



**Nigerian Institution of Facilities Engineering
& Management (NIFEngM)**
A Division of Nigerian Society of Engineers



1st *International Facilities Engineering & Management
Conference, Exhibition & AGM of Engineers*

&

2nd *Fellowship Conferment Ceremony*

THEME

**The Place of Sustainable Facilities
Engineering in National
Economic Development**

COMMUNIQUE

Held at Gallery, National Engineering Centre (Off National Mosque - Labour
House Road) Central Business District, Abuja

On Monday 27th November, 2023

Preamble

The Nigerian Institution of Facilities Engineering and Management held its first International Facilities Engineering and Management Conference, Exhibition, and Annual general meeting with the theme “*The Place of Sustainable Facilities Engineering in National Economic Development*” on the 27th day of November 2023 at the Gallery of the National Engineering centre in Abuja. This event also doubled as the 2nd Nigerian Institution of Facilities Engineering and Management (NIFEngM) Fellowship conferment ceremony in honour of members and other engineering professionals. A total of 20 outstanding inductees took the oath before hosts and dignitaries as they were inaugurated as fellows of the institution.

The event was designed to be a one-day hybrid event comprising of both physical attendees and online attendees. Position papers were delivered by Engineering sector professionals, tailored to the theme of the conference.

Proceedings:

The event was officially opened with the singing of the national anthem as the Master Comperer welcomed invited guests to the auspicious event.

Deliberations at the event demonstrated a general consensus that the field of facility management is broad, highly esteemed and of critical national importance especially in the context of Nigeria’s infrastructural development. Guest opined that infrastructural development in Nigeria is at a nascent stage and the potentials are positive. However, the attitude of Nigerians to the management of critical national infrastructure is underwhelming and requires a renewal. The event was timely as it set the tone for deliberation on the state of facility management in the country and guided discourse towards advocacy for better management of infrastructure across the country. Delegates present engaged the discussions representatives of wider groups and larger interests in the engineering sector.

The welcome address was delivered by the Host and National Chairman of the Nigerian Institution of Facilities Engineering and Management, Engr. Oladipupo Isiaka Mobogaje, FNSE, MNIFEngM who welcomed guests and charged them to engage the issues constructively, share experiences and explore innovative approaches to address the challenges and opportunities in facilities engineering and management. He further charged attendees to allow the event be a catalyst for transformative ideas that will elevate the standards of facilities engineering and management not only in Nigeria but on the international stage.

The keynote speech was delivered by Engr. Prof. Sadiq Zubair Abubakar, FNSE, FAEng, President, Council for the regulation of Engineering in Nigeria as ably represented by Engr. Igba Peter Awunde.

Other distinguished invited guests and dignitaries included:

- HR Engr. Otis Oliver Anyaeji, FNSE, FAEng, ktSGG

- Engr. Dr. Moijirade M. Oloruntoba, FNSE
- Engr. Denis Dania, FNSE, FNIFEngM
- Engr. Dr. Abubakar Jumare, FNSE
- Engr. Musa Haruna, FNIFEngM
- Engr. Tosin Ogunmola, FNSE
- Dr. Ikechukwu Okafor
- Engr. Mrs. N.S.E. Eziokwu
- Engr. Ogochukwu Okeke, MNSE
- Engr. Okedare Joshua, MNSE
- Engr. Oladipo Akande, MNSE
- Engr. Mimi A Torhee, MNSE

Technical Session:

The First Lead paper was presented by Engr. Shehu Hadi Ahmad, FNSE, FNIOB, Executive Secretary, Federal Capital Development Authority as represented astutely by Engr Oluwadamisi Emmanuel. Other Lead paper presenters included Engr. Emmanuel Okudor, FPTI, FNISafetyE, MD/CEO DM Sheffield Engineering Limited (2nd Lead Paper Presenter), Omachi Jonah, FIGFM, President, Institute of Global Facilities Management (3rd Lead Paper Presenter).

