



# Nigerian Civil Engineers Newsletter

A Newsletter of the Nigerian Institution of Civil Engineers

.....SUSTAINING THE WORLD'S INFRASTRUCTURE

(A Division of the Nigerian Society of Engineers)

MARCH, 2022

## **NICE Marches Forward: The National Chairman, Engr. Dr. Jang C. Tanko FNSE FNICE, Leads NICE Delegates to pay a courtesy visit to CCECC**



NICE National Chairman, Engr. Dr. Jang Chuwak Tanko, FNSE, FNICE, MASCE visit to the Executive MD, CCECC, Abuja Office on the 9th March, 2022



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Facebook: Nigerian Institution of Civil Engineers



## VISION

**Our vision is that the Nigerian Institution of Civil Engineers shall be a world-renowned body which will be a pride to all Civil Engineers in Nigeria.**

## MISSION

- ♦ **To make unique contributions to the development process of the country by constituting itself such that it would be a reservoir of civil engineers with specialized knowledge, experience and skill, constantly updated through the highest standards of continuing professional development programmes.**
- ♦ **To establish and maintain standards and codes for the practice of Civil Engineering.**
- ♦ **To be constantly in touch with the Government at all levels, for necessary inputs and contributions to policies and matters affecting members and the development of the profession.**
- ♦ **To encourage the study of and research in Civil Engineering and bridge the gap between industry and Institutions involved in Civil Engineering Research.**
- ♦ **To relate with and promote cooperation with similar professional organization the world over.**



## Editor's Pen



**D**ear Distinguished Civil Engineers, we present to you another interesting edition of our newsletter.

This edition features the activities of Our Various Chapters in the month of March, 2022.

### NICE Marches Forward:

The delegates of the Nigerian Institution of Civil Engineers led by the National Chairman, Engr Dr Jang Chukwak Tanko FNSE FNICE paid a courtesy visit to the CCECC to discuss about the prospects of a joint venture agreement for the development of NICE Landed Property located in Abuja .

NICE Port Harcourt held her Annual Conference and General Meeting while NICE Abuja , Jalingo and Lagos Chapters featured the technical Sessions at their meeting for the month of March.

We also celebrate with our former National Chairman- Engr Dr. Aishatu Umar FNSE FNICE NSE - VICE

PRESIDENT on her appointment as Continental Representative for Africa for the World Council of Civil Engineers .

NICE also felicitate with Engr Mustapa Balarabe Shehu FNSE FNICE FAEng as the World Engineering Organizations President Elect

Also we congratulate our NICE Ogun State past Chairman- Engr Dr. Kolawole Olonade as he jointly won the Royal Society Research Grant for a project titled - developing Modular Interlocking bricks and blocks with the entire waste reuse model in Nigeria and United Kingdom.

Stay tuned as NICE Marches Forward by making impact all over the world.

**Engr. Dr. Omolola Adetona, FNICE**  
Editor-in-Chief



### N.I.C.E 2021 EDITORIAL COMMITTEE

S/N	NAME	POST	MEM. NO.
1	Engr. Dr. Tanko C. Jang, FNSE FNICE	NC & Adviser	0964
2	Engr. Lola Adetona MNSE FNICE	Chairman/ Editor in chief	1351
3	Engr. Robbie James Owivry FNSE FNICE	Member	1028
4	Engr. Sharafadeen Olumoh FNSE FNICE	Member	2446
5	Engr. Emeka Ibeh MNSE MNICE	Member	2937
6	Engr. Donald Okeke MNSE MNICE	Member	1268
7	Engr. Nyam Samson Sanusi MNSE MNICE	Member	2683
8	Engr. Fuludu Gabriel Perezide MNSE MNICE	Member	2418
9	Miss Olayemi Ojofetimi	Asst. Secretary	NA
10	Mr. Bright Ochiabuto	Secretary	NA

### OFFICE ADDRESSES

#### Headquarters:

8th Floor, Labour House, Central Business District, FCT-Abuja.

#### Lagos Annex:

2nd Floor, Suite 2 Front Wing, Oshopey Plaza, 17/19, Allen Avenue, Ikeja, Lagos State.



