



NIGERIA SECTION

AMERICAN SOCIETY OF CIVIL ENGINEERS
NIGERIA INTERNATIONAL SECTION

2024

**RESILIENT
INFRASTRUCTURE
CONFERENCE**

THEME: **BUILDING
CLIMATE-RESILIENT
INFRASTRUCTURE IN NIGERIA:**

THE KEY CHALLENGES AND OPPORTUNITIES

 WEDNESDAY
25TH
SEPT. 2024

 **9:00AM**
PROMPT

 **RADISSON BLU HOTEL,**
Ikeja Lagos

✉ conference@ascenigeria.org

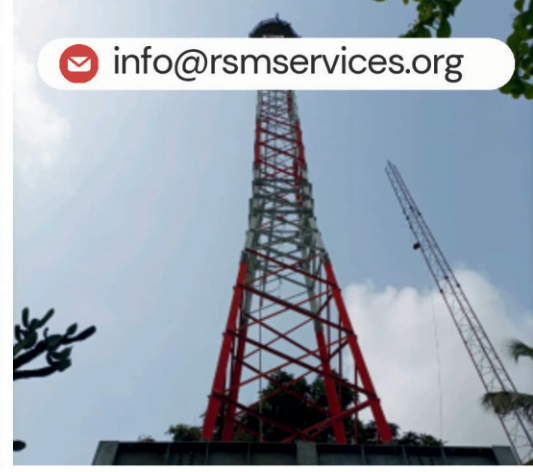
✉ nigeriasection@gmail.com

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Our Services

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- **Project Management**



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Telecoms Infrastructure Provision Across Africa

- 📍 Nigeria 1, Akin-Ogunmade Davies Close, Off Olumoroti Jaiyesimi Street, Gbagada Phase II, Lagos State, Nigeria.
- 📍 Congo 305, Av. Haut Congo, Q/Ngomba-Kinkusa, C/Ngaliema, V/Kinshasa, P/Kinshasa, DR Congo
- 📍 Niger No 214, Round Point Harobanda. Acote de la Marie, Niamey, Niger Republic
- 📍 Burkina Faso Secteur 52, Moisom No 135, Patte D'oile, Rue 15-54, Ouagadougou, Burkina Faso
- 📍 Virtual Offices in Kenya, South Africa, Ghana and Uganda



NIGERIA SECTION

AMERICAN SOCIETY OF CIVIL ENGINEERS
NIGERIA INTERNATIONAL SECTION



INVEST IN YOURSELF BECOME A MEMBER OF ASCE

Join **ASCE** for professional support and growth that you won't find anywhere else. With **ASCE**, you get access to the best professional and technical resources to put you at the forefront in your career.

MEMBERSHIP BENEFITS



Professional Development



Global Recognition



Career resources



Technical Resources



Networking



Discounted Benefits

visit ascenigeria.org/membership to learn more

ASCE Nigeria Section holds her Quarterly Meetings on the last Thursday of March, June, September and December.

Email: nigeriasection@gmail.com, Info@ascenigeria.org,

Website: www.ascenigeria.org,

PROGRAM SCHEDULE

S/No.	ACTIVITY	TIME
1	Registration/Accreditation	9:00 - 9:20
2	Conference call to order	9:20 - 9:30
3	National Anthem/Prayer	9:30 - 9:35
4	Engineers Creed	9:35 - 9:37
5	Housekeeping/Safety Moment	9:37 - 9:40
6	Introduction/Recognition of Guests	9:40 - 9:50
7	Opening Remarks	9:50 - 9:55
8	Welcome Address	9:55 - 10:05
9	Expert Presentation-1 (Main streaming Climate Resilience into Infrastructure: A Life Cycle Approach)	10:05 - 10:25
10	Goodwill Messages (5 mins each)	10:25 - 10:45
11	Tea Break	10:45 - 11:15
12	Expert Presentation-2 (Workforce Development for Resilient Infrastructure: Training the next Generation of Civil Engineers)	11:15 - 11:35
13	Keynote Address	11:35-11:55
14	ASCE Nigeria Section: Who we are, What we do, and Why join us	11:55-12:00
15	Announcement	12:00-12:05
16	Lunch Break/Exhibitors Pitch	12:05-12:55
17	Goodwill from ASCE Region 10	12:55-13:05
	Guest Speaker Presentation (Critical Role of Civil Engineering in Climate Adaptation)	13:05-13:30
18	Goodwill Messages (5 mins each)	13:30-13:50
19	Panel Discussion/ Q&A	13:50-15:20
20	Poster Presentation - (Leveraging BIM and Emerging Technologies for Nigeria's Climate-Resilient Infrastructure)	15:20-15:45
21	ASCE Presidential Goodwill Message	15:45-15:55
22	Key Conference Takeaways	15:55-16:05
23	Young Members' Presentation/FWV Cinema Trailer	16:05-16:25
24	Closing Remarks/Goodwill Messages	16:25-16:45
25	Vote of thanks	16:45-16:50
26	National Anthem	16:50-16:52
27	Group Photographs and Networking	16:52-17:00
	TOTAL DURATION	5:00pm