The Lead Papers were:

1. “The Place of Sustainable Facilities Engineering in National Economic Development” by Engr. Shehu Hadi Ahmad, FNSE, FNIOB, Executive Secretary, Federal Capital Development Authority.
2. “Effective National Maintenance Policy: A tool for National Infrastructure Development” by Mr. Omachi Jonah, FIGFM, President, Institute of Global Facilities Management.

Other technical papers were presented by Engineers across other disciplines and were titled as follows:

- Impact of Facilities Engineers on Building and Sustaining Effective Maintenance Culture in Nigeria by Najeem O, Adalaku, Garba I. Abdulhamid & Olufemi F. Ayanlowo
- Smart Technology Integration in Facility Management: A Tool for Efficiency and Sustainability by Moijirade M. Oloruntoba
- Transforming Facility Engineering Practices in Nigeria: Insights from Abuja Metropolis by Olufemi F. Ayanlowo & Najeem O. Adalaku
- X-raying Theory of Constraint and its impacts on Oil & Gas Construction Projects in Nigeria by Abiodun M. Kolade
- Modification of Zeolite-Y Catalyst by Addition of Transition Metal Ions for Cellulose Conversion to Fuel by Patrick O. Nwosibe, Okwara A. Uche & Umeh C. Sunday
- Facilities Engineering and Management: A Strategic Instrument for National Development by Godswill C. Emelogu & Najeem O. Adalaku

- Application of Smart Technologies for Improvements in Facilities Management by Samuel M. Solanke, Henry S. Okeke & Joel Ogunyemi
- Phytoremediation of Polluted Agricultural Soils Using Typha Latifolia by Obiajulu. E. Ebekue & Abubakar S. Mohammed
- Analytical Comparison of Square Circle Packing and Triangular Circle Packing Based Algorithms for Maximum Coverage Area Density of Multiple Deployed UAV-ABS by Suraju A. Fadare, Nathaniel Salawu & Henry Ohize

Panel Discussions

The technical paper sessions were immediately followed by panel discussions geared towards topical issues in Facilities Engineering and Management. Deliberations centered around several subthemes including: Effective National Maintenance Policy: A tool for National Infrastructure development, improving performance and sustainability of Energy and Power Assets in Nigeria, A need for Facilities Engineering and Management standard, Sustainable Facilities Engineering in Building and Infrastructural Maintenance, and Smart Technologies and IOT in Facilities Engineering amongst others. 17 questions were aptly coined to stimulate discourse and elicit responses from panelists regarding salient issues in the state of the profession and the prospects for advancement and sustainability in the future. These questions included:

1. Poor maintenance and management of public facilities in Nigeria is a well-known issue. Where do we place the blame and what are the practical remedies?
2. Smart technologies have the potential to enhance efficiency of operations and to increase production. What is NIFEngM doing to build capacity to appropriately deploy the technologies that ensure sustainability and to derive the benefits of the technologies?
3. Transformation of maintenance departments by the government to the general services departments tend to portray the department as a non-professional department but an all-comers department and this explains why most of their Directors are admin/human resource staff. What can NIFEngM do to reverse the trend and change the name to reflect a professional department?
4. In government services, many engineers prefer to work as procurement officers. What can NIFEngM do to ensure procurement practice does not adversely affect engineering profession in the public sector?
5. What can NIFEngM do to ensure that facilities engineering and management cadre is properly established and recognized by the government at all levels as an engineering function majorly?
6. To what extent does pre-procurement standard compliance inspection affect the success of facilities management in a manufacturing industry?
7. Obviously, the people do not really see themselves as being in the position to play a part in the protection/maintenance of public infrastructure put in place by the government.

