



The Nigerian Society of Engineers

2025 INTERNATIONAL ENGINEERING CONFERENCE, EXHIBITION AND ANNUAL GENERAL MEETING

IBADAN 2025



THEME

ENGINEERING INNOVATION FOR A SUSTAINABLE BLUE ECONOMY

Date: Monday 1st - Friday 5th December, 2025

Venue: The International Conference Centre,
University of Ibadan, Ibadan, Oyo State.

PROGRAMME OF EVENTS

Our Journey to Zero Routine Flaring

- A story of commitment, innovation and collaboration



OML100 Odudu

A Net Zero Company by 2050, together with society.



Access to clean energy is also one of the ways we encourage the development of sustainable cities and protect the environment.

Achieving zero routine flaring across our operations in Nigeria, reflects our commitment to delivering less carbon-intensive energy and supports the Nigerian government's goal of fostering a low carbon economy.



Achievement of zero routine flaring in all our operations in Nigeria





HIS EXCELLENCY
BOLA AHMED TINUBU, GCFR
President, Commander-in-Chief of The Armed Forces
Federal Republic of Nigeria.
Distinguished Guest of Honour



HIS EXCELLENCY
SEN. KASHIM SHETTIMA, GCON, (FNSE)
Vice President, Federal Republic of Nigeria



HIS EXCELLENCY
ENGR. CHIEF OLUSEGUN OBASANJO, GCFR, FNSE
Former President of Nigeria
Special Guest of Honour



HIS EXCELLENCY
ENGR. SEYI ABIODUN MAKINDE, FNSE
The Executive Governor of Oyo State
Chief Host



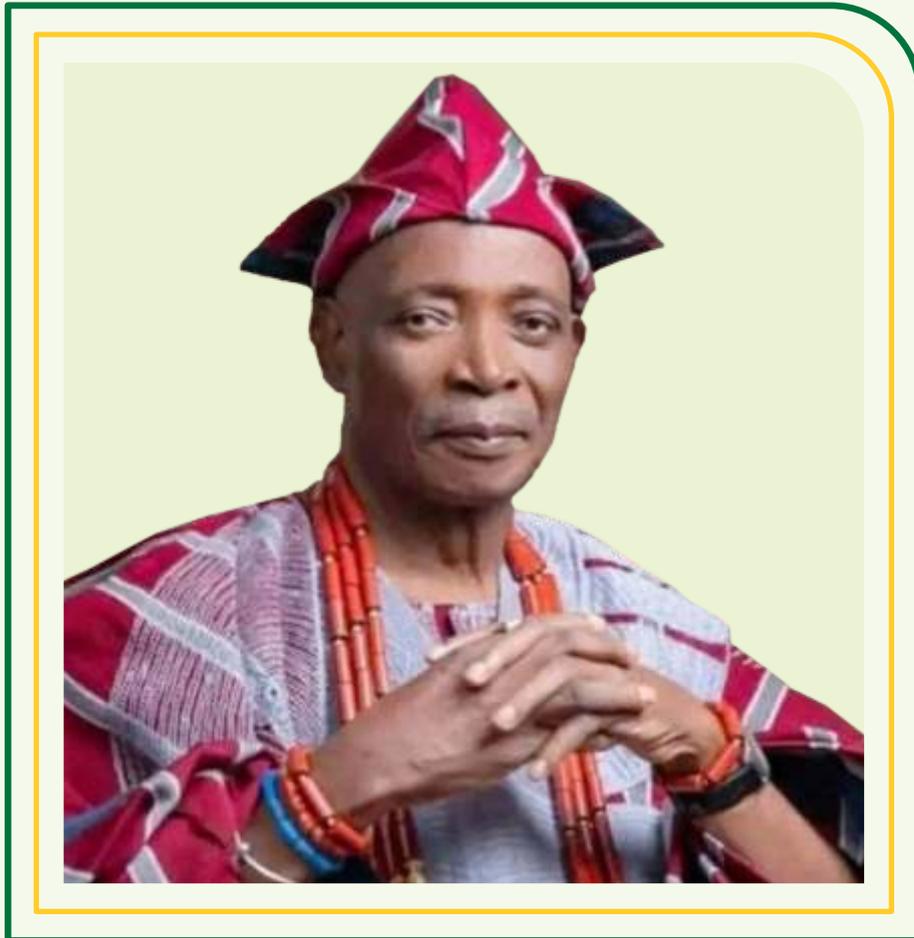
HIS EXCELLENCY
ENGR. PROF. BABAGANA UMARA ZULUM, mni, FNSE
The Executive Governor of Borno State
Guest of Honour



HIS EXCELLENCY
MR. ADEGBOYEGA ISIAKA OYETOLA, CON
Honourable Minister of Marine and Blue Economy
Keynote Speaker



ENGR. MARGARET AINA OGUNTALA, FNSE
PRESIDENT/CHAIRMAN IN-COUNCIL
The Nigerian Society of Engineers



HIS IMPERIAL MAJESTY,
OBA ENGR. RASHIDI ADEWOLU LADOJA (ARUSA I), FNSE
OLUBADAN OF IBADANLAND



HIS IMPERIAL MAJESTY,
OBA ABIMBOLA AKEEM OWOADE I
IKU BABA YEYE, ALAAFIN OF OYO



HIS ROYAL MAJESTY,
OBA YUSUF ADEBORI ADELEYE, OON
OLUBAKA OF OKA-AKOKO



NATIONAL ANTHEM

Nigeria, we hail thee,
Our own dear native land,
Though tribe and tongue may differ,
In brotherhood we stand,
Nigerians all, and proud to serve
Our sovereign Motherland.

Our flag shall be a symbol
That truth and justice reign,
In peace or battle honour'd,
And this we count as gain,
To hand on to our children
A banner without stain.

O God of all creation,
Grant this our one request,
Help us to build a nation
Where no man is oppressed
And so with peace and plenty
Nigeria may be blessed.

THE PLEDGE

I pledge to Nigeria my Country
To be faithful, loyal and honest
To serve Nigeria with all my strength
To defend her unity
And uphold her Honour and Glory
So help me God.



OPENING CEREMONY PROGRAMME

Venue: International Conference Centre, Ibadan, Oyo State

Date: Tuesday, 2nd December, 2025

TUESDAY, 2ND DECEMBER, 2025

Time	Activity
8:00am - 6:00pm	Registration
8:00am - 9:40am	Arrival of Delegates and Guests
9:40am -9:45am	Arrival of NSE President, Engr. Margaret Aina Oguntala, FNSE & Members of the Executive Committee
9:45am - 9:50am	Arrival of the Chief Host, Executive Governor, His Excellency, Engr. Oluseyi Makinde, FNSE
9:50am - 9:55am	Arrival of the Special Guest of Honour His Excellency, Engr. Chief Olusegun Obasanjo, GCFR, FNSE
9:55am - 10:00am	Arrival of the Distinguished Guest of Honour His Excellency, Asiwaju Bola Ahmed Tinubu, GCFR and First Lady, Senator Oluremi Tinubu, CON
10:00am - 10:03am	National Anthem
10:03am - 10:05am	Opening Prayer
10:05am - 10:15am	Recognition of Dignitaries/Setting of Protocols
10:15am - 10:20am	Welcome Address by the Chairman, Conference Planning Committee, Engr. Mutiu Odesanya, FNSE
10:20 am –10:30am	Opening Address by the NSE President, Engr. Margaret Aina Oguntala, FNSE
10:30am –10:40am	Address by Chief Host, His Excellency, Engr. Seyi Makinde, FNSE
10:40am -10:55am	Fellowship Conferment Ceremony
10:55am -11:00am	Interlude for Photographs
11:00am -11:05am	Entertainment by Cultural Troupe
11:05am - 11:15am	Keynote Speech by the Hon. Minister of Marine and Blue Economy, His Excellency, Adegboyega Isiaka Oyetola, CON
11:15am – 11:25am	Special Awards: a) Innovation Competition b) JETS Competition c) Conference Partners d) 2025 NEXT Gen Innovation Challenge
11:25am - 11:30am	Entertainment by Cultural Troupe
11:30am - 11:35am	Goodwill Message by President, World Federation of Engineering Organisations (WFEO), Er. Dr. Seng Chuan-Tan



TUESDAY, 2ND DECEMBER, 2025

Time	Activity
11:30am - 11:55am	Goodwill Messages
11:55am - 12:05pm	Remarks by Special Guest of Honour, Former President, His Excellency, Engr. Chief Olusegun Obasanjo, GCFR, FNSE
12:05pm - 12:20pm	Address by the Distinguished Guest of Honour, President, Federal Republic of Nigeria, His Excellency, Bola Ahmed Tinubu, GCFR
12:20pm - 12:25pm	Vote of thanks by the Executive Secretary, Engr. Abubakar Halilu Mu'azu, FNSE
12:25pm	National Anthem
12:30pm	Closing Prayer
12:30pm	Opening and Tour of Exhibition
1:00pm	Refreshments and Lunch Break



2025 EXECUTIVE COMMITTEE MEMBERS



Engr. Margaret Aina Oguntala, FNSE
PRESIDENT/CHAIRMAN-IN-COUNCIL



Engr. Ali Alimasuya Rabiu, FNSE, FAEng
DEPUTY PRESIDENT



Engr. (Dr.) Halimat S. C. Adediran, FNSE
VICE PRESIDENT



Engr. Felicia Nnenna Agubata, Ph.D, FNSE
VICE PRESIDENT



Engr. Ibrahim Aliyu Dutsinma, FNSE
VICE PRESIDENT



Engr. Aluyah Dauda Okodugha, PhD, FNSE
VICE PRESIDENT



Engr. Rachel Serumun Ugye, FNSE
VICE PRESIDENT



Engr. Usman Tijjani, FNSE, mni
VICE PRESIDENT



Engr. Usman Abdu Abubakar, FNSE
EXCO MEMBER



Engr. Dr. Ndifon Mbeh Agbiji, FNSE
EXCO MEMBER



Engr. Abraham Aghadike, FNSE
EXCO MEMBER



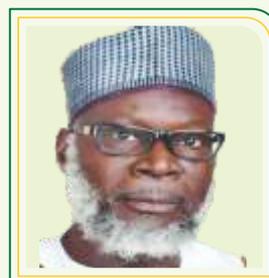
Engr. Tijjani Dayyabu, FNSE
EXCO MEMBER



Engr. Dauda Musa, FNSE
EXCO MEMBER



Engr. Prof. Olumide M. Ogundipe, FNSE
EXCO MEMBER



Engr. Tasiu Sa'ad Gidari-Wudil, FNSE, mni
IMMEDIATE PAST PRESIDENT



Engr. Abubakar Halilu Mu'azu, FNSE
EXECUTIVE SECRETARY



The Nigerian Society of Engineers

VISION

The Nigerian Society of Engineers shall be one of the very best Engineering Professional bodies in the World

MISSION

The Nigerian Society of Engineers is dedicated to providing quality services aimed at enhancing professional competence and development of its members at all times.