His Excellency,
BOLA AHMED TINUBU GCFR
President & Commander-in-Chief, Armed Forces of the
Federal Republic of Nigeria



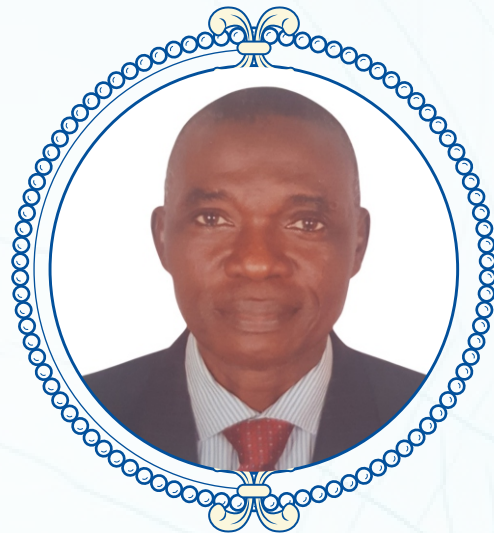
MARSIA GELDERT-MURPHEY

P.E., ENV SP, F.ASCE
President, American Society of Civil Engineers



APRIL J. LANDER

MEM, JP, ENV SP, A.M.ASCE
ASCE Region 10 Int'l Director



ENGR. SALIU LAWAL

FNICE MASCE,
Asce Region 10 Governor



ENGR AUSTIN ODIBI

MNSE, M.ASCE
President American Society Of
Civil Engineers, Nigeria Section



ENGR EMEM M. ABASIATTAI

FNSE, F.ASCE
Chair, Programs and Membership Committee

THE NATIONAL ANTHEM



Nigeria we hail thee,
Our own dear native land,
Though tribes 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 ENGINEERS' CREED (2021)

As a Professional Engineer, I dedicate my professional knowledge to the advancement and betterment of public health, safety, and welfare.

I pledge:

To give the utmost of performance;
To participate in none but honest enterprise;

To live and work according to the highest standards of professional conduct;

To place service before profit, the honor and standing of my profession before personal advantage, and the public welfare above all other considerations.

In humility, I make this pledge.

BRIEF HISTORY OF ASCE NIGERIA INTERNATIONAL SECTION

ASCE Nigeria International Group of the American Society of Civil Engineers (ASCE) was inaugurated in 2000 through the pioneering efforts of Dr. Emmanuel A. Adeyemo, FASCE, FNSE, FNICE, FNIM, MIABSE - the Founding President. The Founding President with the cooperation of Engr. Yinusa Idowu, FASCE, FNSE, FICE, Engr. Benjamin McDavid, MASCE, MNSE and seventeen (17) other financially current ASCE members in Nigeria submitted a petition to the ASCE Headquarters in Reston, USA for the approval and inauguration of ASCE Nigeria International Group in 2000.

In 2009, the ASCE in Nigeria was upgraded to an International Section by ASCE Board of Direction. Since then, ASCE Nigeria International Section has experienced great transformation in leadership, membership and participation in local and international activities. This development has led to having Seven (7) successive presidents and one (1) president-elect as follows; Engr. Benjamin A. McDavid, MASCE, MNSE (President, 2009-2013), Engr. Tolulope Talabi, MASCE, FNSE (President, 2013-2015), Engr. Blessing Oboh, FASCE, MNSE (President, 2015-2017), Engr. Saliu Lawal, MASCE, FNSE, FNICE (President, 2017-2018), Engr. Ajose Otinwa, FASCE, FNSE, FNICE. FNIStructE (President, 2018-2021), Engr. Rasheed Hassan, FASCE, FNSE, FNICE (President, 2021-2023), Engr. Augustine Odibi, MASCE, MNSE (President 2023-2025) and Engr. Emem M. Abasiattai, FNSE, F.ASCE (President-Elect, (2023 - 2025)

In 2008, the founding President, Engr. Dr. Emmanuel A. Adeyemo, FASCE, FNSE, FNICE, FNIM, MIABSE was elected as the Region 10 Governor of the ASCE and became a member of the Region 10 Board of Governors of ASCE. He served in this position for a period of six (6) years till 2014. ASCE Nigeria International Section also achieved the appointment of Engr. Saliu Lawal, MASCE, FNSE, FNICE into the office of ASCE Region 10 Governor in 2018 and his membership of ASCE Region 10 Board of Governors, a position that he occupies till the present moment.

