



NIGERIAN BUILDING AND ROAD RESEARCH INSTITUTE



GLOBAL TRENDS IN DESIGNS AND CONSTRUCTION FOR DURABLE ROAD PAVEMENTS

OVERVIEW OF THE INSTITUTE, CENTER FOR ADVANCED PAVEMENT TECHNOLOGY AND FUTURE DIRECTION

**By
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NBRRI's Mandate and Its Role in Driving Innovation and Policy-based Research

❖ NBRRI

Established in 1978 under the aegis of the Federal Ministry of Innovation, Science, and Technology (FMIS&T).

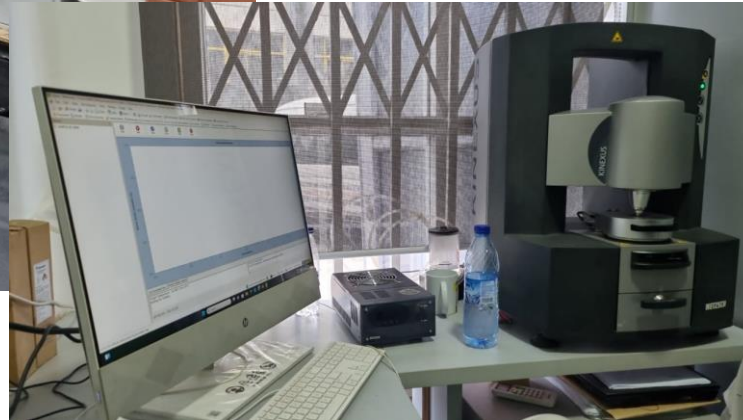
❖ CORE MANDATES

- | | |
|-----------------------------|--|
| i. local building materials | v. Architectural design |
| ii. Building performance | vi. All aspect of engineering materials |
| iii. Road design | vii. Consultancy services relating to building, road and engineering materials |
| iv. Construction methods | |



- To improve the durability and performance of Nigerian road pavements
- To provide advanced testing, research, and innovation in pavement materials
- To support government, industry, and academia with reliable laboratory data
- To reduce premature road failures through scientific investigation and design
- To promote cost-effective, sustainable, and climate-resilient pavement solutions
- To build local capacity and reduce reliance on foreign laboratories





- Superpave Mixture Technology
- Recycling and use of waste in the road sector
- Introduction of concrete Technology.
- Use of Bio-oils in pavements
- Use of polymers in pavements
- Use of Natural asphalt