The Nigerian Society of Engineers is committed to focus collaboration with, influencing and providing quality advice to the various arms of Government, Industry, Commerce, academia and the Society at large, for the purpose of uplifting the country as a whole.

The Nigerian Society of Engineers shall make meaningful contributions to the advancement of technology worldwide.



Certificate NG25/00000020

The management system of

THE NIGERIAN SOCIETY OF ENGINEERS



Plot 1035, National Engineering Center, Off Labour House-National Mosque Road, Central Business District, Abuja - FCT, Nigeria

has been assessed and certified as meeting the requirements of **ISO 9001:2015**

For the following activities

Membership Services, Continuing Professional Development, Engineering Education, Stakeholders Engagement and Advocacy

This certificate is valid from 23 July 2025 until 22 July 2028 and remains valid subject to satisfactory surveillance audits.
Issue 1. Certified since 23 July 2025

Authorised by
Daniel Willemin
Accreditation Manager

Authorised by
Jan Meemken
Head of Business

SGS Société Générale de Surveillance SA
Technoparkstrasse 1, 8005, Zurich, Switzerland
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The Nigerian Society of Engineers

QUALITY POLICY

The Nigerian Society of Engineers (NSE) is committed to providing high-quality, value-driven services that enhance professional standards, promote competence development, and uphold ethical engineering practice across all levels of membership.

WE STRIVE TO

- Continuously advance the engineering profession through structured capacity-building programmes, knowledge exchange, and innovation-driven initiatives;
- Foster strategic collaboration with government, industry, academia, and society to influence policy, drive national development, and promote public trust in the engineering profession;
- Meet all applicable statutory, regulatory, and stakeholder requirements, including the evolving professional needs and expectations of our members;
- Ensure continual improvement of our quality management system through data-driven decision-making, effective leadership, and inclusive member engagement.

This policy provides the foundation for our quality objectives and reflects our unwavering dedication to operational excellence, professional relevance, and national development.



BRIEF HISTORY OF NSE

INTRODUCTION

Founded in 1958, The Nigerian Society of Engineers (NSE) is the umbrella organization for the Engineering Profession in Nigeria. Like some of its counterparts in other professions, the Society has distinguished itself through progressive and imaginative programmes to become the avenue for true professional development of its members as well as the technological development of the country.

OBJECTIVE

The objective of the Society is to promote the advancement of Engineering Education, Research and Practice in all its ramifications. Naturally, this is with a view to maintaining and enhancing the professional capabilities of its members so as to better equip them to fulfil the needs of the profession for the good of the public and the nation.

MEMBERSHIP

Membership is open to all who possess qualifications that are accredited by the Council for the Regulation of Engineering in Nigeria (COREN), under the provisions of Engineering Registration Decree (No. 55) of 1970 or such amendments thereof irrespective of race, tribe or religion. There are seven grades of membership - Fellow, Corporate, Associate, Graduate, Student, Corporate Firm and Honorary Fellow.

ORGANIZATION

The highest policy making body is the Council which comprises elected National Executive Members, Branch/Division Chairmen, Representatives of other Engineering Bodies/Institutions and some nominated Active Corporate Members. The President is the Head of Council. Overall coordination of the Society's activities is carried out from the Secretariat currently housed at the National Engineering Centre, Abuja. The Society also has a Liaison Office at the National Engineering Centre, Lagos. A full-time Executive Secretary heads the Secretariat.

DIVISIONS

As an umbrella organization, all the disciplines of the profession as currently practiced in the country are duly catered for. The various disciplines are organized as Divisions of the Society to enhance individual career development. Currently, the Society has twenty-five (25) professional Divisions.

BRANCHES

The Society is also organized into Branches based in various cities around the country to cater for the local activities of the members.

The following 93 Branches are in existence: Aba, Abak, Abakaliki, Abeokuta, Abuja, Ado-Ekiti, Aguata, Ajaokuta, Akure, Apapa, Asaba, Auch, Awka, Bauchi, Benin, Bida,



Birnin-Kebbi, Bonny, Bwari, Calabar, Calgary-Canada, Damaturu, Dutse, Egbin, Eket, Ekpoma, Eleme, Enugu, Epe, Glasgow, Giri, Gombe, Gusau, Houston, Ibadan, Ibeju-Lekki, Ikeja, Ikot Abasi, Ikot Ekpene, Ile-Ife, Ilesha, Ilorin, Ilaro, Jalingo, Jos, Kabuga, Kaduna, Kafanchan, Katsina, Kano, Lafia, Lagos, Lekki-Peninsular, Lokoja, London, Maiduguri, Maitama, Manchester, Makurdi, Minna, Mowe, New Bussa, Nnewi, Nsukka, Obajana, Offa, Ogbomoso, Omoku, Onitsha, Omu Aran, Oluyole, Orlu, Oron, Owerri, Osogbo, Ota, Okigwe, Oyo, Port Harcourt, Sapele, Saudi Arabia, Sokoto, Trans Amadi, Umuahia, Ughelli, Uyo, VI, Warri, Wudil, Yenagoa, Yerwa, Yola and Zaria.

SECRETARIAT

The Nigerian Society of Engineers Secretariat is headed by the Executive Secretary who runs a management structure of three Directorates, namely: Corporate Services Directorate (CSD), Membership Services Directorate (MSD) and Professional Development Directorate (PDD). The three Directorates have Departments, Units and Specialised Desks under them for effective delivery of routine services and execution of Council policies.

ACTIVITIES

PUBLICATIONS: The Society publishes a Quarterly magazine: "The Nigerian Engineer". Others include the Technical Transactions Journal, NSE Newsletter/e-Newsletter, Annual Conference and Seminar Proceedings, October Lecture Series, History of the NSE and some other ad hoc publications.

WORKSHOPS/CONFERENCES

These are organized nationwide and coordinated by the National Secretariat, and are geared towards professional improvement and continuing education amongst members. One of the special events is the biennial October Lecture normally delivered by a Past President of the society. The Society holds an annual Conference based on a chosen theme at a predetermined venue and date. This is also a forum for Engineers to exchange ideas and update their knowledge on contemporary issues and future developments in Engineering. The week long event is rounded off with the Annual General Meeting/AGM during which officers are elected.

ADVISORY SERVICES

NSE provides guidance to members on a wide range of matters relevant to their engineering practice. Government, Corporate Organizations and the general public may also seek advice of the Society on professional Engineering matters.

BENEVOLENT FUND

The Society maintains a benevolent fund to which individual members contribute. The fund is to help members and their families, who are in distress.



AWARDS AND PRIZES

Grants/Fellowship Awards and Prizes for papers, research and other contributions to the profession are awarded by the NSE from time to time, to those who distinguish themselves in the profession.

COMPETITIONS

The Society sponsors and encourages competitions at various educational levels – from Secondary Schools through Universities to professional institutions.

CODE OF ETHICS

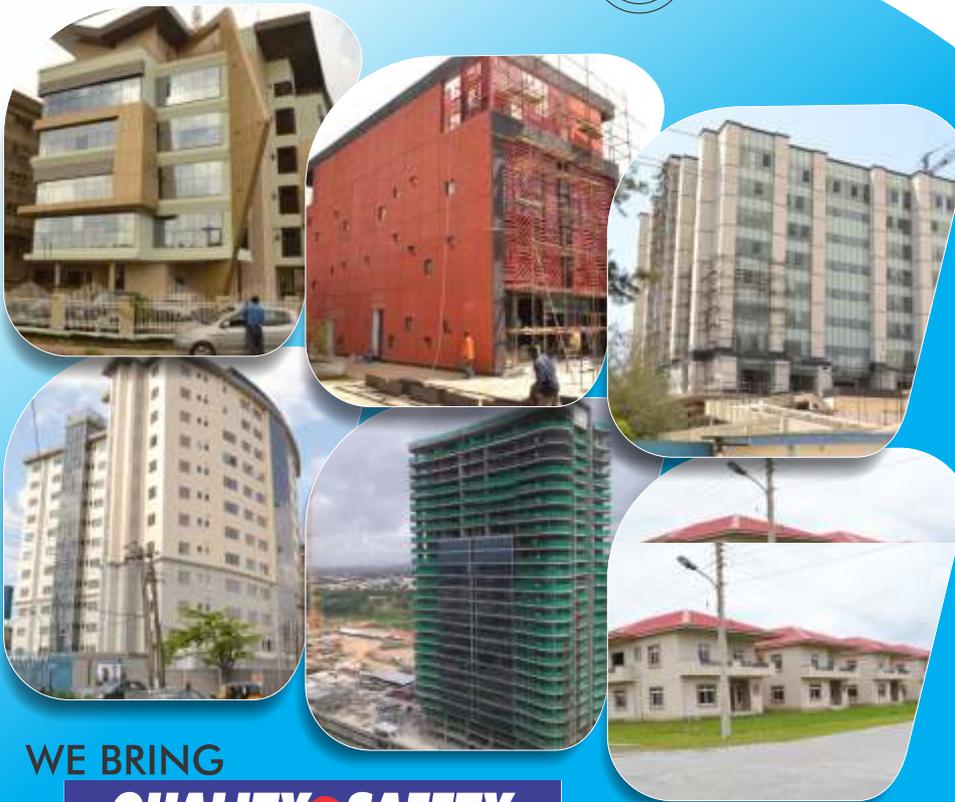
NSE has established a Code of Ethics to control the professional conduct of her members. Disciplinary actions are instituted under this code. The Society launched the "Campaign against Corruption in Engineering Projects (CACEP) in 1998, as part of its contribution in the fight against corruption which hinders rapid development of the country.