Furthermore, in 2020 Engr. Dr. Emmanuel A. Adeyemo, FASCE, FNSE, FNICE, FNIM, MIABSE was awarded the Distinguished Service Medal (DSM) of ASCE Region 10 Board of Governors for having served ASCE Region 10 meritoriously for more than 12 years.

ASCE Nigeria Section has sustained her vibrant quarterly meetings in Nigeria and quality participation and representation in ASCE annual international conferences in USA and other nations. The section has also consistently organized professional development programmes and activities such as industrial visits, student activities and exhibitions while grooming and mentoring of students and young engineers. The Abuja and Kaduna branches of ASCE Nigeria International Section were inaugurated in 2016 and 2020 respectively and it is our hope that more branches will be started in the coming years.

The current register of members indicates that over 500 financial members are duly recognized as members, as they have fulfilled mandatory requirements by the ASCE corporate headquarters in USA. Membership cut across Public Institutions (Universities, Ministries, Departments and Agencies of Government) and Private Institutions (Consultancy Firms, Contractors and Major Oil and Gas Companies).

Local Vision

To facilitate its local vision of propagating Civil Engineering ideals, in 2009, ASCE Nigeria Section made possible the signing of an Agreement of Cooperation (for professional development and cooperation) between ASCE Headquarters and the Nigeria Institution of Civil Engineers (NICE), a division of Nigeria Society of Engineers (NSE). This agreement was renewed in 2012 and 2015 and has the possibility to trigger significant beneficial opportunities in the coming years.

ASCE has a passion for preparing the civil engineering profession for tomorrow's world. The publication *The Vision for Civil Engineering in 2025* and *Achieving the Vision for Civil Engineering in 2025: A Roadmap for the Profession* marks the culmination of almost eight years of effort to redefine what it will mean to be a civil engineer in the world of the future. And *Vision 2025* has indeed gone global, with Chinese and Spanish translations. ASCE Nigeria Section keyed into and domesticated this vision by facilitating the endorsement of this vision by the Nigerian Institution of Civil Engineers in 2013.

MEMBERSHIP DRIVE

ASCE Nigeria International Section members are residents across Nigeria, hence, it is difficult to gather a significant number of members together during meetings at the national headquarters.

The current board members (consisting of members from across the country) have therefore created ASCE Nigeria branches in Abuja and Kaduna after receiving necessary approvals from ASCE Region 10 Board of Governors and ASCE Headquarters in Reston, VA. To date, ASCE-Nigeria has five student chapters and have plans to form more branches in Warri and Port Harcourt in the nearest future.

The board members also meet regularly to deliberate on the activities and modalities for expanding the current operational horizon of the section.



2023/2024 SECTION OFFICERS



ENGR AUSTIN ODIBI
M.ASCE
President



ENGR EMEM M. ABASIATTAI
F.ASCE
President-Elect



FUNMILAYO AIYENOWO
MASCE
Secretary



ENGR KINGSLEY ERIFETA
MASCE
Treasurer



AHMED AYINLA
MASCE
Publicity Chair



JULIET OBIEFULE
Young Member Rep



ENGR RASHEED HASSAN
F.ASCE, M.ASCE
Immediate Past President



ENGR. USMAN FALALU
MASCE
ASCE Kaduna President



ENGR. MOBOLAJI OLAGBEMI
MASCE
ASCE Abuja President

DISTINGUISHED GUESTS



MARSIA GELDERT-MURPHEY, P.E., F.ASCE
President, American Society of Civil Engineers
Chairman of the Occasion



**HIS EXCELLENCY,
MR. BABAJIDE SANWO-OLU, CON**
Executive Governor of Lagos State



ENGR. AUSTIN ODIBI, MNSE, M.ASCE
President, ASCE Nigeria International Section
Host

EVENT SPEAKERS



DR. IZIAQ ADEKUNLE SALAKO
Hon. Minister of State for Environment
KEYNOTE SPEAKER



DR. SIHAN LI, PH.D., P.ENG, M.ASCE
ASCE Chair on Adaptation to a Changing Climate
GUEST SPEAKER



