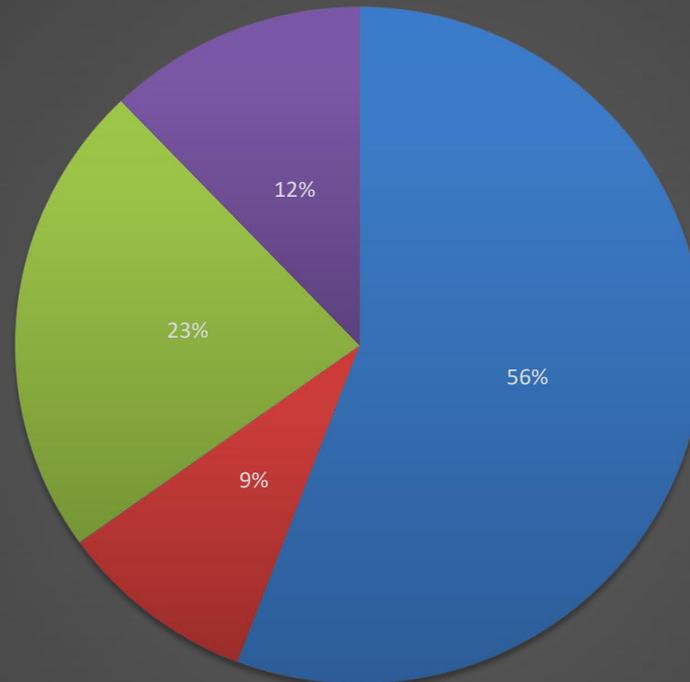
- Contributing a potential mitigation measure to flood risks
- To establish relationship or variation between Malaysian PKS(Tenera) and indigeneous Ghanaian PKS(Dura) in terms of partial replacement as aggregates for concrete
- Advocacy (Green campaigner via Green Fortland Foundation)