LIAISON WITH GOVERNMENT

The Society liaises with Government on matters affecting the Engineering profession and represents the profession on the boards of some government bodies/agencies. It maintains close relations with COREN in all issues relating to the profession. These include Engineering Regulation & Monitoring (ERM), Mandatory Continuing Professional Education (MCPE) and remuneration for Engineers.

INTERNATIONAL RELATIONS

The Society represents Nigeria through her membership of the Commonwealth Engineers Council (CEC) and the World Federation of Engineering Organizations (WFEO). NSE is also a member and houses the Secretariat of Federation of African Engineering Organizations (FAEO).



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PRESIDENT'S WELCOME ADDRESS



Distinguished Colleagues, Ladies and Gentlemen, It is with great delight that I welcome you to the 2025 International Engineering Conference and Exhibition, our premier event that brings together engineering professionals, business leaders, government officials and international participants under one roof. This annual gathering reflects our collective commitment to advancing the engineering profession and using our expertise to drive sustainable national development.

The 2025 edition, holding at the International Conference Centre, University of Ibadan, from 1st to 5th December, has the theme: “Engineering Innovation for a Sustainable Blue Economy”, which is both timely and strategic as it draws attention to the vast potential of the blue economy in fostering sustainable growth, creating employment and enhancing economic resilience through innovative engineering solutions.

This conference shall not be just another talking shop; it shall be a catalyst for action. We must identify concrete steps to accelerate efforts at attracting investment and generating revenue for our country through this important sector. The Nigerian Society of Engineers remains steadfast in its commitment to supporting initiatives that promote professional development, knowledge exchange and the application of engineering principles for the benefit of society.

Indeed, the role of Engineers in our society has never been more critical. We are expected to lead the way in finding practical and lasting solutions that address current economic and environmental challenges. In doing so, we have ensured over the years that our solutions are technically sound, economically viable and socially sustainable.

I warmly welcome you to the 2025 International Engineering Conference and Exhibition.

Engr. Margaret Aina Oguntala, FNSE
President/Chairman-in-Council



WELCOME ADDRESS BY THE CONFERENCE PLANNING COMMITTEE CHAIRMAN



It is an honour to welcome you to Ibadan, the city of brown roofs. I stand before you at this opening ceremony of this landmark event—the 2025 Nigerian Society of Engineers International Conference.

On behalf of the 2025 Conference Planning Committee, I extend the warmest embrace to each and every one of you who have journeyed from across Nigeria and from our international delegates, we say *Ẹ káàbò!* You are all most welcome.

This conference, themed “Engineering Innovation for a Sustainable Blue Economy in Nigeria,” marks a pivotal shift on our National focus. It is a clarion call. It is a strategic convergence of the finest minds in engineering, policy, and industry, summoned to chart a new course for our nation's prosperity. The Blue Economy represents a new frontier for national development, holding the keys to food security, job creation, renewable energy, and sustainable wealth. However, unlocking this potential is a task that cannot be left to chance. It demands deliberate effort and innovation. And most critically, it demands engineering. We have lined up a rich programme for the next few days.

Insightful Technical sessions by renowned experts. Dynamic Panel Discussions with leaders from the public and private sectors. An Innovation and Poster Exhibition showcasing groundbreaking ideas from our brightest minds. Specialised programmes for our Young Engineers, who are the future of our profession, *and for our Spouses, whose support is our backbone.*

As we proceed, I challenge every one of us to engage fully. Network, debate, question, and collaborate. Let us leave Ibadan not just with a communique, but with a concrete blueprint for action—a document that will guide our profession and our nation towards harnessing the immense opportunities of our blue resources, responsibly and sustainably.

My profound appreciation to our forward – thinking President, Engr. Margaret Aina Oguntala, FNSE for her unwavering support and leadership. We thank His Excellency, Engr. Seyi Makinde, FNSE. The Pace Setter Governor, for graciously accepting to be our Chief Host with uncommon hospitality.

My deepest gratitude to the 2025 Conference Planning Committee and co-opted members for the team work and brilliant ideas to bring this vision to life.

Ladies and gentlemen, the future is blue. – and engineers will build it.

Engr Mutiu O. Odesanya, FNSE

Chairman, Conference Planning Committee



OFFICIAL PREFACE OF THE CHAIRMAN OF THE TECHNICAL COMMITTEE FOR THE CONFERENCE ON ENGINEERING INNOVATION FOR A SUSTAINABLE BLUE ECONOMY IN NIGERIA



On behalf of the Technical Committee of the Nigerian Society of Engineers (NSE), I am delighted to welcome you to the 2025 National Engineering Conference holding at the University of Ibadan International Conference Centre, Ibadan, from 1–5 December 2025. The theme—Engineering Innovations for a Sustainable Blue Economy in Nigeria—speaks to a pivotal national priority: translating scientific insight and engineering ingenuity into solutions that unlock economic value from our oceans, coasts and inland waters while safeguarding ecosystems for future generations. Engineers have a singular responsibility—and opportunity—to shape this transition through resilient infrastructure, clean technologies, smart operations and inclusive, context-appropriate design.

In curating the technical content for this conference and the accompanying proceedings, the Committee sought contributions that bridge research and practice, and that foreground safety, sustainability, affordability and local content. While this volume cannot capture all the vibrancy of the sessions and discussions, its papers cover a wide spectrum of themes that are central to a sustainable blue economy in Nigeria. This subthemes include Sustainable Marine Infrastructure; Blue Economy Resources and Technologies; Innovation and Entrepreneurship in the Blue Economy; Policy and Governance for the Blue Economy; International Cooperation and Partnerships; Investment Opportunities and Funding Mechanisms; Intellectual Property and Innovation Ecosystems; Emerging Technologies Education and Skill Development for Sustainable Blue Economy.

The Committee applied technical standards to the review and selection process. We are grateful to the members of Technical Committee team for the review of the papers, several online meetings and commitment in getting all assignments done. We also thank panel session moderators, discussants and judges for the poster sessions for accepting the assignments and for shaping an engaging and educative experience.

Special thanks to our Chief Host, Engr Seyi Makinde, FNSE and the government of Oyo State for accepting to host and all the great support we have received. Our host, the University of Ibadan—Nigeria's premier university—offers an inspiring environment for multidisciplinary collaboration. We appreciate the hospitality and logistical support provided by the University, Engr Odesanya– led NSE Conference Planning Committee and the NSE, Local Organising Committee in ensuring that our technical sessions, exhibitions and networking opportunities are seamlessly delivered. This conference is also a platform for dialogue across the ecosystem—academia, industry, government agencies, professional bodies, financiers, and communities.

My sincere appreciation goes to the NSE leadership, Engr Margaret Oguntala, FNSE and her team for their vision and support; to our authors for sharing their work; to reviewers, mentors and student volunteers for their tireless service; and to partners and stakeholders whose collaboration sustains this community of practice. May the ideas, evidence and tools captured here help catalyse the next generation of engineering innovations for a sustainable blue economy in Nigeria.

Engr. Prof. Akindele Folarin Alonge, FNSE, FAEng, FNIAE

Chairman, Technical Committee
NSE 2025 National Engineering Conference
Ibadan, Nigeria
December 2025



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**ENGR. TAMUNOMININI
OLUFUNKE MAKINDE, FNSE**



**ENGR. DR. HABIBA DANJUMA
MOHAMMED, FNSE**



CITATION OF FELLOWSHIP CONFEREE



ENGR. TAMUNOMININI OLUFUNKE MAKINDE, FNSE

Tamunominini Olufunke Makinde was born to the family of Songo Batubo of Buguma in Asari Touri Local Government Area of Rivers State, Nigeria.

She is a graduate of Rivers State University of Science and Technology, where she obtained a Bachelor of Engineering in Chemical/Petrochemical Engineering.

She is an alumna of St. Thomas University in Houston, Texas, USA where she bagged a Bachelors of Business Administration (BBA) degree with double majors

(Finance and General Business). She also earned a Master in Business Administration (MBA) degree from the same institution in 2017.

She doubles as an Engineer and businesswoman who has contributed greatly to the success of Makon Group of Companies, owned by her husband, the Governor of Oyo State, His Excellency, Engr. Oluseyi Makinde, FNSE.

Tamunominini Makinde has shown tremendous commitment to the wellbeing of residents of Oyo State, having led several humanitarian initiatives in support of widows, girls, women and children. She has also hosted various welfare outreaches and empowerment programmes for under-privileged children, physically-challenged children, orphans and women in general.

During her tenure as the Chairperson of the Oyo State Agency for the Control of AIDS (OYSACA), she proved herself to be an advocate of people living with HIV/AIDS, by supporting them and hosting them in the State during the yearly World AIDS Day. She is also the Vice Chairperson of the Nigerian Governor's Spouses Forum through which the forum supports Nigerian children, youths and women.

Tamunominini is happily married to the current governor of Oyo State, His Excellency, Governor Oluseyi Makinde, also an Engineer. They are blessed with three children. She is a devoted wife and a nurturing mother who has continued to be a strong pillar of support to her husband.



CITATION OF FELLOWSHIP CONFEREE



ENGR. DR. HABIBA DANJUMA MOHAMMED, FNSE

In 2008, Engr. Dr. Habiba Danjuma Mohammed earned her Bachelor's Degree in Chemical Engineering (Second Class Upper Division) from the University of Maiduguri. This milestone marked the start of her illustrious career in engineering. Thereafter, she pursued a Master's Degree in Environmental Technology and Management at the Institute of Petroleum Studies, University of Port Harcourt, in 2012. This achievement birthed in her a thirst for further career and professional excellence, leading to her earning a Ph.D. in Chemical Engineering (Renewable

Energy) from the prestigious University of Maiduguri in 2023.