ENGR. DR. TAMUNOEMI EFEBELI
Principal Civil Engineer SPDC
EXPERT PRESENTATION 1



ENGR. MOBOLAJI OLAGBEMIRO
President, ASCE Abuja Branch
EXPERT PRESENTATION 2



ENGR. OLUSOLA ALONGE
CEO, CitibIM
POSTER PRESENTATION

PANEL DISCUSSANTS



QS. DANJUMA P. WANIKO
MIRCS, MNIGS, MIEMA, CEnV
President, Green Building Council Nigeria



ENGR. NIMOT MULLI
Associate Partner, ARUP



ARC. OPEYEMI SINA-OLULANA
Deputy Project Lead, The Ark Legacy Project



ARC. OMOYENI OLAYIWOLA
Senior Architect and Sustainability Associate,
FMA Architects



ENGR. DR. BOLA MUDASIRU
CEO, Prolarank Ltd

INVITED STAKEHOLDERS



ENGR. UWEM OKOKO
FNSE
Managing Director,
Hensek Integrated Services Ltd



ENGR. KEN AZIKE
FNSE
Head Corporate Civil Projects SPDC



ENGR. PROF. SADIQ Z. ABUBAKAR
FNSE, FAEng
President, COREN



ENGR. MRS. OLUKOREDE KESHA
FNSE
Federal Controller of Works, Lagos State



MR. TOKUNBO WAHAB
Hon. Commissioner,
Lagos State Ministry of Environment
and Water Resources



ENGR. MARGARET A. OGUNTALA
FNSE
President, Nigeria Society of Engineers



ENGR. VIRGILIUS C. EZUGU
FNSE, FNICE, M.ASCE
National Chairman, Nigerian Institution of Civil Engineers



QS. DANJUMA P. WANIKO
MIRCS, MNIQS, MIEMA, CEnV
President, Green Building Council Nigeria



ENGR. ALI A. RABIU
FNSE, F.ASCE, MRF
Immediate Past COREN President

OPENING REMARKS

Good morning distinguished guests, fellow members of the ASCE Nigeria Section, and esteemed colleagues.

It is my great pleasure to welcome you all to the ASCE Nigeria 2024 Annual Conference, themed "Building Climate-Resilient Infrastructure in Nigeria: The Key Challenges and Opportunities."

As we gather today, we recognize the urgent need to address the pressing challenges posed by climate change on our nation's infrastructure. The impacts of climate change, including extreme weather events, rising sea levels, and environmental degradation, are becoming increasingly evident and severe.

Our conference aims to foster dialogue, share knowledge, and explore innovative solutions to build a more resilient and sustainable future for Nigeria. We will delve into the key challenges facing our infrastructure, discuss emerging technologies and best practices, and explore policy frameworks that can support climate-resilient development.

I hereby welcome all attendees to the conference. Grateful acknowledgement and sincere regards to the Honourable Minister of State for Environment, Federal Republic of Nigeria, Dr. Iziak Adekunle Salako. Your presence and contributions will undoubtedly enrich our discussions and enhance the impact of this conference.

I encourage all participants to engage actively in the panel discussions, expert presentations, and knowledge development opportunities. Let us work together to build a more resilient and sustainable Infrastructure for Nigeria and indeed the world we live in. Together, we can create a more sustainable and prosperous future for Nigeria.

Do have a fruitful and productive participation. My very best regards.

Engr. Emem M. Abasiattai F.ASCE
Chairman, Programs and Membership Committee
ASCE Nigeria Section

WELCOME ADDRESS

**BY THE PRESIDENT OF THE AMERICAN SOCIETY
OF CIVIL ENGINEERS (ASCE) NIGERIA SECTION**

Distinguished Colleagues, Esteemed Guests, Ladies and Gentlemen,

It is with great pleasure and a profound sense of responsibility that I welcome you to this pivotal conference on "Building Climate-Resilient Infrastructure in Nigeria: The Key Challenges and Opportunities."

As we gather here today, we recognize the global urgency surrounding climate change and the vital role civil engineers play in addressing its impacts. The American Society of Civil Engineers (ASCE) has long been at the forefront of this mission, advocating for sustainable infrastructure practices across the world. ASCE's global initiatives, such as the "Future World Vision" project, challenge us to envision and design resilient cities that can withstand the pressures of climate change, urbanization, and resource scarcity.