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## NICE AWARDS

- ◆ Best Division of NSE 2001
- ◆ 3<sup>rd</sup> Best Division of NSE, 2010
- ◆ 3<sup>rd</sup> Best Division of NSE, 2011
- ◆ 5<sup>th</sup> Best Division of NSE, 2012
- ◆ 2<sup>nd</sup> Best Division of NSE, 2013
- ◆ Best Division of NSE, 2014
- ◆ Best Division of NSE, 2015
- ◆ 2<sup>nd</sup> Best Division of NSE, 2016
- ◆ 2<sup>nd</sup> Best Division of NSE, 2017
- ◆ 2<sup>ND</sup> Best Division of NSE 2018
- ◆ 2<sup>nd</sup> Best Division of NSE, 2019
- ◆ 2<sup>nd</sup> Best Division of NSE, 2020
- ◆ 2<sup>nd</sup> Best Division of NSE, 2021



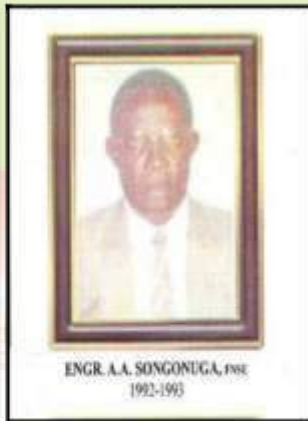
# PAST NATIONAL CHAIRMEN



ENGR. (REV.) M.O. AKINTOBI, FNSE  
1984-1989



ENGR. DR. J.O. SONUGA, FNSE  
1989-1991



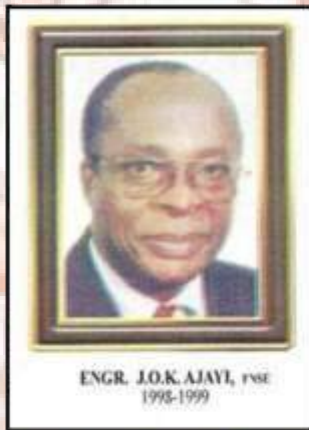
ENGR. A.A. SONGONUGA, FNSE  
1992-1993



HRH (OBA) ENGR. A.S. SALISU, FNSE  
1994-1995



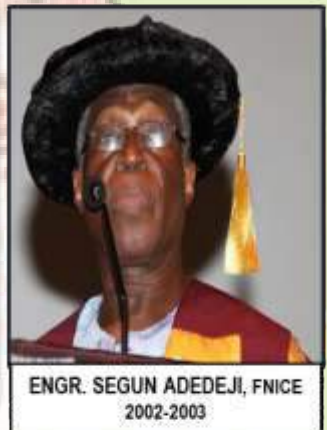
ENGR. A.I. OSEMENAM, FNSE  
1996-1997



ENGR. J.O.K. AJAYI, FNSE  
1998-1999



ENGR. H.O.B. LAWAL, FNICE  
2000-2001



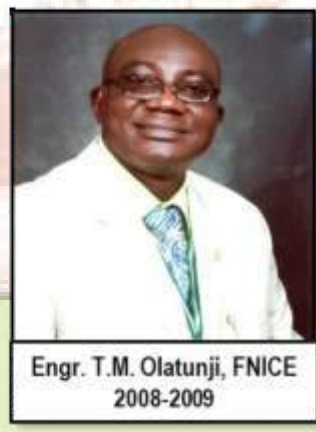
ENGR. SEGUN ADEDEJI, FNICE  
2002-2003



ENGR. SEN. FEMI KILA,  
FNICE  
2004-2006



Engr. B.E. Ojum, FNICE  
2007-2008



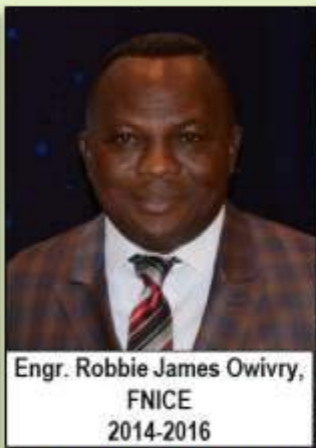
Engr. T.M. Olatunji, FNICE  
2008-2009



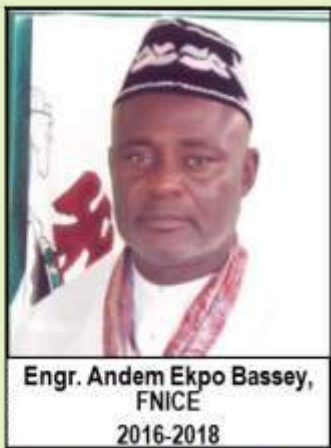
Engr. A.A. Omopeloye, FNICE  
2009-2012



Engr. S.A. Lawal, FNICE  
2012-2014



Engr. Robbie James Owivry,  
FNICE  
2014-2016



Engr. Andem Ekpo Bassey,  
FNICE  
2016-2018



Engr. Aishatu Umar, FNICE  
2018-2020



# 2021/2022 NICE NATIONAL EXECUTIVES



Engr. Mrs. Aishatu A. Umar, FNSE, FNICE  
Former Immediate Past National Chairman