She is a recognized and registered member of the *Council for the Regulation of Engineering in Nigeria (COREN)*, the *Nigerian Society of Engineers (NSE)*, and the *National Registry of Environmental Practitioners (NREP-USA)*. In addition, she actively participates in professional conferences both locally and internationally, including the NSE Annual Conference, COREN Annual Conference, and the APWEN Annual International Conference.

The titles “researcher,” “lecturer,” “mentor,” and “leader” perfectly encapsulate the professional profile of Engr. Dr. Habiba Danjuma Mohammed. She has taught and mentored undergraduate and postgraduate students in Chemical Engineering. Some core courses she teaches include Chemical Engineering Materials, Transport Phenomena, Chemical Process Technology, and Sugar Technology. Her research niche lies in renewable energy, waste management, and environmental sustainability. Her leadership skills are evident in her various academic and administrative roles.

Her industrial experience began at Kaduna Refining and Petrochemical Company, where she served as a Trainee Laboratory Assistant, performing fuel and water analyses on routine samples. She later undertook a postgraduate internship at DEL Waste Management Company, FLT Onne Oil and Gas Free Zone, Rivers State, where she was involved in the analysis and recycling of drilling waste. Her strong passion for mentorship and dedication to her community motivated her to accept a Lecturer position at the University of Maiduguri in 2013.

Engr. Dr. Habiba Danjuma Mohammed is also a dedicated humanitarian, actively engaged in advocacy, social mobilization, and community development initiatives. Her initiatives include guidance and counselling programs, efforts to support out-of-school children, and advocacy for women and girls in STEM. She serves as an adviser and member of the FGGC Monguno Alumni Association and frequently speaks at professional platforms championing sustainability, leadership, and women's empowerment. Notably, she presented a paper titled “*The Role of Mentorship in Encouraging Girls to Pursue Engineering Careers in Nigeria*” at the inauguration of the 4th APWEN Chairperson, Maiduguri Chapter.

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HONORARY FELLOWSHIP CONFEREES



BELLO MUHAMMAD GORONYO Esq. (FNSE)



MRS OLUBUKOLA ADUBI, (FNSE)



ASIWAJU JOHN OLUMIDE OSUNSINA (FNSE)



MR. TAOFIK ADEGBITE (FNSE)



CITATION OF HONORARY FELLOWSHIP CONFEREE



Rt. Hon. (Barr.) Bello Muhammad Goronyo, (FNSE)
Dip. Law, LLB (Hons), BL, MSc MESM, MPhil LSS, PhD (in view)

Professional Summary

Born on January 1, 1966, in Sabon Garin Dole, Goronyo Local Government Area, Sokoto State, Rt. Hon. (Barr.) Bello Muhammad Goronyo is a distinguished Nigerian lawyer, legislator, and public servant, happily married with children. Currently serving as the Honourable Minister of State for Works (October 2024–present), he brings over two decades of leadership in law, governance, and infrastructure development.

Previously, he served as Minister of State for Water Resources and Sanitation (August 2023–October 2024) and held key roles in the Sokoto State House of Assembly, including Deputy Speaker, Deputy Major and Minority Leader. A dedicated advocate for youth mobilization, environmental sustainability, and rural development, Barr. Goronyo's academic excellence and public service drive transformative change in Nigeria's North West region and beyond.

Education

- PhD (in view), Leadership and Security Studies, Nigerian Defence Academy, Kaduna
- MPhil, Leadership and Security Studies (2020–2022), Nigerian Defence Academy, Kaduna
- Master Class Certificate in Business Management & Leadership London Graduate School, London, UK. (2019)
- MSc, Energy Security Management (2016–2018), Nigerian Defence Academy, Kaduna
- Barrister-at-Law (BL, 2001), Nigerian Law School, Bwari, Abuja
- LLB (Hons), Usmanu Danfodiyo University, Sokoto (1997)
- Diploma in Law, College of Arts and Science, Sokoto (1990)

Professional Experience

Honourable Minister of State, Federal Ministry of Works (October 2024–Present)

Advocates for infrastructure development and public-private partnerships to address Nigeria's road network challenges, aligning with the Renewed Hope Agenda. Supervises FERMA, ensuring effective coordination of road maintenance projects, stakeholder engagement, and accountability for contractors' performance

Honourable Minister of State, FMWR&S (August 2023–October 2024)

Led initiatives to enhance water access, sanitation, and hygiene, collaborating with private sector partners to advance national WASH goals.



CITATION OF HONORARY FELLOWSHIP CONFEREE



MRS OLUBUKOLA ADUBI, (FNSE)

Mrs. Olubukola Adubi began her career as a Pharmacist in the United Kingdom 25 years ago. Over the past two decades, she has gained experience across industries, including pharmaceuticals, consulting, hospitality, and manufacturing. She has established a reputation as a transformational leader who consistently delivers impact in complex and competitive environments.

She holds a Master's Degree in Pharmacy, a Master's in International Business Administration and is currently pursuing a Doctorate in Business Administration. She is a member of the Royal Pharmaceutical Society of Great Britain, the Pharmaceutical Society of Nigeria, and the Institute of Directors.

Mrs Adubi is currently the Chief Executive Officer of MicCom Cables & Wires Limited, one of Nigeria's leading cable manufacturers, where she oversees strategic growth, operational excellence, and industry innovation, ensuring full compliance with ISO 9001, ISO 14001, and ISO 45001 standards. This positions MicCom as a leader in quality, environmental, and occupational health standards. MicCom remains the only cable manufacturer in Nigeria with all three certifications.

She is currently leading the design, installation, and commissioning of MicCom's new, state-of-the-art Smart Cable Factory, which incorporates automation, IoT-based monitoring, and advanced testing infrastructure, making it one of the most technologically advanced cable plants in sub-Saharan Africa.

Under her leadership, MicCom has become a training ground for emerging Nigerian engineers, offering real-world industrial exposure and practical skill development, and has established a strategic partnership with Nigerian universities to strengthen the link between academia and industry, providing a valuable training environment for students and graduate engineers.

A committed advocate for Nigeria's industrial development, she serves as President of the Cable Manufacturers Association of Nigeria (CAMAN) – coincidentally the 2nd female to hold this position, the first being her late mother, Engr. Olufunke Ponnle, FNSE, where she leads efforts to strengthen industry standards, promote local capacity, and engage stakeholders on critical policy and infrastructure issues. She has been recognised for her values-driven leadership rooted in loyalty, integrity, and excellence. From guiding operational teams to influencing national manufacturing policies, she exemplifies a leadership style that is both people-focused and results-oriented.



CITATION OF HONORARY FELLOWSHIP CONFEREE



ASIWAJU JOHN OLUMIDE OSUNSINA, (FNSE)

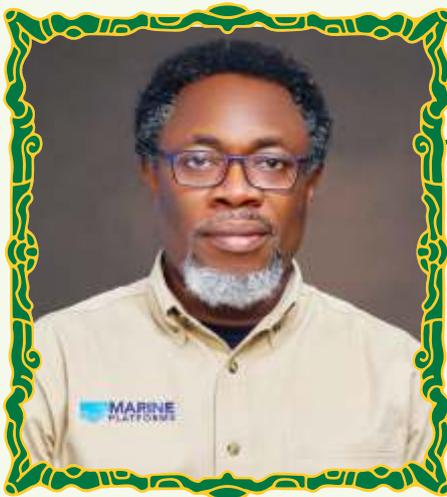
Asiwaju John Olumide Osunsina is a veteran real estate developer and corporate leader with over 30 years' experience in large-scale residential, commercial, and hospitality projects in Nigeria and the United Kingdom. As Managing Director/CEO of Megamound Investment Limited since 1994, he has led the development of landmark estates and complexes across Lagos, Ibadan, Abeokuta, and beyond, including Carlton Gate Estate, Lekky County Homes, Nicon Town, Kings Court Estate, Megamound

Place (Victoria Island), Heritage Courts, Funtai/Megamound Courts (Ikoyi), and Elegushi Royal Heritage Estate.

He has also delivered major public-private projects, such as 384 housing units in Surulere with LBIC, World Bank and AfDB-funded infrastructure initiatives, and commercial redevelopments like Omole Shopping Plaza. Internationally, he oversees property development and investments in the UK through Supreme Core Dev Co. Limited. He chairs several boards (including Foresight Microfinance Bank, Imperial Mortgage Homes and IPWA Plc), previously headed the Real Estate Sector of the Lagos Chamber of Commerce & Industry (LCCI), and holds degrees from the University of Bedfordshire (UK), University of Lagos, Abubakar Tafawa Balewa University, and Ahmadu Bello University. Widely honoured for his contributions to housing and urban development, he is also a prominent cultural leader bearing titles such as Asiwaju Bobagunwa of Egbaland, Otun'Ba Loro of Ajiranland, and Bobaselu of Itireland.



CITATION OF HONORARY FELLOWSHIP CONFEREE



MR. TAOFIK ADEGBITE, (FNSE)

Mr. Taofik Adegbite graduated with a degree in Computer Science from the University of Ibadan. He also holds a certificate in Strategy and Organization Management from the London School of Economics and completed the Owner/President Management Program (OPM 44) at the Harvard Business School, USA.

He began his career at the Agricultural Project Monitoring & Evaluation Unit, a World Bank project, and subsequently worked in the United Kingdom with the National Health Service (NHS) as a CISCO-certified IT Engineer. In 2001, he joined Marine Platforms Limited as Director of Strategy and Business Development, where he played a pivotal role in shaping the company's long-term vision and performance architecture. In 2002, he assumed the role of Chief Executive Officer (CEO).

A seasoned strategist, Mr. Adegbite has been instrumental in pioneering several initiatives that have enhanced local capacity in Nigeria's oil and gas industry. He led the acquisition and deployment of the African Vision, African Inspiration, and African Concept, all technologically advanced offshore support vessels that have contributed immensely to deepwater operations within Nigeria and across the African continent.

He has participated in several trainings in business, engineering, and local content development, both locally and internationally. He is deeply passionate about capacity development and has invested significantly in the training and mentorship of young engineers, equipping them with the skills and exposure required to excel in the industry.