8. What is the reason for this disconnect in stakeholdership?
9. To what extent do you think that environmental factors impact the sustainability of efficient facilities management in Nigeria?
10. How can Sustainable Facilities Engineering contribute to the overall resilience and efficiency of national infrastructure for economic development?
11. In what ways does the integration of sustainable practices in facilities engineering impact long-term cost savings and economic sustainability at a national level?
12. Can you elaborate on specific case studies where Sustainable Facilities Engineering initiatives have directly influenced positive economic outcomes for a country?
13. What role does government policy play in promoting and incentivizing the adoption of sustainable practices in facilities engineering for national economic development?
14. How can the private sector collaborate with governmental bodies to advance sustainable facilities engineering initiatives that contribute to economic growth?
15. Are there notable challenges or barriers hindering the widespread adoption of Sustainable Facilities Engineering, and how can these be overcome on a national scale?
16. Considering the global shift towards green technologies, how can a nation strategically position itself through Sustainable Facilities Engineering to attract international investments and partnerships?
17. In what ways does Sustainable Facilities Engineering align with and support broader sustainable development goals, and how can these synergies be maximized for national economic benefit?
18. What role do educational institutions and research centers play in developing the necessary skills and knowledge for professionals engaged in Sustainable Facilities Engineering, contributing to national economic development?
19. How can the public be actively engaged and educated about the importance of Sustainable Facilities Engineering, fostering a culture of sustainability that aligns with national economic goals?

Panelists were chosen across disciplines, areas of specialization and cognate experiences and they included:

1. Engr Shehu Hadi Ahmad, FNSE, FNIIOB. Executive Secretary, Federal Capital Development Authority
2. Engr Emmanuel Okudor, FNISafetyE, FPTI. Managing Director, DM Sheffield Engineering Ltd
3. Mr Omachi Jonah, FIGFM. President, Institute of Global Facilities Management
4. Engr. Dr Samsom Dada Opulawah, FNSE, FNIFEngM, FNIIOB, FNIM, QAA. First National Chairman, NIFEngM & President, Council of Registered Builders of Nigeria
5. Engr. M.K.O Balogun, FNSE, FNIFEngM, MIOB, EDGE Expert. 3rd National Chairman, NIFEngM

6. Engr. Dr. Ahmed Mustapha, FNSE, FNIFEngM, Former Chairman, NSE Ilorin Branch
7. Mrs Nwando S. Chukwurah, FIoD, MRICS, CIWFM. MD, Total Facilities Management Limited
8. Engr. Hajia Fatima Ahmed Tukur, MNSE, FNIFEngM, APWEN. Chapter Chairman, NIFEngM, North Central Region
9. Mr. Paul Erubami, CFM, SFP, FMP, MRICS, MIOD. President, Association of Facilities Management Practitioners, Nigeria
10. Mr Joe Aniku Michael Ohiani, DG/CEO, Infrastructure Concession and Regulatory Commission
11. Engr. Salimon Kabiru Olalekan, MNSE, FNIFEngM. CEO/Managing Partner, K.S. Trust and Associates Ltd
12. Engr. Amina Danmadami, Vice Chairman, SPE Nigeria Council, Nigeria Midstream and Downstream Petroleum Regulatory Authority
13. Engr. Ayandare Olusesan Alade, MNSE, FNIFEngM. CEO/Managing Partner, Semag Multi-Services Nig Ltd
14. The session was moderated by Engr. Mrs. Doris Odo, MNSE, MNSChE and Mr Stephen C. Ozor

The proceedings, speeches, addresses, lead papers, technical papers, and panel discussions contributed to robust engagements on multi-sectoral issues in Facilities Engineering and Management leading to various Observations, Findings, and Recommendations.

Observations/Findings:

At the 1st International Facilities Engineering and Management Conference, Exhibition, AGM (IFEMCE 2023) & 2nd NIFEngM Fellowship Conferment Ceremony, the following were highlighted:

- There is a need to acknowledge the significant progress that the field of Facilities Engineering and Management has achieved as part of the process of understanding how to deepen the field and push for further progress.
- Sustainability is key for progress thus stakeholders must begin to work out strategies for mainstreaming sustainable practices into facilities Engineering and Management at all levels. An Engineer must first maintain to sustain.
- The law and attendant legislation must make the sustainability agenda compulsory. The law must mandate that maintenance and sustainability plans of new infrastructure are available and adhered to strictly. New infrastructure must have plans for continuous maintenance and sustainability.
- The crux of Facility Management is about continuous functionality and sustainability of investment. Infrastructural development cannot be achieved if Facility Management is not prioritized and funded.