Engr. Dr. Jang C. Tanko, FNSE, FNICE  
National Chairman



Engr. Chukwudi Ezugu, FNSE, FNICE  
Deputy National Chairman



Engr. Olumoh Sharafdeen A., FNSE, FNICE  
National Vice Chairman



Engr. Sonny E. Alli, FNSE, FNICE  
National Vice Chairman



Engr. Adetokunbo A. Ajanaku FNSE, FNICE  
National Vice Chairman



Engr. Dawood A. Kelani, MNSE, FNICE  
Ex-Officio



Engr. (Sir) Alexander I. Onichabor, MNSE, FNICE  
Ex-Officio



Engr. Bukar Kadai, MNSE, FNICE  
Ex-Officio



Engr. Boaz T. David, FNSE, FNICE  
Ag. Executive Secretary



## The Nigerian Institution of Civil Engineers PORT HARCOURT CHAPTER



invites you  
to her  
**2021**  
Conference/  
**AGM**




WITH PAPER PRESENTATION TITLED:

### LABORATORY INVESTIGATION INTO THE CATASTROPHIC FAILURE OF REINFORCED CONCRETE COLUMNS.

 TUES. 22ND MARCH, 2022

 3:00pm Nigeria Time

 Engr. Prof. Y. O. Beredugo Hall,  
Engr. Ishmael Banigo Secretariat,  
Water works Yard,  
3 Bernard Carr Street, Port Harcourt.

Meeting ID: 816 0768 1474  
Passcode: 507266



GUEST LECTURER:  
**ENGR. DR.  
SOLOMON T. ORUMU,**  
FNICE, MNSE

**THE RESCHEDULED NICE PORT-HARCOURT CHAPTER 2021  
CONFERENCE AND AGM HELD ON 22ND OF MARCH, 2022**





**THE RESCHEDULED NICE PORT-HARCOURT CHAPTER 2021  
CONFERENCE AND AGM HELD ON 22ND OF MARCH, 2022**





# NICE GENERAL MEETING/TECHNICAL SESSION HELD AT MaW Jalingo, Taraba State



# NICE ABUJA CHAPTER DRONE CONSTRUCTION WORKSHOP



The Drone Sample



Drone Workshop Facilitator



Participants at the Drone Construction Workshop, NICE Abuja Chapter



Group Photographs after the Drone Construction Workshop, NICE Abuja Chapter

# The Inauguration of World Federation of Engineering Organizations (WFEO)

President Elect; Engr. Mustapha Balarabe Shehu, FNSE, FAEng



Inauguration group pictures



F-L: NSE President, Engr. TSG Wudil,.....  
 Engr. Mustapha Balarabe Shehu, WFEO, President Elect.

Inauguration group pictures



President Elect and Wife



President Elect and immediate past President



President Elect and Engr. Mrs. Aishatu A. Umar



# *Congratulatory Messages*

# ENGINEERING

## TELEGRAPH

# *Congratulations!*

We join the  
Engineering Family  
in Congratulating

ENGR. MUSTAFA BALARABE  
**SHEHU**, FNSE, FAEng

EXECUTIVE VICE PRESIDENT, WORLD FED. OF ENGINEERING ORGS.  
PAST PRESIDENT, FED. OF AFRICAN ENGINEERING ORGANIZATIONS  
PAST PRESIDENT, THE NIGERIAN SOCIETY OF ENGINEERS

ON HIS ELECTION AS THE



# PRESIDENT ELECT

## World Federation of Engineering Organizations

*This is a victory for the entire engineering family across the globe and a testament to your unflinching commitment to the ideals of the engineering profession.*

*We wish you a successful tenure in office.*

# CONGRATULATIONS

POWERED BY THE ENGINEERING TELEGRAPH

For Adverts and Publicity, Please call 09 291 5884, 08060037227

Follow us on facebook via [https://web.facebook.com/engineeringtelegraph/?modal=admin\\_todo\\_tour](https://web.facebook.com/engineeringtelegraph/?modal=admin_todo_tour) or @engineeringtelegraph

