



The Nigerian Society of Engineers

PORT HARCOURT BRANCH



2014 / VOLUME 231

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OCTOBER 12, 2014

Interview with Engr. Jones Nwadike FNSE on Highway

Engr. Nwadike Jones, FNSE, FNIHE, FNICE, MICE, MASCE, KSM, is the Chairman, Nigerian Institution of Highway Engineers (NIHE), Port Harcourt Chapter. Engr. Nwadike Jones is the Principal Consultant / CEO of JAPAVIS-CA ENGINEERING COMPANY LIMITED: - A consulting engineering and project management firm.



Engr. Nwadike Jones

E-Newsletter: What is Highway?

Engr. Nwadike: Highway may be defined as a thoroughfare, artery, vein, main or public road, freeway, route or pathway on land between two places, which typically may have been paved or other wise improved to allow travel by some conveyance of persons and goods from one place to another. Highway system provides the connectivity that facilitates other societal interactions.

The structural highway design aims to ensure that the highway is strong enough for the expected numbers of vehicles in a certain number of years. Traditionally, the highway design is done by civil engineers, including soil and foundation engineers and structural engineers.

E-Newsletter: What are the advantages of Highway?

Engr. Nwadike: No civilized society can survive without highway. Highway models traffic and communication. It is for agricultural purpose, it has cultural value and enhances land value greatly. It is a symbol of country's progress and has employment potential.

E-Newsletter: What are the challenges facing Highway?

Engr. Nwadike: Most highways in the nation are constructed with weak sub-base materials like clay minerals, Chikoko and black soil. The sub-base materials used in constructing highway is made up of very fine particles and mud that are rich in montmorillonite, non-tronite, be-idelite, smectite, kaolinite, vermiculite, etc. which in the presence of water under goes very high volume changes with the attendant reduction in its bearing capacity. They contain loosely bonded cat-ions, which is easily exchanged for others, according to local concentration or base-exchange.

Under repeated traffic load when the soil is saturated with water, it further deteriorates into mud/slurry and can no longer support the pavement resulting in the development of pot holes on the riding surface. Some of the consultants used in highway design are not qualified and may not be able to design quality highways. Qualified consultants should be used in highway design, management, supervision and control.

There is need to upgrade highways by removing weak sub-base and installing a new highway sub-base with free-draining / non expensive materials comprising of 60 – 150 cm thick sharp-river sand, 15cm thick, 20 – 100 mm granite chippings and surface dressing with 50mm – 75mm thick asphalt to sustain seemingly high traffic loads.

E-Newsletter: Thank you sir.



L-R: Mr. Mohammed Bashir (National Coach of the Cycling Federation of Nigeria), Engr. Denis Dania FNSE, Engr. Adekunle Mokuolu FNSE (Vice President of NSE), Engr. Emeka Ozioko FNSE (Chairman, National Engineering Games 2014) & Engr. Kombo Theophilus-Johnson FNSE (Chairman NSE Port Harcourt Branch) during the National Engineering Games Cycling Competition that was held on Sunday 12th October 2014 in Port Harcourt



World Engineering Conference on Sustainable Infrastructure,
2nd - 7th November 2014, Abuja-Nigeria.
Theme: Development of Sustainable Infrastructure in Africa
<http://www.wecsi2014.org>





Photo Right: L-R: Engr. Kombo Theophilus-Johnson FNSE (Chairman NSE Port Harcourt Branch), Engr. Emeka Ozioko FNSE (Chairman, National Engineering Games 2014), Engr. Prof. H. I. Hart FNSE, Engr. Denis Dania FNSE, Engr. F. C. Ogolo FNSE and Engr. B. J. Benibo FNSE on Saturday 11th October 2014 during the Dinner that preceded the Cycling Competition.

Photo Left: L-R: Engr. Kombo Theophilus-Johnson FNSE (Chairman NSE Port Harcourt Branch), Engr. Denis Dania FNSE, Engr. Chief Giandomenico Massari FNSE & Engr. Emeka Ozioko FNSE (Chairman, National Engineering Games 2014) at the starting point of the National Engineering Games Cycling Competition that was held on Sunday 12th October 2014 in Port Harcourt.



The 7th Prof. Y. O. Beredugo Annual Lecture was held on Thursday 9th October 2014 in Port Harcourt. The eminent lecturer was Engr. Nathaniel Iboroma who presented a paper titled “The Challenges of Managing Civil Engineering Firms in Nigeria”. In photo, Engr. Etteh I. Etteh FNSE (left) and Engr. Prof. Y. O. Beredugo FNSE, OFR, KSC, FAEng (middle).



On Thursday 9th October 2014, the Executive Committee of the Nigerian Society of Engineers Port Harcourt Branch paid a courtesy visit to Mr. Weli Igor, General Manager Nigerian Content of SPDC who was represented by the Head, Nigerian Content of SPDC Engr. Osikhena Ojior (4th from left). The Chairman of Port Harcourt Branch was represented by the Vice Chairman Engr. Emmanuel Idoniboye MNSE (5th from right).



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NOTICE! NOTICE!! NOTICE!!!

All members of NSE Port Harcourt Branch should pay their Annual Branch Dues of N5000 for Corporate Members and N7,500 for Fellows to UBA Account No. 1000183629 (Port Harcourt Main Branch). Also pay National Annual Subscription of N9,000.00 for Corporate Members & N11,500 for Fellows directly to First Bank Account No. 2020502052 & forward all tellers to the secretariat for reconciliation. All payments should be made into the bank accounts.