FLEXURAL STRESS

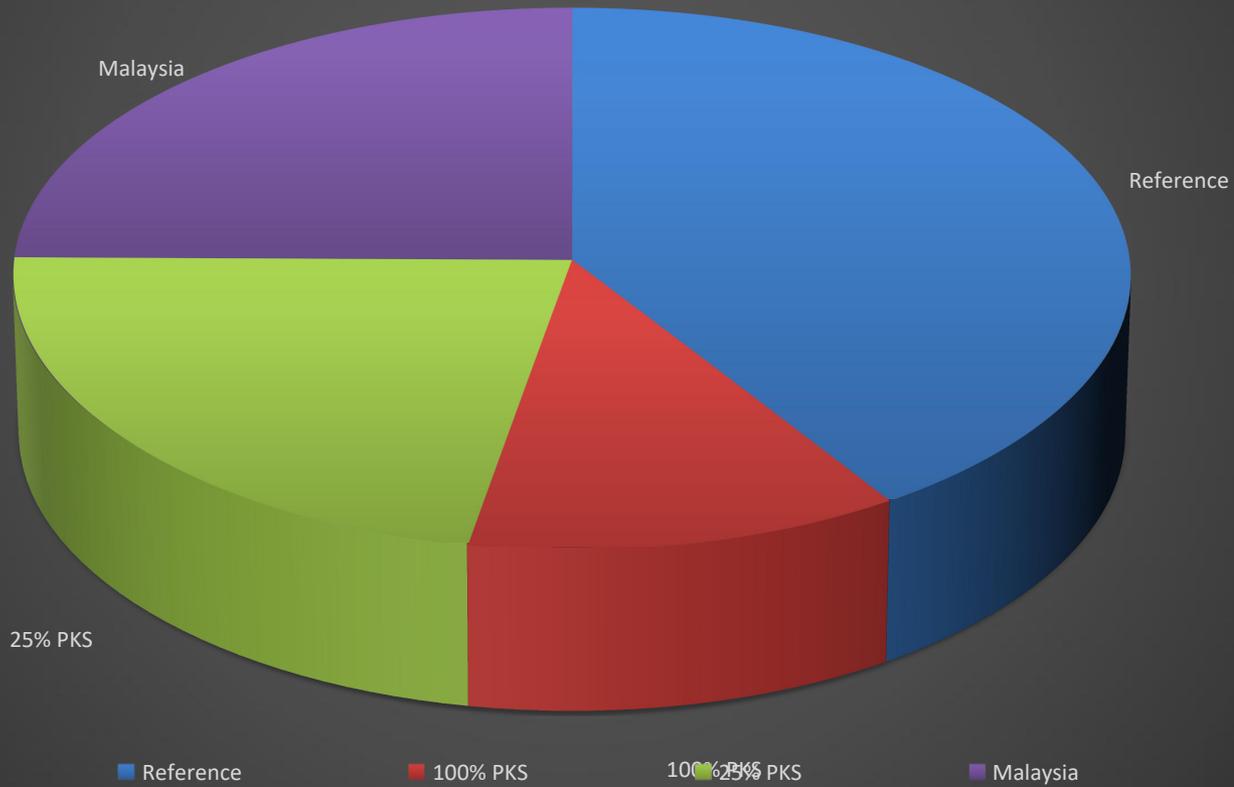


Comparing Compressive Stresses

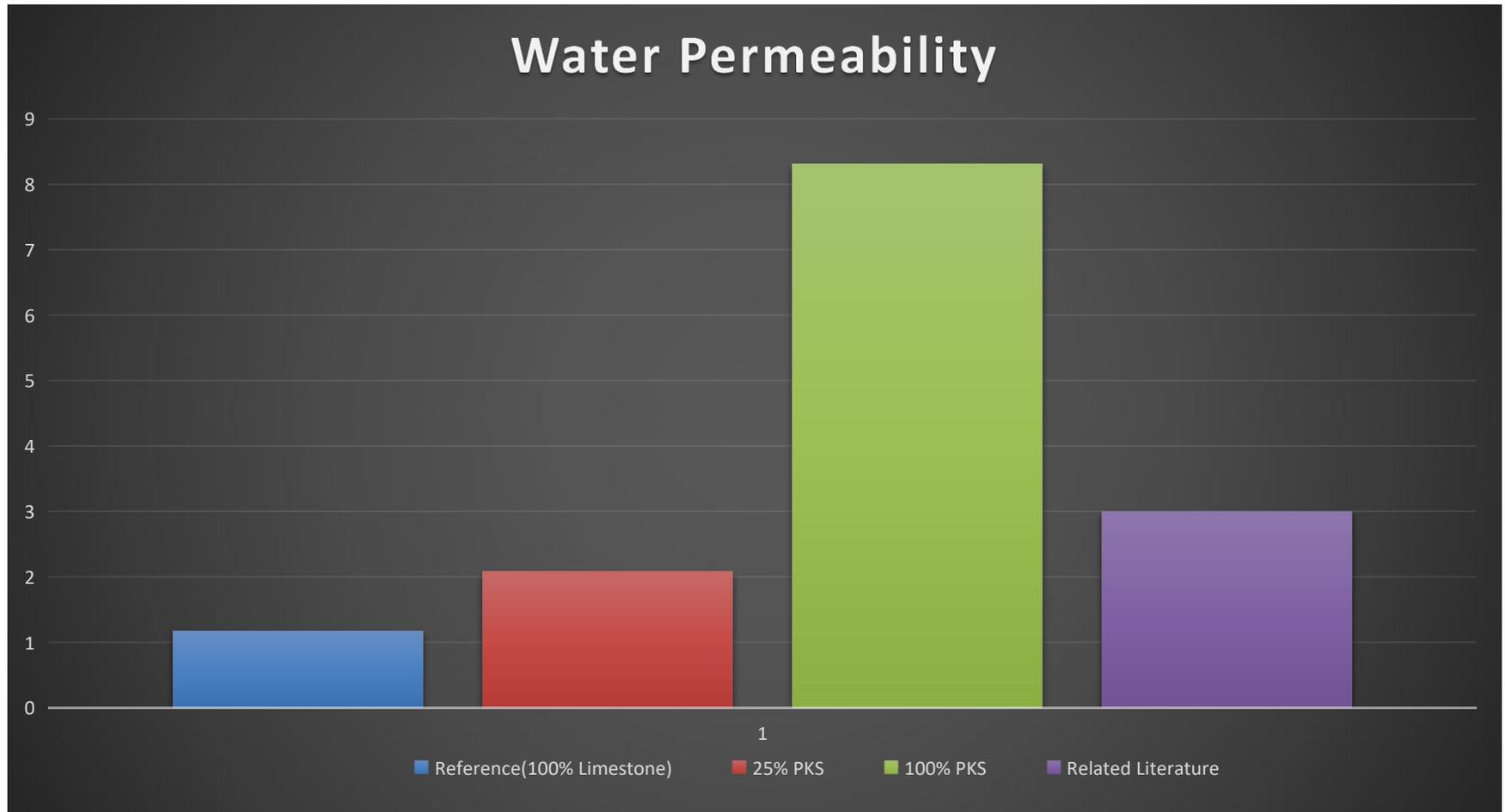


■ Reference ■ 100% PKS ■ 25% PKS ■ Malaysia

Brasilian Test



VERTICAL PERMEABILITY



EXPECTATIONS

PROJECT

- Implementation policies of permeable pavements incorporating PKS as the partial replacement aggregates
- Implementation of Sustainable Parking Space using indigenous Ghanaian variety(Dura - PKS) for Lightweight Traffic

PERSONAL

- Submission of paper II before August, 2022 for publication
- Compiling published articles by August, 2023
- Network in the pool of research and academia
- Professional Researcher

Research In Progress

Item	Activity	Date
A	Conference (Oral Presentation)	14/09/2022 - 21/11/2022
B	Literature Review	25/11/2022 - 04/01/2023
C	Introduction on Paper III	05/01/2023- 03/02/2023
D	Methodology	06/02/2023– 14/03/2023
E	Internship & Results Discussion	16/03/2023– 28/05/2023
F	CONCLUSION/SUBMISSION & CONFERENCES	03/06/2023– 05/07/2023
G	COMPENDIUM OF ARTICLES	06/07/2023- 02/08/2023