- Facility Management involves a broad spectrum of professionals and a fusion of competencies across disciplines including engineers, architects, management professionals, builders, and others.
- The bill for the establishment of the Institute of Global Facilities Management has suffered several setbacks in the senate and house of representatives. This represents the challenges of the attempts to formalize and standardize membership and practices in the profession especially in the context of guiding laws and codes of practice.
- The Nigerian law-making process in Nigeria is cumbersome, frustrating, and expensive. To move bills that protect the profession, Practitioners have been encouraged to claim ownership of the process, stakeholders are being carried along and policy makers and government officials are being engaged in the process,
- As the bill awaits second reading, practitioners are encouraged make inputs and speak from all corners as a sign of support for the cause.
- The Nature of Politics in the country presents an impediment for the progress of the profession and the lofty goals of National Infrastructural development.
- The task of regulating Facility Management does not fall on the Council for the Registration of Engineering in Nigeria (COREN) because Facility Management is an all-comers profession, however, COREN regulates Engineers within the profession. Their task of ensuring the entry of only properly trained practitioners fall on the various regulatory bodies across all disciplines within Facility Management. All bodies in Facility Management should devise disciplinary means, streamline quality, and mainstream strict assessment. Facility Management cannot be a sole responsibility of engineers.
- In the bureaucracy of the Nigerian civil service, Engineers are fast becoming endangered species as administrators are encroaching into the mandates of Engineers especially Facilities Engineering and Management. Therefore, heads of MDAs who are Engineers must take up the responsibility to protect the interests and job security of Engineers.
- It is important to understand the Facility Engineering and Facility Management are distinct fields but are yet closely related. While Engineers are the sole authority in Facility Engineering while Facility Management centers around management.
- It is important to note that the administrative and Engineering aspects of Facility management often overlap thus, Engineers must devise means to share these overlapping spaces and build synergy with Admin managers for goals to be achieved. Facility Engineers are part of the component team for the delivery of Facility management. These are global standards and Nigeria does not operate in isolation.
- The Poor maintenance of public infrastructure was a direct result of the absence of experts in maintenance. This was the rationale for the creation of General Services in MDAs. Therefore, only professionals should head general services whether they are Engineers or not. This informs the need for Engineers to be flexible and acquire varying competencies so that can operate everywhere opportunities are present.

- Facility Vandalism especially as regards the vandalism of public infrastructure is due to the absence of a sense of Patriotism and Stakeholdership among the public. If we sensitize the public, they become aware that they are owners and stakeholders in public infrastructure. This will reduce the trend of vandalism.
- Facility Engineering and management uphold the importance of standard enforcement and punishment for unethical behaviour.
- Corrupt practices must also be transferred to the judiciary for diligent prosecution. Engineers must uphold and fulfill their contracts as bound by law.

Recommendations:

- To improve the field, we must first go back to the production room – the universities and colleges. At that level, we must teach the next generation the cross-cutting relationships between all the disciplines within Facilities Management and train them to be sensitive to them.
- Public awareness must be deployed to bridge the information gaps and bring practitioners up to speed.
- There is a need for public maintenance policy that seeks to regulate the use and operation of public infrastructure and utilities to ensure proper maintenance and sustainability practices are respected.
- Engineers going into Facilities Management can develop themselves in that area and become prominent in that sector. But to act to limit the practice to only engineers is an unwelcome development.
- Professionals like Architects, Surveyors, builders and Engineers operating in the space must work together for greater synergy towards progress.
- Engineers must begin to understand the importance of politics in the advancement of their collective goals. Facility Engineers must begin to engage with political authority in more constructive ways.
- The council for the regulation of Engineering in Nigeria (COREN) should ensure Facility Engineering is accommodated in the curriculum of Universities and Polytechnics due to the centrality of the field and its importance for the realization of our national goals of infrastructural development.
- Sustainability designs of public infrastructure must take into account environmental and climatic contexts including proper waste management, active reduction of carbon emissions, drainage/flooding challenges.
- Posterity must continue to guide our thinking. We must be conscious of the next generation of Engineers. We must understand that we are here due to the tutelage of dedicated academics and thus, we must guide the next generation towards continuous learning, research and innovation. We must train students and young professionals to be mindful of their ownership of the profession. If we do not have students who understand that they are

stakeholders in the profession then they would have no sense of duty to its advancement and sustainability.