Our theme for this conference is a continuation of ASCE's commitment to creating infrastructure that not only meets today's needs but is also adaptable to future challenges. As we focus on Nigeria, a nation already facing the realities of climate change, we must draw on the lessons learned from ASCE's global activities. Furthermore, we must recognize the unique environmental, social, and economic conditions of our nation that require tailored approaches. The "International Conference on Sustainable Infrastructure" held in various cities worldwide has consistently highlighted the importance of integrating sustainability into infrastructure development. This conference in Nigeria is a significant step in further localizing those global discussions, ensuring that our infrastructure is not just resilient but also reflective of the unique challenges and opportunities within our country.

As we embark on this journey, it is crucial that we outline key policies for the Nigerian government to consider, ensuring that our infrastructure development is both resilient and sustainable:

1. **Adoption of a National Climate-Resilient Infrastructure Policy:** This policy should mandate that all new infrastructure projects incorporate climate resilience measures, such as flood defences, sustainable drainage systems, and the use of climate-adaptive materials. This aligns with global best practices promoted by ASCE and would ensure that Nigeria's infrastructure is prepared for the unpredictable impacts of climate change.
2. **Incentives for Sustainable Infrastructure Investments:** The government should introduce tax incentives, grants, and low-interest loans to encourage the private sector to invest in sustainable and resilient infrastructure. This approach has been successfully implemented in various countries and could stimulate the development of green infrastructure in Nigeria.
3. **Strengthening Building Codes and Standards:** It is imperative that Nigeria updates its building codes and standards to reflect the latest knowledge in climate resilience. This includes incorporating ASCE's guidelines on structural design, materials selection, and



disaster risk reduction. Enforcing these updated codes will ensure that all infrastructure developments are built to withstand the effects of extreme weather events.

4. **Development of a National Infrastructure Resilience Fund:** To finance the retrofitting of existing infrastructure and the construction of new resilient structures, the government should establish a dedicated fund. This fund would pool resources from both public and private sectors and could be supported by international climate finance mechanisms.
5. **Promotion of Public-Private Partnerships (PPPs):** The government should actively promote PPPs as a means to leverage private sector expertise and funding in the development of resilient infrastructure. This collaborative approach has been a cornerstone of ASCE's global advocacy and can be a powerful tool in Nigeria's infrastructure development.
6. **Implementation of a Climate Risk Assessment Framework:** Before any infrastructure project is approved, it should undergo a comprehensive climate risk assessment. This framework would evaluate the project's vulnerability to climate-related hazards and ensure that appropriate mitigation measures are in place.

As we deliberate over the next few hours, let us remember that our work is not just about structures and systems; it is about people—about protecting lives, livelihoods, and the environment. It is about ensuring that future generations inherit a Nigeria that is stronger, safer, and more resilient.

To the practitioners among us—engineers, architects, planners, and developers—I urge you to lead the charge in integrating climate resilience into every aspect of your work. Stay informed on the latest research and global best practices, continually improve your skills, and be innovative in your approach. Your expertise and dedication are crucial in building infrastructure that can withstand the tests of time and nature.

To all stakeholders—government officials, private sector leaders, civil society organizations, and community representatives—collaboration is key. We must work together to create policies that support sustainable development, invest in resilient infrastructure, and engage communities in decision-making processes. Your commitment and cooperation will determine the success of our collective efforts to build a resilient Nigeria.

I encourage each of you to engage fully in the sessions, share your knowledge and experiences, and collaborate with your peers. Together, we have the expertise and the passion to make a real difference.

Once again, I welcome you all and wish us a productive and inspiring conference.

Thank you.

ENGR. AUSTIN ODIBI, M.ASCE
President, ASCE Nigeria Section



Infrastructure and buildings are foundational to economic and social development, with civil engineers playing a pivotal role throughout their life cycles. Traditionally, engineering practices have relied on historical data to project future performance, leading to a reliance on stationary extrapolations of past observations. However, the impact of climate change—evident in rising temperatures and increased frequency and intensity of extreme weather events—poses significant challenges to this conventional approach. The characteristics of extreme hazards, including windstorms, intense precipitation, sea-level rise, heat waves, and drought, are becoming increasingly non-stationary, indicating that past climate patterns can no longer reliably inform future design standards. This shift necessitates reevaluating how we determine infrastructure design loads, emphasizing the importance of integrating non-stationary climate projections into engineering practices. To effectively adapt to these challenges, civil engineers must embrace a proactive, interdisciplinary approach that combines research and practice. This strategy should promote collaboration between the public and private sectors, empowering engineers to dynamically adapt infrastructure design and management to safeguard public safety in a changing climate.