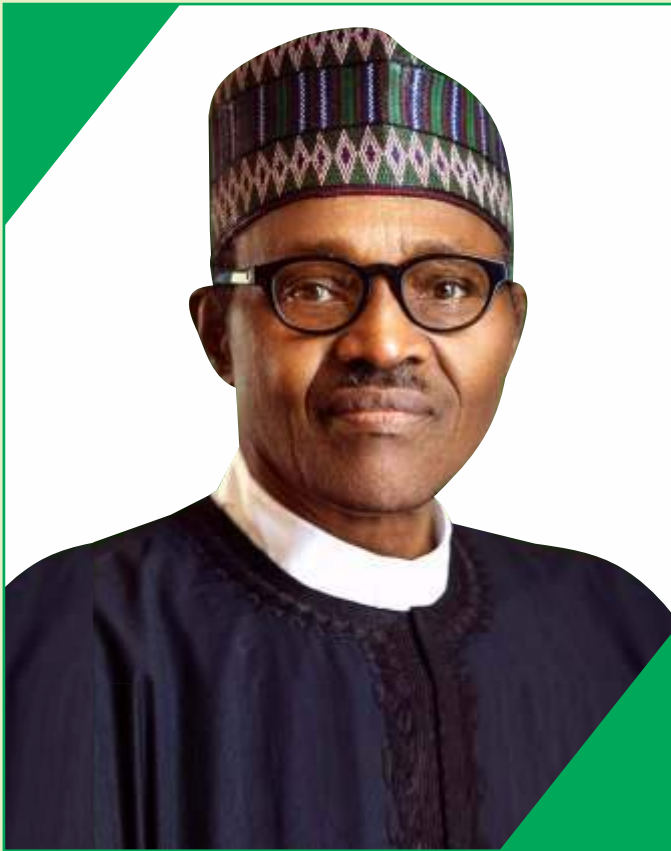




# Buhari Hails Mustafa Shehu

## World Engineering Organizations President-Elect

Published on March 15, 2022 By Wale Odunsi



**P**resident Muhammadu Buhari has congratulated Engr Mustafa Balarabe Shehu on his election as President-elect, World Federation of Engineering Organizations (WFEO).

The 59-year-old outgoing Vice President was formerly President of the Nigerian Society of Engineers (NSE).

The President hailed the overwhelming endorsement of the Kano indigene by the members of the body at the World Engineering summit in Costa Rica.

He called it “a testament to his passion for the field of human endeavour as well as his

dedication towards ensuring a better lease of life for Nigerians especially rural dwellers”.

Buhari urged him to use his wealth of experience and contacts to address issues bedeviling the profession in the country.

The nation's leader pointed out collapsed buildings and improvement in the energy sector.

**“He wishes the accomplished and multiple award-winning Electrical Engineer a successful tenure”**, presidential spokesman Femi Adesina noted.

<https://dailypost.ng/2022/03/15/buhari-hails-mustafa-shehu-world-engineering-organizations-president-elect/>

# Celebration of An ICON



*Congratulations on your*  
**APPOINTMENT**  
as **CONTINENTAL**  
**REPRESENTATIVE FOR AFRICA**  
**(WORLD COUNCIL OF**  
**CIVIL ENGINEERS)**

**Engr. Dr. Aishatu A. Umar,**  
FNSE, FNICE, FCAI, FIMC, M.ASCE, NSE-VICE-PRESIDENT &  
Continental Representative for Africa  
(World Council of Civil Engineers)

## DR KOLAWOLE OLONADE JOINTLY WINS ROYAL SOCIETY RESEARCH GRANT



**UNILAG DON,  
DR. KOLAWOLE OLONODE**  
jointly wins  
**ROYAL SOCIETY RESEARCH GRANT**  
for a project titled:  
*Developing modular interlocking bricks and  
blocks with the entire waste reuse model in  
Nigeria and United Kingdom.*

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UNILAG Nigeria

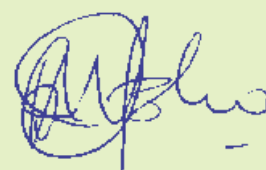


**Dr. Kolawole Adisa Olonode** of the Department of Civil Engineering has jointly won a Royal Society research grant with Dr. Ruoyu Jin of the London South Bank University for their project on: Developing modular interlocking bricks and blocks with the entire waste reuse model in Nigeria and UK. The project is expected to start from 11th March, 2022 and end on 10th March, 2024. The grant award has a value of £12,000 (twelve thousand pounds). The Vice-Chancellor, Professor Oluwatoyin Ogundipe, FAS, congratulates Dr. Olonode on his achievement, on behalf of all staff and students of the university.