In 2018, he was appointed the Honorary Consul General for the Kingdom of Norway to Nigeria. He is a member of the Commonwealth Enterprise and Investment Council and served as a member of the Nigerian Ship Registration Office Review Committee.

Mr. Adegbite continues to demonstrate strong commitment to innovation, enterprise development, capacity building, and ethical leadership, contributing significantly to national growth and sustainable engineering advancement.



PROGRAMME AT A GLANCE

MONDAY, 1ST DECEMBER, 2025

Time	Activity
8:00am - 6:00pm	Registration / Arrival
9:30am - 10:30am	Press Conference
12:00pm	Courtesy Visit to Host Governor
2:00pm - 5:00pm	Fellowship Conferment
6:00pm - 8:00pm	Presidential Cocktail Party

TUESDAY, 2ND DECEMBER, 2025

Time	Activity	Details
8:00am - 6:00pm	Registration	
10:00am - 12:30pm	Opening Ceremony	<i>Official opening with addresses from the NSE President, the Executive Governor of Oyo State, Keynote Address, Awards and Address by the President of the Federal Republic of Nigeria.</i>
12:30pm - 1:00pm	Lunch Break	
1:00pm - 5:00pm	Spouses Programme	See separate schedule.
1:00pm - 5:00pm	Young Engineers Programme	<i>See separate schedule.</i>
1:00pm - 2:10pm	Panel Discussion Session 1	Theme: Engineering the Future: Unleashing Nigerian Innovation and Entrepreneurship in the Blue Economy
2:10pm - 2:40pm	Poster Session 1	<i>Participants to visit the stands.</i>
2:20pm - 3:30pm	Panel Discussion Session 2	Theme: Smart Ports & Sustainable Shipping: Digital Technologies for Maritime Efficiency
3:00pm - 3:30pm	Poster Session 2	<i>Participants to visit the stands.</i>
3:30pm - 4:30pm	Technical Session 1	Theme: The Digital Shipyard: Pioneering Blue Economy Solutions Through Godot-Driven Engineering Simulations
5:00pm - 9:00pm	Election Manifesto	



WEDNESDAY, 3RD DECEMBER, 2025

Time	Activity	Details
9:00am - 6:00pm	Registration	
9:00am - 6:00pm	Spouses Programme	<i>See separate schedule.</i>
9:00am - 6:00pm	Young Engineers Programme	<i>See separate schedule.</i>
9:00am - 10:00am	Leadership and Energy Talks	<i>1. Leadership Training for Engineers: a key to sustainable practical development 2. Smart Grid and Blue Economy: Integration of renewable energy Sources and smart technologies in coastal regions</i>
10:00am - 11:00am	Technical Session 2	Theme: Investment in Marine Infrastructure, Policy and Governance, and Skill Development for Sustainable Blue Economy
11:00am - 12:15pm	Panel Discussion Session 3	Theme: Sustainable Aquaculture & Fisheries Tech: Engineering Food Security from the Ocean
12:15pm - 12:45pm	Lunch Break	
12:45pm - 2:00pm	Panel Discussion Session 4	Theme: Advancing the Frontier: Foundational Research and Development for a Sovereign Nigerian Blue Economy
2:00pm - 2:30pm	Poster Session 3	<i>Participants to visit the stands.</i>
2:30pm - 4:00pm	Panel Discussion Session 5	Theme: Governance and Capital: Policy Frameworks for Financing the Blue Economy
4:00pm - 6:00pm	Group Dynamics Competition (Branches and Divisions)	
6:00pm - 9:00pm	Welfare/Cultural Night	<i>See separate schedule.</i>



THURSDAY, 4TH DECEMBER, 2025

Time	Activity
9:00am - 10:00am	Presentation of Communique and Conference Closing ceremony
10:00am - 1:00pm	Annual General Meeting (AGM)
1:00pm - 2:00pm	Lunch Break
5:00pm - 9:00pm	Annual Dinner / Gala Night

FRIDAY, 5TH DECEMBER, 2025

Time	Activity
10:00am - 11:00am	Closing Press Conference
11:00am	Departure



SCHEDULE OF TECHNICAL SESSIONS

Tuesday, 2nd December, 2025

PANEL DISCUSSION SESSION 1

Detail	Information
Date & Time	Tuesday, 2nd December, 2025 1:00pm - 2:10pm
Venue	Main Hall, International Conference Centre, University of Ibadan
Theme Focus	Engineering the Future: Unleashing Nigerian Innovation and Entrepreneurship in the Blue Economy
Lead Speaker	Dr. Dayo Mobereola PhD Director General, NIMASA
Panelists	<ol style="list-style-type: none"> Rear Admiral Ibrahim E Shehu Admiral Superintendent, Navy Dockyard Ltd Engr. Salahuddeen M. Tahir FNSE Managing Director, NNPC Engineering and Technical Company Ltd (NETCO) Engr. ThankGod Egbe FNSE CEO Cyphercrescent/ Vice President Innovation Triple Helix Nigeria Iroghama Ogbeifun Managing Director/CEO Starz Investments Company Limited Engr. Alamu Abimbola FNSE Logistics Manager, Renaissance
Moderator	Engr. Yetunde Aladeitan, PhD FNSE Assoc. Prof., Dept. of Chemical Engineering, Director Energy Research Centre, University of Abuja
Rapporteurs	<ul style="list-style-type: none"> • Engr. Prof. Folarin Alonge, FNSE, FAEng • Engr. Prof. Gbenga Aribisala, FNSE, FAEng • Engr. Uchechi Edosomwan, FNSE • Engr. Prof. Kamilu F. K. Oyedeko, MNSE



SCHEDULE OF TECHNICAL SESSIONS

Tuesday, 2nd December, 2025

PANEL DISCUSSION SESSION 2

Detail	Information
Date & Time	Tuesday, 2nd December, 2025 2:20pm - 3:30pm
Venue	Main Hall, International Conference Centre, University of Ibadan
Theme Focus	Smart Ports & Sustainable Shipping: Digital Technologies for Maritime Efficiency
Lead Speakers	Dr. Abubakar Dantsoho Managing Director/CEO, Nigerian Ports Authority (NPA)
Panelists	<ol style="list-style-type: none">Vivian Chimezie Azubuiké Director General, Nigerian Chamber of ShippingKashifu Inuwa Abdullahi Director General, National Information Technology Development Agency (NITDA)Dr. Bayero Salih Farah Director General, Nigerian Institute of Transportation and Technology ZariaMr. Taofik Adegbite Managing Director/CEO, Marine Platforms LimitedDr. Sylva Afe Oshiokpekhai Managing Director, Global Link Ocean Streams LtdMr. George Onafowokan Managing Director, Coleman Wires and Cables
Moderator	Engr Eferibo Sylvanus PhD FNSE National Chairman, Nigerian Institution of Marine Engineers and Naval Architects
Rapporteurs	<ul style="list-style-type: none">• Engr. Prof. Fatai O. Anafi, FNSE• Engr. Prof. Joshua O. Olaoye, FNSE• Engr. Prof. Christy Ijagbemi, FNSE• Engr. K. A. Amusa, MNSE



SCHEDULE OF TECHNICAL SESSIONS

Tuesday, 2nd December, 2025

TECHNICAL SESSION 1

Detail Information

Date & Time Tuesday, 2nd December, 2025
3:30pm - 4:30pm

Venue Main Hall, International Conference Centre, University of Ibadan

Theme Focus **The Digital Shipyard: Pioneering Blue Economy Solutions Through Godot-Driven Engineering Simulations**

Presentations

1. **Lateef Kareem**
Manager, Computational Mathematics & Simulation, CypherCrescent Ltd Advancing the Blue Economy through Digital Simulation of Engineering Processes with the Godot Engine
2. The impact of Inland Waterway Jetties on Oil and Gas Operation in the Nigerian Niger Delta: A Sustainable Approach
Collions Asilonu,
Head, Civil & Structural Engineering, Renaissance
3. Asset Digitization - An Indispensable Requirement for Sustainable Asset Lifecycle Management
Jibrin Abubakar, Donatus Oduopara
4. Leveraging Emerging ICT for Smart Maritime Operations: A Framework for Process Optimization in the Blue Economy
Oloyede. A. A, Faruk N, Olawoyin L.A and Oloyede M .O
5. Emerging Technologies for business process optimization in the blue economy
Frank Imohiose
6. Coastal Sand Mining and Its Engineering Control Measures for Sustainable Blue Economy
Shehu S. A, Salawu A. A., Jethro M. A., Ayoola J. O and Ibrahim, O. M

Moderator **Engr. Prof (Mrs.) Christy Ijagbemi, FNSE**
Department of Mechanical Engineering
Federal University of Technology, Akure

Rapporteurs

- Engr. Joshua Aboyeji Adeoye, FNSE
- Engr. Dr. Joseph O. Kolawole, MNSE
- Engr. Dr. Cecilia Igbonakalum Okafor, MNSE
- Engr. Dr. Uche C. Ogbuefi, MNSE