Dr. Sihan Li.

PROFILE OF

DR. IZIAQ ADEKUNLE ADEBOYE SALAKO, MBBS
(Honourable Minister Of State,
Federal Ministry Of Environment)



Dr. Iziq Adekunle

Adeboye SALAKO is a Public Health Physician, health activist, politician, public analyst, community mobilizer, writer and radio presenter. He is a certified colposcopist and sonologist.

He has worked in many institutions including the Lagos University Teaching Hospital; Onicha General Hospital, Ebonyi State; St' Raphel Hospital, Lagos; Mucas Hospital, Lagos and the Lagos State Health Service Commission.

In 2007, Dr. Salako was appointed a commissioner in Ogun State, serving in 3 strategic Ministries of Agriculture, Housing and Health, where he was able to introduce innovations which promoted public health and the general welfare of the populace. In 2020, he was appointed as the Chairman, Ogun Hospitals Management Board.

In August 2023, he assumed office as the Honourable Minister of State, Federal Ministry of Environment. Among his primary responsibilities is the supervision and provision of political leadership for policy enactment and implementation of environmental programs, projects and initiatives of the Federal Government of Nigeria. This includes promoting sustainable development, conserving natural resources, addressing climate change, and ensuring environmental protection across the nation. Additionally, I collaborate with relevant stakeholders, advocate for environmental awareness, and work towards enhancing the quality of the environment for present and future generations.

PROFILE OF

DR. SIHAN LI
Ph.D, P.Eng, M.ASCE
(ASCE Chair on Adaptation to a
Changing Climate)



Dr. Li's expertise ranges

from numerical modeling of extreme natural hazards to risk assessment and structural reliability in the current and changing climate. He has more than ten years of experience in extreme wind

hazard assessment, wind engineering consultation, renewable energy, risk quantification, structural reliability evaluation, and catastrophe modeling. He has strong expertise in data science, statistics, natural hazard assessment from a local scale to a national scale, and risk and resilience assessment using climate models and catastrophe modeling.

Dr. Li's industrial practices and academic research have covered cities and regions in North America, Asia, Europe, Australia, Africa, and the Antarctic. He has many peer-reviewed publications, has been a peer reviewer for many academic journals, and has been invited many times as a member of the Thesis Evaluation Board for Ph.D. scholars. Some of his works have been used as a basis to update several international building codes and standards.

PROFILE OF

ENGR. DR. TAMUNOEMI EFEBELI

(Principal, Civil Engineer SPDC. Engineering Technical Authority and Asset Management System Lead Shell Petroleum and Development Company)



Engr. (Dr.) Tamunoemi

Efebeli is a business leader with over 17 years' experience in engineering design, construction, project management, maintenance, reliability and asset management in the energy sector. Among are primary responsibilities is driving business

performance improvements through effective application of the AMS/operational excellence processes. Some of her recent experiences and accomplishments include:

Execution of corrective actions backlog for civil structural assets through stakeholder management leading to business improvement, safety and availability for circa 300 assets.

Deployment of technology for inspection activities and achieved 85% cost and schedule improvement in underwater inspection activities.

Managing asset care and reliability networks towards developing asset care plans to drive planning and cost improvements in asset maintenance management.

Achieving 100% KPI reporting on operational excellence processes leading to sustainability in KPI reporting and performance improvement culture for leaders.

Driving coaching, engagement and training of business leaders towards achieving step change in process performance outcomes (production growth, safety targets, asset integrity & cost optimization).

Leading investigations for incidents and driving sustainable corrective actions in Shell assets, as Causal Learning Practitioner.

Engr. (Dr.) Tamunoemi Efebeli has keen interests in building professionals towards achieving their professional goals by tutoring, mentoring and support.

PROFILE OF

ENGR. MOBOLAJI PEACE OLAGBEMIRO, M.ASCE

(President, ASCE Abuja Branch)



Engr. Mobolaji Peace

Olagbemi is an accomplished civil engineer with over 17 years of experience in civil engineering, project management, and youth development. Currently serving as the President of the

American Society of Civil Engineers (ASCE) Abuja Branch of the Nigeria Section, she plays a pivotal role in advancing the engineering profession in Nigeria. Mobolaji has worked with leading international organizations, including the United Nations Office for Project Services (UNOPS), where she contributed to critical infrastructure development in North Eastern Nigeria, focusing on post-conflict recovery and sustainable infrastructure.

Mobolaji holds two Master's degrees, one in Civil Engineering and another in International Affairs and Diplomacy, equipping her with a unique perspective that blends technical expertise with global policy insights.