<https://unilag.edu.ng/?p=12646>

## HIGHLIGHTS FROM NICE 1ST COUNCIL MEETING IN YEAR 2022 HELD VIRTUALLY ON 10TH MARCH, 2022 AT 4:36PM

- National Chairman Congratulated BOT Chairman, CPC and LOC Chairmen, EXCO and all Council members for the Success of NICE 2021 International Conference and AGM held in Asaba, Delta State between 13th – 15th October, 2021.
  - National Chairman also Appreciated the Governor of Delta State for his financial and moral support and for being physically present at the Occasion.
  - Letter of appreciation has been forwarded to the Governor of Delta State by NICE Secretariat
  - NC appreciated Julius Berger and the Sponsors of our Technical Visit to 2nd Niger Bridge Site in Onitsha, Anambra State during NICE AGM and International Conference on 15th Oct 2021
  - **NC Lauded the Following Committees for their performance in year 2021:**  
Professional Development Committee; Conference planning Committee (CPC); Group Dynamics Committee, Technical Committee; Editorial Committee; Codes and Standards Committee; Building Collapse Prevention Committee International Affairs Committee and Membership Committee. He encouraged them to do more in year 2022.
  - International Affairs Committee is planning an International trip to California in USA for the International Conference of ASCE ( American Society of Civil Engineers ) & Annual Meeting and Egypt in Africa, date and detailed itinerary to be rolled out soon.
  - Renewal of NICE MOU with ASCE will be achieved during this annual meeting therefore it is necessary that this is Approved by Council and a lot of NICE Council Members to be represented at the event .
  - Council approved NICE Abuja Land Development Committee Set-up by National Chairman
  - Council approved 2022 Ad-hoc Committees, the Committee members are to be inaugurated soon by National Chairman
  - NICE MEMART has been filed with CAC, approval is being expected and will be followed up ASAP. The IPNC will be advised to help with this assignment.
  - Updates on NICE landed properties: the Abuja Land is to be worked on, the fence is to be raised higher, gate and security house to be built and a design is to be developed, land documents to be perfected while we Source for funds.
  - Council approved Bye-laws committee, Committee members to be set-up soon
  - Lagos Chapter got Council approval for 2022 AGM & International Conference hosting right
  - BOT Chairman Congratulated the National Chairman and his Executive Team for their brilliant performance in the year 2021
  - BOT Chairman Appreciated the former IPNC who handed-over good batten to the National Chairman and for ensuring good performance.
  - National Chairman and some NICE Members paid courtesy visit to CCECC on 9th March, 2022, support for NICE Journal publication, Secretariat Building, Training and employment of Nigerian Young Engineers topped the discussions.
  - National Chairman briefed on the Election of Engr. (Dr) Aishatu Aliyu Umar as the Continental Representative for Africa in WCCE.
  - National Chairman, BOT Chairman, all PNCs, and all Council Members Congratulated Engr. (Dr) Aishatu Aliyu Umar on her election as the Continental Representative for Africa in World Council for Civil Engineers.
  - Congratulation to Engr. (Dr) Lola Adetona on her Successful Surgery and subsequent healing.
  - BOT Chairman suggested welfare packages for NICE members and Elders during sickness as a support system . NC promised to take this into consideration.
  - 2nd Engr. U.G Jibrin Distinguished Public Lecture is to hold on 19th May, 2022 in Abuja, FCT.
  - 2nd U.G Jibrin Distinguished Public Lecture Committee is to be Set-up immediately.
  - NICE National Chairman to pay courtesy visit to Julius Berger Ltd
  - NICE to pay courtesy visit to Executive Governors of Ondo and Kogi States. Issues to be discussed borders on partnership on Open Defecation, Eradication.
- The meeting ended by 8.45pm**



**Signed by**  
**Engr. Boaz Toluwatope David, FNSE, FNICE, ACARB.**





## PAST NATIONAL CHAIRMEN

1.	EngrH.O.B.Lawal, FNSE, FNICE	-	08056125497
2.	EngrSen.AdefemiKila, FNSE, FNICE	-	08037879791
3.	EngrBenOjum, FNSE, FNICE	-	08181700015
4.	EngrDrT.M.Olatunji, FNSE, FNICE	-	08033059527
5.	Engr.S.A.Lawal, FNSE, FNICE	-	08100585697
6.	Engr.RobbieJ.Owivry, FNSE, FNICE	-	08033230754
7.	Engr.AndemEkpo-Bassey, MNSE, FNICE	-	08058559067
8.	Engr.AishatuA.Umar, FNSE, FNICE	-	08033156025