SCHEDULE OF TECHNICAL SESSIONS

Date & Time: Tuesday, 2nd December, 2025 | 2:10pm - 2:40pm

Venue: Aganga Hall, International Conference Centre, University of Ibadan

POSTER SESSION 1

Poster Code	Poster Title & Author
NSEIB25 - 001	Title: Impact of Renewable Energy Powered Marine Vessels on the Enhancement of the Blue Economy Authors: Ebiarede, Perekebina; Osamor, Basil
NSEIB25 - 002	Title: Innovation and entrepreneurship in the blue economy Author: Seini Aboh Samuel and Timothy Oinu
NSEIB25 - 003	Title: Application of Fish and Shrimp Biomass Briquette as A Panacea for Renewable Energy Development Authors: Aliemeke B. N. G ., Ososomi A. S. and Imafidon, S.
NSEIB25 - 004	Title: Mitigating Climate Change Impacts on Rural Water Supply for Blue Economy and Food Security Author: Oluwadare Joshua Oyebode
NSEIB25 - 005	Title: Bridging the Skills Gap in West Africa's Artisanal Fisheries: A Blue Economy Perspective Author: Adebayo Stephen Adeniyi, Oju Olusegun Sunday and Adeyemo Moses Sunday
NSEIB25 - 006	Title: International Cooperation and Partnerships: A Case Study of Engineering Innovation for a Sustainable Blue Economy in Nigeria Author: Bakura Tijjani Jibrin
NSEIB25 - 007	Title: Towards harnessing the blue economy resources in Nigeria Author: O. Adeoti
NSEIB25 - 008	Title: Sustainable Carbon Capture and Utilization for Eco-Friendly Fish Feed Production in the Blue Economy Authors: Quadri Nasiru, Ayoola Olalusi and Caroline Ayo-Olalusi
NSEIB25 - 009	Title: Vibration Analysis and the Minimization of Structural Response with Application in Marine Offshore Platforms Author: Afolabi, Olusegun Adeleke
NSEIB25 - 0010	Title: Investigating IoT-Enabled Monitoring of Volatile Organic Compounds (VOCs) Emissions from the Nigerian Blue Economy: A Technological Leap Towards Sustainable Marine Environments Author: Omolola Olanrewaju
NSEIB25 - 0011	Title: Smart and Sustainable Marine Infrastructure: A Blueprint for Nigeria's Blue Economy Author: Igunbor Iyare Alexander
NSEIB25 - 0012	Title: Lake Chad Basin and Nigeria's Blue Economy: Synergies for Sustainable Development through Engineering Authors: A.B. Muhammad, B.M. Tela1, Mua'zu, I. M.B. Maina and M. Shuja



NSEIB25 - 0013	Title: Innovative Technologies for Advancing Nigeria's Blue Economy Author: Raphael Ezeoma
NSEIB25 - 0014	Title: Ocean Energy Potentials: Implications for Sustainable Development in the Blue Economy of Developing Nations. Authors: Edmund Okoroigwe, Chidiebele Uzoagba and Chinyere Okoroigwe
NSEIB25 - 0015	Title: Harnessing Wind Energy Potential with Efficient Monopile Foundation Design for Lagos Offshore Wind Turbines Authors: Udu Akpadaka and Dosumu Faith

Chief Judge: **Engr. Oluseun A Faluyi, FNSE**

Judges:
Engr. Prof. Folarin Alonge, FNSE, FAEng
Engr. Prof. Gbenga Aribisala, FNSE, FAEng
Engr. Dr. Cecilia Okafor, MNSE
Engr. Prof. Fatai Anafi, FNSE
Engr. Prof. Kamilu F. K. Oyedeko, MNSE



SCHEDULE OF TECHNICAL SESSIONS

Date & Time: Tuesday, 2nd December, 2025 | 3:00pm - 3:30pm

Venue: Main Hall, International Conference Centre, University of Ibadan

POSTER SESSION 2

Poster Code	Poster Title & Author
NSEIB25 - 0016	Title: Enhancing Renewable Energy Penetration Through Smart Grid-Integrated Micro-Hydropower Systems in Coastal Regions of Nigeria Author: D.K. Patrick
NSEIB25 - 0017	Title: Advancing Engineering Innovation and Technology for Sustainable Blue Economy Resource Utilization in Nigeria Author: Igunbor Iyare Alexander
NSEIB25 - 0018	Title: Technology as the driver for value and growth: Gas Plant Debottlenecking through Technology Deployment Author: Daniel Wya
NSEIB25 - 0019	Title: Industrial and Domestic Wastes as a Critical Challenge to Nigerias Blue Economy Authors: B.M. Tela, A.B. Muhammad, M.B. Maina, M. Shuwa and H., Musa
NSEIB25 - 0020	Title: Modelling of 250w Hybrid Solar and Wind Power Sources for Digital Cameras for Marine Growth Sustainability Authors: Uche C. Ogbuefi, Martins O. Agboeze, Chibuike P. Ohanu and Cajethan M. Nwosu
NSEIB25 - 0021	Title: An Iot-Based Embedded System for Real-Time Monitoring and Fault Detection in Transmission Power Lines Authors: Fasiku Ayodeji Ireland Omodelo Belessing Ayo
NSEIB25 - 0022	Title: Adapting Terrestrial Path Loss Models for Reliable Wireless Communication in Coastal and Maritime Environments Authors: Ayeni Samson Onimisi and Ayorinde O. Abigail
NSEIB25 - 0023	Title: Harnessing Offshore Flared Gas for Clean Power Using Free Piston Linear Expansion Technology: A Blue Economy Approach Authors: Wasiu B. Ayandotun, A. Rashid A. Aziz, and Mior A. M. Said
NSEIB25 - 0024	Title: Asphalt Recycling: Advancing Sustainable Technology and Economics in Nigeria Authors: Michael Esenwa and John Ebipuakebina Agori
NSEIB25 - 0025	Title: Sustainable Maritime Infrastructure and Embedded Systems: Emerging Challenges and Emerging Opportunities Authors: B. Mudasiru, O. C. Emem, M. E. Ani, A. Onduku, J. Pereowei, Allagoa and J. Nwadike
NSEIB25 - 0026	Title: Durability of Plastic Waste Concrete in Aggressive Marine Environments Authors: Abba Masud Alfanda and Wang Hao



NSEIB25 - 0027	Title: Modelling of Physical Configuration of Pits of Artisanal and Small scale marble Quarry in Oreke, Kwara State, Nigeria for Dewatering Design Authors: Olatunji K.J, Abdullahi F., Akanji R.O. and Okanlawon S.O.
NSEIB25 - 0028	Title: Advancing Engineering Project Delivery and Cumulative Handover Risk Mitigation through Digitalization Authors: Kingsley Chime and Oman Vitalis Onyia
NSEIB25 - 0029	Title: Strengthening Policy and Governance for a Sustainable Blue Economy in Nigeria: Challenges, Gaps, and Strategic Pathway Authors: Chukwuka E Asamaka
NSEIB25 - 0030	Title: A Review of Electrical Energy Management Techniques: Supply Side and Demand Side Management for a Sustainable Blue Economy Authors: U. O. Orji, and T. C. Madueme

Chief Judge: **Engr. Prof. Temitope E. Odetoye, FNSE**

Judges: Engr. Johua A. Aboyeji, FNSE
Engr. Dr. Kolawole Joseph, FNSE
Engr. Uchechi Edosomwan, FNSE
Engr. Prof. Joshua Olaoye, FNSE
Engr. Dr. Uche Ogbuefi, MNSE



SCHEDULE OF TECHNICAL SESSIONS

Wednesday, 3rd December, 2025

LEADERSHIP AND ENERGY TALKS

Detail Information

Date & Time Wednesday, 3rd December, 2025
9:00am - 10:00am

Venue Main Hall, International Conference Centre, University of Ibadan

Presentations

Paper 1: Leadership Training for Engineers: a key to sustainable practical development
Presenter: Prof. O. A. U Uche, FNSE
Affiliation: Registrar, COREN, Abuja

Paper 2: Smart Grid and Blue Economy: Integration of renewable energy Sources and smart technologies in coastal regions
Presenter: Engr Vincent Ozoude
Affiliation: Managing Director/CEO, Transafam Power Limited, Afam, Rivers State

Moderator **Engr. Prof Gbenga Aribisala, FNSE, FAEng**
Vice Chancellor, Federal University of Technology and Environmental Sciences, Iyin Ekiti

Rapporteurs

- Engr. Prof. Ya'u Shuaibu Haruna, FNSE
- Engr. Prof. Joshua O. Olaoye, FNSE
- Engr. Dr. Uche C. Ogbuefi, MNSE
- Engr. Uchechi Edosomwan, FNSE



SCHEDULE OF TECHNICAL SESSIONS

Wednesday, 3rd December, 2025

TECHNICAL SESSION 2

Detail Information

Date & Time Wednesday, 3rd December, 2025
10:00am - 11:00am

Venue Main Hall, International Conference Centre, University of Ibadan

Theme Focus Investment in Marine Infrastructure, Policy and Governance, and Skill Development for Sustainable Blue Economy

Presentations

Paper 1: Investment Opportunities and Funding Mechanisms for Blue Economy **Etuk, Akaninyene Udo MNSE; Harmony Nnenna Nwobodo – Nzaribe MNSE; Francis A. Okoye MNSE**

Paper 2: Technologies, Education and Skill Development for a Sustainable Blue Economy in Nigeria
Akaninyene Edet Ekong

Paper 3: Policy and Governance of the Blue Economy: A Case Study of Lagos State Job Creation and Environmental Management of Marine Life
Ogunbajo AbdulHakeem B. And Akanmu James O.

Paper 4: Application of Nanomaterials in the Remediation of Polluted Marine Oil Fields for Promoting Environmental Sustainability in Nigeria: An Overview **Horsfall, Boma**

Paper 5: Blue Economy Resources and Technologies
Ojo, Oyesola Akinloye M.Eng

Moderator **Engr Uchechi Edosomwan, FNSE**
Deputy General Manager/Head, Electronics Communication Department, Nigerian Airspace Management Agency, Lagos

Rapporteurs Engr. Prof. Folarin Alonge, FNSE, FAEng
Engr. Dr. Joseph Onah Ukpata, FNSE
Engr. Prof. Christy Ijagbemi, FNSE
Engr. K. A. Amusa, MNSE



SCHEDULE OF TECHNICAL SESSIONS

Wednesday, 3rd December, 2025

PANEL DISCUSSION SESSION 3

Detail Information

Date & Time Wednesday, 3rd December, 2025
11:00am - 12:15pm

Venue Main Hall, International Conference Centre, University of Ibadan

Theme Focus Sustainable Aquaculture & Fisheries Tech: Engineering Food Security from the Ocean

Lead Speaker **Prof. Abdullahi Mustapha**
Director General/CEO, National Biotechnology Development Agency (NABDA)

Panelists

1. **Dr. Ansa J. Ebinimi**
Director, African Regional Aquaculture Centre (ARAC), NIOMR;
former National President of Fisheries Society of Nigeria
2. **Engr. Doubara David Adou, FNSE, FNIAE, FNIMechE, MNIFEngM**
Bayelsa State Ministry of Agriculture and Natural Resources,
Head of Engineering Services.
3. **Prof B. O. Omitoyin**
Department of Aquaculture and Fisheries Management,
University of Ibadan.
4. **Engr Dr. O B. Oduntan, FNSE**
Expert in Fisheries Facility Design, Adjunct Lecturer Department of
Agricultural and Environmental Engineering, University of Ibadan.
5. **Engr Prof Akingbile Christopher, FNSE**
Federal university of Technology Akure FUTA

Moderator **Engr. Olusegun Olamoyegun, FNSE, FNIMechE**
Founder of Twinnovative & Adjunct Professor, Pennsylvania State University.