Plate 1: Superpave Mixture Technology



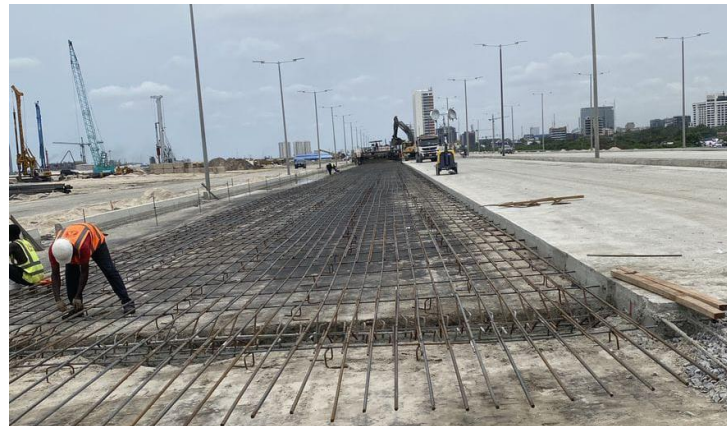
Crumb rubber



Polythene



Crumb rubber





Jatropha curcas oil

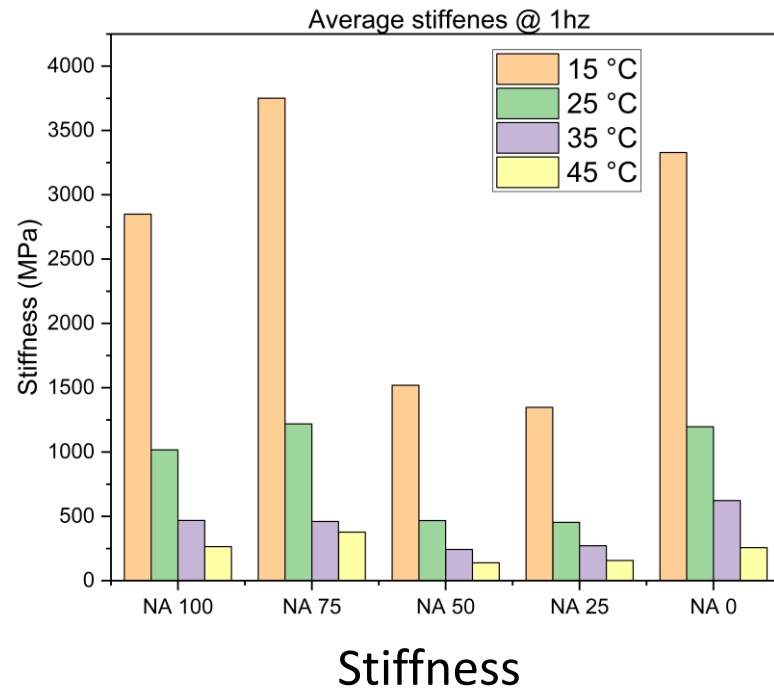
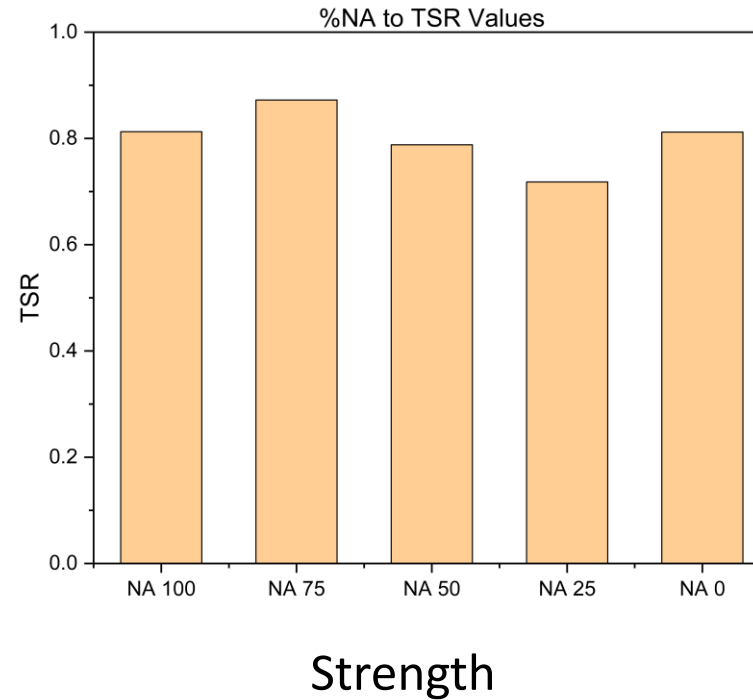
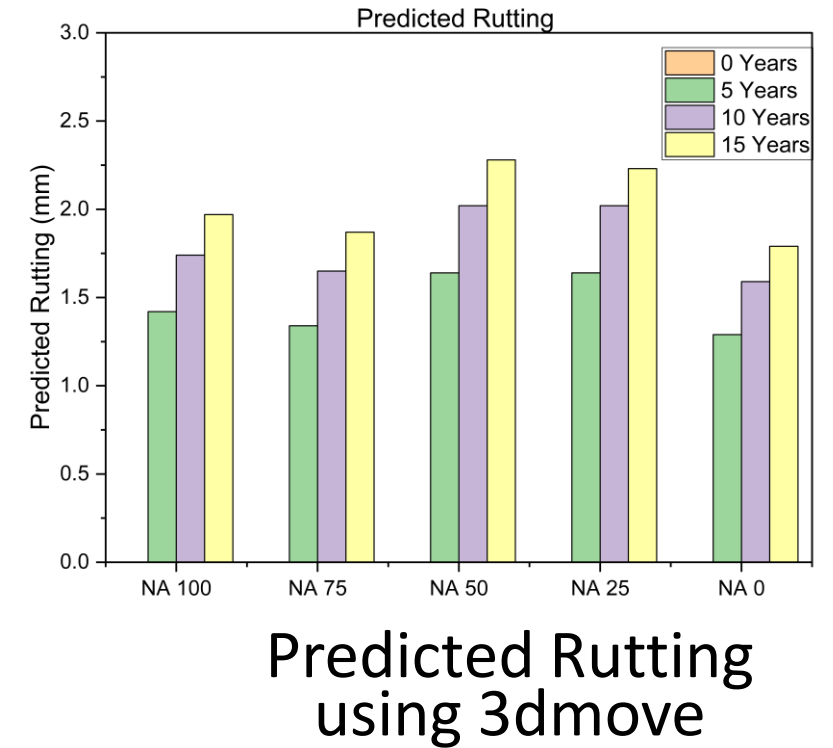


Neem oil



Locust beans oil







Registration of Participants



Welcome Address by DG/CEO NBRI



Keynote Address by Former Hon. Minister of Innovation, Science and Technology



Keynote Address by Former DG/CEO NBRI



Keynote Lecture



Keynote Lecture



Keynote Address



Keynote Address



Cross-section of Participants



Cross-section of Participants



Hands-on Training



Hands-on Training



Hands-on Training

Gallery of 2024 Workshop



Hands-on Training



Hands-on Training



Hands-on Training



Hands-on Training



Exhibition Booth Tour



THANK
YOU