## CURRENT EXECUTIVE COMMITTEE

1.	Engr.Dr.JangC.Tanko, FNICE	-	NationalChairman
2.	Engr.V.C.Ezugu, FNICE	-	DeputyNationalChairman
3.	Engr.AjanakuAdetokunbo, FNICE	-	NationalViceChairman
4.	Engr.SharafadeenOlumoh, FNICE	-	NationalViceChairman
5.	Engr.SundayE.Ali, FNICE	-	NationalViceChairman
6.	Engr.KelaniDawood, FNICE	-	Ex-officio
7.	Engr.BukarKadai, FNICE	-	Ex-officio
8.	Engr.AlexandarOnichabor, FNICE	-	Ex-officio
9.	Engr.DavidT.Boaz, FNICE	-	Ag.Exec.Secretary

## CHAPTER CHAIRMEN

S/N	Chapter	FullName	Started In	Phone	Email
1	Warri	Engr.AliSundayEmeka, FNICE	2019	08054024445	sonyali2010@ymail.com
2	Osun	Engr.OluwaemiMathewOlarinoye, MNICE	2020	08033857546	mathew02@gmail.com
3	PortHarcourt	Engr.IsokariariTubonimiJohnsons, FNICE	2021	08033384091 803384091'08084	nimijohnson@yahoo.com
4	Lagos	EngrBolarinwaOlawaleAyodele, FNICE	2021	08022252921	olawale_bolarinwa@yahoo.com
5	Jos	Engr.BeedeeBott, FNICE	2020	08034518867	bottbeedeemusa@gmail.com
6	Ilorin	Engr.OshanisiOlatunji, FNICE	2019		sanisipatnersltd@yahoo.com
7	Calabar	Engr.JeromeEgbe, MNICE	2018	08033324525	jeromelina2011@yahoo.com
8	Benin	Engr.OmoregieEhigieArmstrong, FNICE	2020	07026273065	Amstrongomoregie001@gmail.com
9	Akure	Engr.EliotAkinsipe, MNICE	2018	09084980567	elliotakinsipe2004@yahoo.com
10	Abuja	Engr.MachuAlanBala, MNICE	2020	08036568292	machuab1@gmail.com
12	Yenegoa	Engr.EdoghotuBoyibimJonah, MNICE	2021	08036774286	edoghotu_boyibim@yahoo.com

13	Asaba	Engr.FuluduGabrielPerezide,FNICE	2019	07031656058	Zide2026@gmail.com
14	Maiduguri	Engr.Mohammedwatsada,FNICE	2022	08036706710	watsada_1@yahoo.com
15	Awka	Engr.DavidChizobaOkeke,MNICE	2020	08064254536	daveman4uk@yahoo.com davetarget@gmail.com
16	Adamawa	Engr.TarfaAbdullahiFarouk,FNICE	2020	08065919160	Engrfarouk2011@gmail.com
17	Bonny	Engr.GodknowsC.Dikibugerere,FNICE	2016	08037029466	cliffordgodknows@gmail.com
18	Janligo	EngrLuntsiJimmyJohnso,MNICE	2021	08034637336	jjluntsi@gmail.com
19	Abakaliki	Engr.ChibuzorOgbonnahAmadi,FNICE	2016	08065110064	Yuzzyhomeslimited2@yahoo.com
20	Bauchi	Engr.UsmanAbubakar,FNICE	2020	08036174622	uabubakar66@yahoo.com
21	Kaduna	Engr.KelaniDawood,FNICE	2021	08023709495	kelanidawood@gmail.com
22	Katsina	Engr.FalaluHussaini,MNICE	2020	08066202459	falaluh@gmail.com
23	Kano	EngrProf.AhassanHashimMohammed,FNICE	2021	08103102219	hmalhassan.civ@buk.edu.ng
24	Ogun	Engr.MajolagbeA.Olaniyi,MNICE	2020	08034275700	abdulfataimajolagbe2005@yahoo.com
25	Markudi	Engr.ArenyiMoneMoses,MNICE	2019	08036174338	Mmaenyi@gmail.com
26	Yobe	EngrHarunaKabiruDamagun,MNICE	2019	08022469475	Kabirudam@yahoo.com
27	Ibadan	Engr.AdekunleOlaoye,FNICE	2020	08034011894	adekunleolaoye@yahoo.com
28	Gombe	Engr.DamonRobertson	2020	07030352663	rdamon59@gmail.com
29	Minna	Engr.SaiduMohammed	2021	08034506678	mbasaidu@gmail.com
30	Enugu	Engr.FestusIgboekwu	2021	08037736659	



## **NIGERIAN INSTITUTION OF CIVIL ENGINEERS (NICE) ANNUAL SUBSCRIPTION GENTLE REMINDER!**

Dear Distinguished Fellows, Corporate Members and Senior Colleagues,  
Annual subscription becomes due on the 1st of July of each year, in accordance with articles 17 and 18 of the Articles of Association of Nigerian Institution of Civil Engineers (NICE).