Rapporteurs Engr. Joshua Aboyeji Adeoye, FNSE
Engr. Prof. Ya'u Shuaibu Haruna, FNSE
Engr. Dr. Cecilia Igbonakalum Okafor, MNSE
Engr. Dr. Joseph O. Kolawole, MNSE



SCHEDULE OF TECHNICAL SESSIONS

Wednesday, 3rd December, 2025

PANEL DISCUSSION SESSION 4

Detail Information

Date & Time Wednesday, 3rd December, 2025
12:45pm - 2:00pm

Venue Main Hall, International Conference Centre, University of Ibadan

Theme Focus Advancing the Frontier: Foundational Research and Development for a Sovereign Nigerian Blue Economy

Lead Speaker **Prof Emmanuel Onwioduokit**
Dept of Economics, University of Uyo

- Panelists**
1. **Prof. Tinuade Jolaade Afolabi, MNSE, FNSChE**
Professor of Chemical Engineering, Ladoké Akintola University of Technology, Ogbomoso
 2. **Engr. Debo Fagbami, FNSE**
Chief Operating Officer, Xenergi Limited
 3. **Engr. Dr. Adeola Grace Olugbenga, MNSE, MNSChE**
Assoc. Professor University of Abuja
 4. **Prof Kelani Bello**
Professor of Petroleum Engineering University of Benin
 5. **Prof. Funmilola O. Agbebi**
Director, Center for Blue Economy and Innovation, Olusegun Agagu University of Science & Technology

Moderator **Engr Joseph Nwawkue FNSE**
Lead Partner, Zera Advisory and Consulting, Lagos

Rapporteurs Engr. Prof. Fatai O. Anafi, FNSE
Engr. Prof. Christy Ijagbemi, FNSE
Engr. Dr. Joseph Onah Ukpata, FNSE
Engr. Uchechi Edosomwan, FNSE



SCHEDULE OF TECHNICAL SESSIONS

Wednesday, 3rd December, 2025

PANEL DISCUSSION SESSION 5

Detail Information

Date & Time Wednesday, 3rd December, 2025
2:30pm - 4:00pm

Venue Main Hall, International Conference Centre, University of Ibadan

Theme Focus Governance and Capital: Policy Frameworks for Financing the Blue Economy

Lead Speakers

1. **Dr. Olasupo Olusi**
Managing Director/CEO, Bank of Industry
2. **Senator Wasiu Eshinlokun-Sanni**
Chairman, Senate Committee on Marine Transportation and Blue Economy

Panelists

1. **Professor Olayinka David-West**
Dean, Lagos Business School
2. **Engr. Dr. Janet Febisola Adeyemi, FNSE**
Founder/National President, Women in Mining Nigeria
3. **Prof. Adeola Adenikinju**
Professor of Economics, University of Ibadan; President, The Nigerian Economic Society
4. **Mr. Oloruntola Olufemi**
Permanent Secretary, Ministry of Marine and Blue Economy
5. **Mr. Hassan Lawal**
Head of the One Stop Investment Centre (OSIC), Nigerian Investment Promotion Commission
6. **Dadley D. Toe**
President, West Africa Federation of Engineering Organization (WAFEO)
7. **Eng. Asa Mwaipopo**
President, The Institution of Engineers Tanzania

Moderator **Engr. Prof. J. K. Odusote**
Director, Centre for Blue Economy, University of Ilorin

Rapporteurs

Engr. Prof. Gbenga Aribisala, FNSE, FAEng
Engr. Prof. Fatai O. Anafi, FNSE
Engr. Prof. Christy Ijagbemi, FNSE
Engr. Prof. Ya'u Shuaibu Haruna, FNSE



SCHEDULE OF TECHNICAL SESSIONS

Date & Time: Wednesday, 3rd December, 2025 · 2:00 PM - 2:30 PM

Venue: Main Hall, International Conference Centre, University of Ibadan

POSTER SESSION 3

Poster Code	Poster Title & Author
NSEIB25 - 0031	Title: The Role of Marine Infrastructure in Supporting Sustainable Blue Economy in Nigeria Author: Nnanguma, KA
NSEIB25 - 0032	Title: Engineering Safety Culture and Skills Requirements Assessment in Nigeria Author: Uzor Onyia, Chinenye C. Anyadike, and Nzoputa Blessed Madueme
NSEIB25 - 0033	Title: Fostering Blue Economy for Sustainable Development: The Role of Engineering Practitioners Author: Oluwadare Joshua Oyebode
NSEIB25 - 0034	Title: Policy and Governance for Blue Economy: A paradigm for economic diversity and business possibilities Author: Sefa Asortse and Fidelis Mne Chai
NSEIB25 - 0035	Title: Modeling, Equilibrium, and kinetics of Adsorptive Properties of Awka Clays on Congo Red (CR) Dyes Removal. Authors: Nonso C. Oguanobi, Patrick C. Nnaji, Okechukwu D. Onukwuli, Calistus N. Ude, Ephrem N. Anike, Everest U. Shedrack
NSEIB25 - 0036	Title: Structural Performance of Modified Warm Mix Asphalt Block Pavements Using the Highway Accelerated Loading Instrument Authors: Yusuf Babangida Attahiru, Azman Mohamed, Abubakar Ibrahim, and Bilya Sani
NSEIB25 - 0037	Title: Sustainable Marine Infrastructure (SMI): A Critical Component of Ocean Conservation. Author: Adesulu Morakinyo Moses
NSEIB25 - 0038	Title: The Effect of Water Hyacinth on Freshwater Resources and Impact on the Blue Economy in Nigeria: A Review Authors: Chukwuemeka Jude Ohagwu, Violet Amarachukwu Ohagwu, and Joel Nwakaire Nwakaire
NSEIB25 - 0039	Title: The Role of TVET and EdTech in Developing Skills for Blue Economy Jobs Authors: Hauwa T. Abdulkarim, Abdullahi M. Tyabo, Adamu. M. Orah, Umar Abdulkadir, and Liman Alfa
NSEIB25 - 0040	Title: Unlocking the Blue Economy Through Engineering Innovation: Design and Demonstration of Multi-Purpose Floating Platform (MFP) for Nigeria Coastal Regions Authors: Amos Olaleye, and Timileyin Akande



NSEIB25 - 0041	Title: The Blue Economy of the Future Author: Raphael Ezeoma
NSEIB25 - 0042	Title: The Crucial Role of Machine Manufacturing for a Sustainable Blue Economy. Authors: B. Mudasiru, O. C. Emem, M. E. Ani, A. Onduku, and J. Nwadike
NSEIB25 - 0043	Title: Building Innovation Ecosystems for the Blue Economy: The Importance of Intellectual Property Infrastructure Author: Chukwuka E Asamaka
NSEIB25 - 0044	Title: Mathematical Modeling of a Mixed-Mode Solar Kiln with Phase Change Material for Timber Seasoning Author: Okafor, E. W
NSEIB25 - 0045	Title: Leveraging Emerging Technologies to Enhance Business Processes in Blue Economy Sectors: A Case Study of Anambra State's Industrial Landscape Authors: Charles Onyeka Nwamekwe and Charles Chikwendu Okpala

Chief Judge: **Engr. Oluseun A Faluyi, FNSE**

Judges:
Engr. Prof. Folarin Alonge, FNSE, FAEng
Engr. Prof. Mrs. C. O. Ijagbemi, FNSE
Engr. Prof. Ya'u Shuaibu Haruna, FNSE
Engr. Johua A. Aboyeji, FNSE
Engr. K. A. Amusa, MNSE



2025 SPOUSES PROGRAMME OF EVENT

Theme: Engineering Innovation for a Sustainable Blue Economy in Nigeria

Venue: Omolayole Hall, International Conference Centre, UI

Date	Day	Time	Activity
Dec 1	Monday	8:00am - 6:00pm	Arrival & Registration
		5:00pm - 7:00pm	Presidential Cocktail at the International Conference Centre, UI
Dec 2	Tuesday	8:00am - 6:00pm	Arrival & Registration
		10:00am - 12:30pm	Opening Ceremony
		12:30pm - 1:00pm	Lunch
		1:00pm	Departure to reception venue
		1:30pm - 4:00pm	Visit to Her Excellency, Wife of the Executive Governor of Oyo State, Engr. Tamunominini Olufunke Makinde . Reception at Government House
Venue		Jogor Centre	
Dec 3	Wednesday	9:00am - 9:30am	Welcome Address by President of NSE Spouses' Forum, Engr. Theophilus Oguntala, FNSE
		9:30am - 11:30am	Presentations by Branches I
		11:30am - 12:00pm	Tea Break
		12:00pm - 1:00pm	Presentations by Branches II / Quiz Competitions
		1:00pm - 2:00pm	Lunch
		2:00pm - 4:00pm	Games / Dance / Presentation of awards
		6:00pm - 9:00pm	Welfare/Cultural Night at Conference Venue
Venue		ICC	



Dec 4	Thursday	7:30am - 9:00am	Aerobics/Sports
		10:00am - 10:30am	Talk I: The Engineer's Spouse by Prof. (Mrs). Ayotola Aremu
		10:30am - 10:50am	Q & A Session
		10:50am - 11:20am	Talk II: Family Health by Dr. Gbolahan Obajimi FWACS
		11:20am - 11:30am	Q & A Session
		11:30pm - 12:00pm	Lunch at the Conference Venue
		12:30pm - 4:00pm	Shopping
		5:00pm - 9:00pm	Dinner at the Conference Venue
Dec 5	Friday	DEPARTURE	