- Facility Engineering and management must begin to entrench a system that has zero tolerance for mediocrity, uphold strict standards and provides certification to distinguish quacks from seasoned professionals.
- The Legal system must undergo reforms that ensures that it will improve its ability to hold people to account. Reorientation, reward systems and penal code must work together. As we Sensitize people to do the right thing, we must also Incentivize good behavior.

Fellowship Conferment:

At the Second Fellowship Conferment Ceremony, the following Inductees were decorated as fellows of the Nigerian Institution of Facilities Engineering and Management:

S/No	Full Name	NIFEngM No
1.	Engr. Felix Tarvihi Atume, FNIEngM	F0022
2.	Engr. Ali Alimasuya Rabi, FNIEngM	F0023
3.	Engr. Prof. Sadiq Zubair Abubakar, FNIEngM	F0024
4.	Engr. Mrs. Fatima Ahmed Mohammed Tukur, FNIEngM	F0025
5.	Engr. Olufemi Festus Ayanlowo, FNIEngM	F0026
6.	Engr. Godswill Chikezie Emelogu, FNIEngM	F0027
7.	Engr. Najeem Olawale Adelakun, FNIEngM	F0028
8.	Engr. Sunday Iwalewa Dairo, FNIEngM	F0029
9.	Engr. Obinna Chidiebere Madumere, FNIEngM	F0030
10	Engr. Dr. Ezekiel Nnamere Aneke, FNIEngM	F0031
11	Engr. Prof. Abubakar Ismail, FNIEngM	F0032
12	Engr. Muritala Busari, FNIEngM	F0033
13	Engr. Olusegun Dada Aiyedun, FNIEngM	F0034
14	Engr. Adeoye Idowu Ajayi, FNIEngM	F0035
15	Engr. Moshood Adeyinka Oyebode, FNIEngM	F0036
16	Engr. Dr. Ahmed Oyedokun Oyefolahan, FNIEngM	F0037
17	Air Commodore Sunday Solomon Lazarus, FNIEngM	F0038
18	Engr. Dr. Samuel Olugbenga Oloruntoba Olusunle, FNIEngM	F0039
19	Engr. Olukayode Emmanuel Ajayi, FNIEngM	F0040
20	Engr. Khadija Kuburat Ibrahim, FNIEngM	F0041

IFEMCE 2023 RAPPORTEURS:

Engr. Godswill Chikezie Emelogu, MNSE, MNIFEngM, MNIEEE

Chairman

Engr. Ibraheem Ajao Olalekan, MNSE, MNIFEngM, MNIMechE

Member

Engr. Al Ameen Ahmadu, MNSE, MNIFEngM, MNIMechE

Member

Engr. Emmanuel Okon, MNSE, MNIFEngM, MNSBE	Member
Engr. Kelechi Uchenna Ugoji, MNSE, MNIFEngM	Member
Engr. Dr. Nnamere Ezekiel Aneke, FNSE, FNIEEE, FCIPE, SMIEEE	Member
Engr. Abiodun Michael Kolade, MNSE, MNIFEngM,	Member
Engr. Najeem Olawale Adedokun, FIOASD, MNSE, MNIFEngM, MNIEEE	Secretary

Signed:

Engr. Christopher Anierobi Egwuatu, FNSE, FNIFEngM
Chairman, 2023 Conference/Induction Committee

Engr. Olufemi Festus Ayanlowo, MNSE, MNIFEngM
Secretary, 2023 Conference/Induction Committee