For those of us who are yet to pay their Subscription for last year and/or that of 2022/2023 year, pls reach out to the Ag. Executive secretary Engr B. T. David on 08037154335.

Kindly pay the subscription into this account.

**Account name :** Nigerian Institution of Civil Engineers.

**Bank name:** Zenith bank.

**Account no :** 1010515768

### **NICE National Annual Subscription are as follows:**

- A. Fellow: N10,000:00
- B. Corporate Members: N5,000:00
- C. Graduate Members: N2000.00

Do send evidence/proof of payment via [icenigerian@yahoo.com](mailto:icenigerian@yahoo.com) or whatsapp to 07062070193 Mr Bright and 08028583114 Mr Nasiru for the issuance of your payment receipt.

Thank you.

Kindly accept the highest esteem regard of our National Chairman.

**Engr. Boaz Toluwatope David FNSE, FNICE, ACArb.**  
Ag. Secretary.



# Optimized Flood and Storm Water Management

## *Principles and Processes*

Engr. Christian Okwori, CEng., MNSE, NIEE

Director, Advanced School of Power, Oil and Gas, Nigeria

Vice Chairman, Nigerian Society of Engineers, Victoria Island Branch

Former GM, Energy and Infrastructure Investment at CRCCII Africa and Middle East

## Perennial Flooding

Lagos



Aba



## Synopsis

01

OVERVIEW  
CHALLENGES  
MYTH AND REALITIES  
NIGERIAN SITUATION  
THE LAGOS PERSPECTIVE

02

STRATEGIES  
PRINCIPLES  
PROCESSES  
PANACEA

03

OPPORTUNITIES  
RECOMMENDATION  
CONCLUSION  
Q & A

## Overview of Flooding and Stormwater

- ❑ Nigeria's flooding situation and stormwater drainage challenges have been a long lingering and progressively worsening with the last 30 years presenting the most adverse and precarious occurrence following records of high rainfall and drastic changes in environmental conditions
  - ❖ 60% of forest land lost to indiscriminate felling of trees
  - ❖ Heightening water stress and sinking coastal lands by Lagos alone has lost 0.6m of its height in the last 40 years
  - ❖ Unplanned physical developments
  - ❖ Structural obstruction of flood planes
  - ❖ Aggressive depletion and reclamation of swamp land and green zones
  - ❖ Widening infrastructure gaps with proliferation of shanties and slums
  - ❖ Poor waste disposal and impediment of drainages
- ❑ With no comprehensive and coordinated plan or structure at all levels of society and government in place to curtail the situation aside reactionary management of consequence, the future only looks bleak with damning global climate change slowly and surely taking its tolls on mother earth.

## Challenges

1. Climate change
2. Indiscriminate and poorly regulated physical planning and shanties
3. Deforestation and desert encroachment
4. Worsening erosion crisis
5. Erosion
6. High siltation of waterways and canals
7. Inadequate drainage system
8. Poor waste disposal and blockage of drainage systems
9. Poor management of water hyacinth and weeds on waterways and canals restricting drainage
10. Poor regulatory framework and enforcement
11. Weak interagency interface and collaborations

## Water Hyacinth Menace Challenge or Opportunity?



[https://drive.google.com/file/d/129ictXUFFG4W-fJ7dmo\\_XrzZ81eKD-RR/view?usp=drivesdk](https://drive.google.com/file/d/129ictXUFFG4W-fJ7dmo_XrzZ81eKD-RR/view?usp=drivesdk)



## NIGERIAN INSTITUTION OF CIVIL ENGINEERS

### LAGOS CHAPTER

Sustaining the world's Infrastructure

A Division of The Nigerian Society of Engineers



Cordially invite you to her  
**MONTHLY GENERAL MEETING FOR MARCH 2022**

Technical Presentation on:



**FACILITATOR:**  
 Engr. Emmanuel Awonto Mosugu  
 MNSE

# CEMENT APPRECIATION in the Nigerian Built Industry. (The Lafarge Perspective)

Engr Emmanuel Mosugu is a registered Civil Engineer, he is a consultant structural engineer to SOWREAL Estate Developments, Abuja and DE MONTFORT UNIVERSITY, LEICESTER, UK On Low-Cost Sustainable Home Prototype for Developing Countries (Paibe, Abuja-Nigeria, as a Case Study) 2017.  
 Engr Emmanuel Mosugu, is currently the Key Account Manager – Northern Nigeria Operation of Lafarge Africa Plc. He is happily married with children.