GROUP DYNAMICS PROGRAMME

Detail	Information
Date	Wednesday, 3rd December, 2025
Venue	Main Hall, International Conference Centre, UI, Ibadan
Time	4:00 pm - 6:00 pm
Divisions Group Dynamics	Chairman: Engr. Prof. M. Dabo Ibrahim, FNSE Awards: <ul style="list-style-type: none">• 1st Prize: Trophy, Plaque and Cash Prize• 2nd Prize: Plaque and Cash Prize• 3rd Prize: Plaque and Cash Prize
Branches Group Dynamics	Chairman: Engr. Olayinka Alli, FNSE Awards: <ul style="list-style-type: none">• 1st Prize: Trophy, Plaque and Cash Prize• 2nd Prize: Plaque and Cash Prize• 3rd Prize: Plaque and Cash Prize



WELFARE/CULTURAL NIGHT

Date: Wednesday, 3rd December, 2025

Venue: Main Hall, International Conference Centre, UI

Time	Activity
6:00pm - 6:03pm	National Anthem
6:03pm - 6:05pm	Opening Prayer
6:05pm - 6:15pm	Opening Remark by the President Engr. Margaret Oguntala, FNSE
6:15pm - 6:25pm	Presentation by Spouses
6:25pm - 6:50pm	2025 Branches Welfare Competition
6:50pm - 7:00pm	2025 Presidential Awards
7:00pm - 8:30pm	Cultural Night Activities
8:30pm - 8:35pm	Vote of Thanks/Closing Prayer



2025 YOUNG ENGINEERS CONFERENCE PROGRAMME

Venue: Ogunlana Hall, International Conference Centre, UI

Date	Time	Activity	
Monday, 1st December	9:00am - 5:00pm	REGISTRATION/Young Engineers and Future Leaders Competition/ Young Engineers Innovation Challenge (Graduate Members) Finals, Young Engineers Talent competition finals. Engr. Samuel Akpan Ukoyen. Engr. Dr. Meshack illeanwa FNSE Engr.Dr. Evukowhiroro Ojegba FNSE	
Tuesday, 2nd December	9:00am – 5:00pm	REGISTRATION	
	9:00am – 12:30pm	MAIN CONFERENCE OPENING CEREMONY	
		YOUNG ENGINEERS' OPENING/ORIENTATION PROGRAMME	
	12:30pm – 12:45pm	Opening/Welcome Remark	Engr. Adenike Sandra Ajayi, MNSE National Coordinator
	12:45pm – 1:15pm	Lecture: Digital Transformation for ocean-based industries	Prof. Abiodun Musa Aibinu Vice Chancellor, Summit University, Kwara State
	1:15pm – 2:15pm	LUNCH/Social Interaction/Networking	
	2:15 pm – 2:35pm	Lecture: Digital Skills for Engineers: Building Capacity for Innovation and Global Competitiveness	Engr. Dr. Bola Mudasiru, FNSE CEO/Principal Partner, Prolarank Nigeria Limited.
	2:35pm – 3:55pm	CEO Roundtable on Investment Opportunity and Funding Mechanism	Er. Dr. Seng Chuan Tan President, World Federation of Engineering Organisations Engr Ijeli Chris FNSE Engr. Eloho Innocent Amagada FNSE Engr. Ayobami Ogundeyin FNSE Engr. Oliver Uchechukwu Eze, FNSE Engr Olumayowa idown FNSE
	3:55pm – 4:05pm	Music Interlude/ Comedy	Young Engineer's got Talent finalist. Engr Musa Jidangbun
	4:05pm – 4:50pm	Innovation and Entrepreneurship: Creating Opportunities as a Young Engineer	Engr. Itabong Ikpe FNSE Engr. Tosin Ogunmola FNSE Engr. Hauwa Khaleel Inuwa FNSE Engr. Andrew Agbemhoghia Ayemhoba FNSE
	4:50pm – 5:10pm	Digital Currencies Education: How Young Engineers Can Prepare for a Web3 Economy	Engr. Oluwadara Samuel Oluwalana, MNSE National Chairman ICT Division Engr Damilola Dato-karim
5:10pm-5:15pm	Closing Prayer	3rd Stanza of the National Anthem	



Wednesday, 3rd December	9:00am – 5:00pm	REGISTRATION	
	9:30am – 9:45am	Opening Prayer	3rd Stanza of the National Anthem
	9:45am – 10:10am	Lecture: Emerging Technologies for Education and Skill Development Sustainable Blue Economy	Engr. Kunle Adebajo, FNSE Engr. Ikake Destiny
	10:10am – 10:35am	Time-out with the Elders	NSE President, Deputy President, VP's Membership Service Board, and Others on President entourage.
	10:35am – 11:00am	Competition Sponsors Remarks	Engr Olaolu Amos Ogunduyile, FNSE Vice President, Council for the Regulation of Engineering in Nigeria (COREN)
	11:00am – 12:00pm	Breaking the Jinx of Uncertainty and Change Through Self-Leadership	Engr. Sunday Egbiki, Ph.D.FNSE Engr. Cyrillic chibuzo okeh.
	12:00pm – 12:30pm	LUNCH/Social Interaction/Networking	Engr. Yusuf Abdulrasak, MNSE, PMP
	12:30pm – 1:15pm	Engineering for Impact: Balancing Social Responsibility and Professional Development	Engr. Osaze Omorogbe, FNSE Engr. Abdulateef Edicha.
	1:15pm – 2:15pm	Music Interlude/Comedy/Playlet	Akwaowo Mbo, GMNSE
	2:15pm – 2:35pm	Roadmap to being an Engineer: Registration Process	Engr. Babatunde Odulami, FNSE, Director of Membership.
	2:35pm – 5:00pm	Creativity Challenge/Presentation Final	Engr. Meshach Ileanwa Alfa Ph.D. Engr. Samuel Akpan Ukoyen
	5:00pm – 5:10pm	Closing Prayer	3rd Stanza of the National Anthem
	6:00pm	Welfare & Cultural Night (Enter with your Registration Tag)	
Thursday, 4th December	11:00am – 3:00pm	Technical Visit	Branch coordinators.
	6:00pm – 8:00pm	Get Together	
Friday, 5th December	6:00am – 12:00pm	Departure	



2025 CONFERENCE PLANNING COMMITTEE

1.	Engr. Mutiu Odesanya, FNSE	-	Chairman
2.	Engr. Yetunde Holloway, FNSE	-	Vice Chairman
3.	Engr. Wale Lagunju, FNSE, mni	-	Member/LOC Chairman
4.	Engr. Agboola David Omoregie, FNSE	-	Member
5.	Engr. Mohammed Umaru Watsada, FNSE	-	Member
6.	Engr. Christy Abraham, FNSE	-	Member
7.	Engr. Hauwa Khaleel, FNSE	-	Member
8.	Engr. Dr. Evukowhiroro Ojegba, FNSE	-	Member
9.	Engr. Andrew Ayemhoba, FNSE	-	Member
10.	Engr. Chidozie Okereke, FNSE	-	Member
11.	Engr. Adeolu Taiwo, FNSE	-	Member
12.	Engr. Dr. Yetunde Aladeitan, FNSE	-	Member
13.	Engr. Kazeem Abiodun Oke, FNSE	-	Member
14.	Engr. Babatunde Saliu, FNSE	-	Member
15.	Engr. Olumayowa Idowu, FNSE	-	Co-opted Member
16.	Engr. Ademola Adeniran, MNSE	-	Co-opted Member
17.	Engr. J. Ekpo, MNSE	-	Co-opted Member
18.	Engr. Oyetade Joyce, MNSE	-	Co-opted Member
19.	Engr. Musa Ibrahim Musa, MNSE, fdc	-	Secretary

2025 TECHNICAL COMMITTEE

1.	Engr. Prof. Folarin Alonge, FNSE, FAEng	-	Chairman
2.	Engr. Prof. Gbenga Aribisala, FNSE, FAEng	-	Member
3.	Engr. Dr. Joseph Ukpata, FNSE	-	Member
4.	Engr. Dr. Kamoli Akinwale Amusa, FNSE	-	Member
5.	Engr. Uchechi I. Edosomwan, FNSE	-	Member
6.	Engr. Joshua Aboyeji Adeoye, FNSE	-	Member
7.	Engr. Prof. Fatai O. Anafi, FNSE	-	Member
8.	Engr. Dr. Joseph O. Kolawole, MNSE	-	Member
9.	Engr. Prof. Ya'u Shuaibu Haruna, FNSE	-	Member
10.	Engr. Dr. Uche C. Ogbuefi, MNSE	-	Member
11.	Engr. Prof. Christy Ijagbemi, FNSE	-	Member
12.	Engr. Prof. Kamilu F. K. Oyedeko, MNSE	-	Member
13.	Engr. Dr. Cecilia Okafor, FNSE	-	Member
14.	Engr. Prof. Joshua O. Olaoye, FNSE	-	Member
15.	Olubunmi Ajayi	-	Secretary



LOCAL ORGANISING COMMITTEE

- | | | | |
|-----|--|---|-----------|
| 1. | Engr. Wale Lagunju, FNSE, mni | - | Chairman |
| 2. | Engr. Dr. Ikotun Adewale Bashiru, FNSE | - | Member |
| 3. | Engr. Yomi Oyerinde, MNSE | - | Member |
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| 7. | Engr. Prof. Samson Ojoawo, FNSE | - | Member |
| 8. | Engr. Ayokunnu Olukunmi Ojedele, MNSE | - | Member |
| 9. | Engr. Prof. W. O. Ajagbe, MNSE | - | Member |
| 10. | Engr. Prof. A. O. Oke, MNSE | - | Member |
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| 13. | Engr. Ade Ayileka FNSE | - | Member |
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The Nigerian Society of Engineers

Announces its

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Maiduguri 2026



Theme:

**ENGINEERING SOLUTIONS FOR SECURITY, ENERGY
ACCESS AND SUSTAINABLE DEVELOPMENT**

DATE: MONDAY, 30TH NOV. – 4TH DEC. 2026

Mark Your Calendar