Outside the infrastructure sector, Mobolaji is the co-founder and vice president of Youth Arise Football Academy, Nigeria, where she supports youth empowerment through sports.

PROFILE OF

**ENGR. OLUSOLA
ALONGE, MNSE**

(Co-founder/COO, CitiBIM)



Engr. Olusola Alonge is a seasoned professional who delivers high-quality design and consulting services for a variety of infrastructure projects. As a Co-Founder/ CEO at CitiBIM, he leverages his expertise in

building information modelling (BIM), drone mapping, and photogrammetry to create efficient, sustainable, and cost-effective solutions for clients in the public and private sectors.

He has a proven track record of leading and supporting complex projects, such as the FCT Phase IV Landswap project, local roads, estate roads, and rail systems. He is also proficient in using various software tools, such as AutoCAD Civil 3D, Autodesk InRoads, AutoCAD Map 3D, Autodesk Recap, and Navisworks, to produce high-quality CAD drawings, design reviews, and BIM models. He is a skilled drone pilot and photogrammetrist, with the ability to capture and process aerial data for surveying, mapping, and analysis purposes.

As a co-founder of CitiBIM in 2019, He is passionate about driving innovation and excellence in the infrastructure industry, and always looking for ways to use technology to improve the design, construction, and operation of infrastructure projects, and to enhance the safety, quality, and performance of the built environment.

PROFILE OF

**QS. DANJUMA P.
WANIKO, MIRCS, MNIQS,
MIEMA, CEnV**
(Green Star SA AP. President,
Green Building Council, Nigeria)



Mr. Danjuma Waniko is an accomplished Sustainability Consultant, Project Manager, and Cost Consultant with over thirty years of experience in the construction and environmental sectors. A Fellow of the Royal Institute of

Chartered Surveyors and a Chartered Environmentalist, he holds a Masters in Sustainability & Environmental Management from Staffordshire University along with several advanced certifications, including Green Star SA Accredited Professional and DGNB International Consultant.

Since 1996, Danjuma has led Q Associates, a cost and green building consultancy firm he founded, spearheading high-impact projects like the National Assembly Service Commission Office Complex and the National Shared Services Center, both located in the heart of Abuja, Nigeria. His leadership extends to his role as President of Green Building Council Nigeria, positioning him as a key figure in Nigeria's journey towards sustainable urban development and green building.

Mr. Danjuma is committed to driving sustainability and innovation in the built environment and has contributed to scholarly discussions through publications and presentations at major conferences. His forward-thinking approach continues to shape the future of green building and sustainable urbanism in Africa.

PROFILE OF

ENGR. NIMOT MUILI,
Msc, FNSE, PMP
(Associate Partner, ARUP)



Nimot Muili is an Associate in Arup, Lagos office. She manages the climate and sustainability portfolio and plays a strategic role in the cities and property portfolios, covering projects on city resilience, renewable energy and water resources.

Nimot's work experience covers planning and delivery of infrastructure, urban renewal, programme & project management, contract administration, ESG, advisory in climate resilience, flood risk, climate action plan, lender's & independent technical advisor, and renewable / clean energy related project implementation. She has worked with various clients including governments; public and private companies; and multilateral and bilateral development funding agencies.

In delivering projects, she works to find and design pragmatic, sustainable, scalable, and cost-efficient solutions to improve city and micro areas resilience. These include the need for upgrade and regeneration solutions, especially in the hard to reach and susceptible communities.

Engr. Nimot Muili is well experienced in Green Infrastructure Design, Blue Infrastructure Design, Water Sensitive Urban Design (WSUD) and Sustainable Drainage Systems (SuDS) for quick and easy management of surface water.

She was also involved in the implementation and integration of the Ikoyi Urban Regeneration development into Lagos State's 25-year Master Plan and Lagos megacity resilience strategy.

PROFILE OF

ARC. OPEYEMI SINA-OLULANA
Deputy Project Lead,
The Ark Legacy Project



Opeyemi is a Chartered Architect with 15 years of extensive professional experience in Nigeria, where he has made a fair impact in sustainable building and project management. As a LEED Accredited Professional (BD+C) and one of the few USGBC LEED Faculty members in Nigeria, he is dedicated to advancing green building practices in the region.

In pursuit of this vision, he co-founded GreenScore Strategies Company, a firm

that offers expert advisory services to projects seeking LEED certification and individuals aiming for professional LEED accreditation. His broad experience as a construction manager spans projects in various sectors, including institutional, commercial, residential, and religious buildings. One privileged mention is his current role as Deputy Team Lead for the construction of "The Ark," a 100,000-capacity auditorium in Ota, Nigeria.