**CEMENT APPRECIATION  
 in the Nigerian Built Industry.  
 (The Lafarge Perspective)**

Technical Presentation @  
 NICE, Lagos Chapter.

29th MARCH 2022  
 ENGR. EMMANUEL MOSUGU

A member of  
 LafargeHolcim

### WHAT IS CEMENT?

- The 'glue' that holds the components of concrete and mortar together...
- Cement is a hydraulic binder  
*i.e. a finely ground inorganic material which, when mixed with water, forms a paste which sets and hardens by means of hydration reactions and processes and which, after hardening, retains its strength and stability even under water.*
- Most common types in Nigeria are:



- CEM II/A-L 42.5N (or R); (Powermax, Supaset, Dangote 3X, BUA)
- CEM II/B-L 32.5R; Elephant Classic, Falcon
- CEM I 52.5 grade, SRC

Cement sold in Nigeria is typically made up of:

- Clinker: the active ingredient
- Limestone: Inert filler provides good surface finish and assist in hydration
- Gypsum: To control setting times



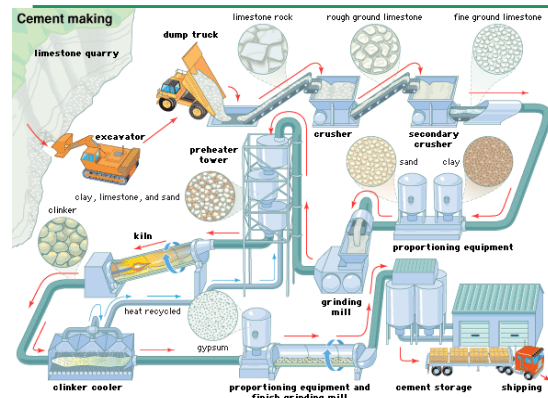
2

### CEMENT MANUFACTURING EXAMPLIFIED



3

### CEMENT MAKING PROCESS



4

To read more: [https://drive.google.com/file/d/1JoYzwZ\\_X1DyPsTBkS4ERoAA2ay\\_4mdVU/view?usp=drivesdk](https://drive.google.com/file/d/1JoYzwZ_X1DyPsTBkS4ERoAA2ay_4mdVU/view?usp=drivesdk)



**National Chairman, Engr. Dr. Jang Chuhwak Tanko, FNSE, FNICE, MASCE, NICE BOT Chairman, Engr. Sen. Femi Kila and some Members of NICE paid condolence visit to Engr. Dr. Mrs. Aisha Umar Aliyu, FNSE, FNICE, MASCE, NICE (IPNC) over the Death of her husband on the 21st March, 2022**



NICE entourage in a group photograph with Engr. Dr. Mrs. Aishatu Umar Aliyu during the condolence visit.

NICE National Chairman, presenting NICE letter of condolence to Engr. Dr. Mrs. Aishatu Umar Aliyu in her Abuja Residence



**COREN**

**Council for the Regulation of  
Engineering in Nigeria**

Announces the

**30<sup>th</sup>**

**ENGINEERING  
ASSEMBLY**

Theme:

**DOMESTICATION AND DEVELOPMENT  
OF CODES, STANDARDS AND  
REGULATIONS AS A PANACEA  
FOR ENGINEERING INFRASTRUCTURAL  
FAILURES IN NIGERIA**

Date: Monday, 8th – Wednesday, 10th August, 2022  
Venue: International Conference Centre (ICC), Abuja  
Time: 9.00am daily

### REGISTRATION FEES

#### CATEGORY

Engineers & Technologists  
Technicians and Craftsmen  
Non-Engineering Personnel  
Spouse

#### EARLY BIRD FEE

On or before 30th June, 2022

N45,000  
N25,000  
N60,000  
N3,500

#### LATE REGISTRATION

From 1st July, 2022

N55,000  
N25,000  
N70,000  
N3,500