Beyond construction and architecture, Opeyemi holds both the PMP and PMI-ACP certifications, which reflect his expertise in managing complex projects with a focus on agility and strategic execution. This experience fuels his passion for professional development, which is channeled through Endless Lessons, a LinkedIn platform he runs, where he shares valuable insights and best practices in project management.

Health and safety in construction is another area of passion for Opeyemi. Recently, he launched the SMS (Safety Made Simple) platform on YouTube (SafetyMadeSimpleTV), introducing health, safety, and environment (HSE) training videos specifically narrated and illustrated in Pidgin, a language spoken by the majority of Nigerian construction workers. This initiative is aimed at promoting safety in a way that is accessible and easily understood by on-site workers, particularly artisans and unskilled labor.

Opeyemi has also held significant leadership roles, including Director of Physical Planning and Development at Landmark University, Kwara State and Director, National Projects at the World Mission Agency, LFCWW. These privileges have allowed him to merge architectural expertise with strategic oversight, enhancing both the physical and operational aspects of development projects. His commitment to sustainability and professional capacity building is unwavering. Through his YouTube channel, GreenScoreTV, he hopes to lead discussions on green education, product development, and sustainability initiatives, aiming to promote eco-friendly practices across different societal segments.

Opeyemi is an active writer, contributing topical articles that inspire and challenge industry norms, promoting both the green lifestyle and responsible project management.

He is a professional member of the Green Building Council of Nigeria.

PROFILE OF

ARC OMOYEMI OLAYIWOLA

(Senior Architect and Sustainability Associate, FMA Architects)



Arc. Omoyemi Olayiwola

is a seasoned architect with over a decade of professional experience in innovative design and sustainability. She holds a Master's degree in Environmental Design from the University of Lagos and currently works as a Senior Architect and Sustainability Associate

at FMA Architects Ltd, one of Nigeria's leading architectural firms.

She is a full member of the Nigerian Institute of Architects (MNIA), a Chartered Member of the Royal Institute of British Architects (RIBA), and a LEED Green Associate, showcasing her strong commitment to sustainable architecture. Omoyemi has earned recognition from prestigious organizations, including the United States Green Building Council (USGBC) and the Royal Architectural Institute of Canada (RAIC), for her contributions to the field.

In her role at FMA Architects Ltd, Omoyemi has led numerous projects, blending functionality with sustainability to create spaces that not only meet client needs but also enhance the health and well-being of their occupants. She is also a WELL Accredited Professional (WELL AP), highlighting her expertise in designing environments that promote holistic health.

Beyond her architectural work, Omoyemi serves as the Director of Policy and Advocacy at the Green Building Council Nigeria (GBCN). Here, she spearheads initiatives aimed at promoting green building standards across Nigeria. As a passionate advocate for environmental sustainability, she volunteers with organizations like SLUM2SCHOOL and actively participates in public forums to champion the cause of a healthier, more sustainable built environment.

In 2022, Omoyemi was awarded the Fate Foundation Aspiring Entrepreneurs Sustainability Scholarship, further cementing her role as a leader in sustainable design and environmental advocacy.

PROFILE OF

ENGR. DR. BOLA MUDASHIRU, FNSE, FNICE, FNIHTE, FIHE, FIPMA, DFILMMD, FIPMC, FCPM, M. ASCE
(CEO, Prolarank Ltd)



Engr. (Dr.) Mudashiru

Bola is an accomplished Civil Engineer, Construction and Safety Professional with over 19 years of professional experience in Civil Engineering and Construction Management. He has operated with

diversified domain projects in civil engineering ranging from medium to large scale industries. He has expertise in project cost estimation, negotiations for projects at various levels, up to date knowledge about various government and private body regulations and is well experienced in project management.

Engr. Dr. Mudashiru Bola is the Principal Partner/CEO of Prolarank Nigeria Limited (Construction and Engineering firm). He worked with various construction companies such as P.W. Nigeria Limited, Mitcherutti Contractors, Palton Morgan Holdings, SCOA Nigeria Plc, Aquagrowth Nigeria Limited and Krisbol ESL. He has supervised, led and managed project teams for various road and bridge, civil and steel structure erection projects across Nigeria.

He is the National Secretary General of the Nigerian Institution of Highway and Transportation Engineers (NIHTE). He is also a member of the International Relations Committee of the Nigerian Society of Engineers (NSE).



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