



ISSN: 2315-8913 print ISSN: 1595-4110 digital

JOURNAL OF THE NIGERIAN INSTITUTE OF ARCHITECTS (NIAJ)

AGM December 2024 Vol 3 ISSN: 2315-8913 print ISSN: 1595-4110 digital

About NIAJ

Journal of the Nigerian Institute of Architects (NIAJ) is an academic journal, which is coordinated by the Library and Publications Committee of the Nigerian Institute of Architects. The first issue of NIAJ was published in 1981. Before 2023 all copies of the journal were printed with ISSN 2315-8913, however since 2023, the journal is printed digitally.

The Journal of the Nigerian Institute of Architects, NIAJ publishes oriainal research reviewed. review articles on architecture and the built environment in an open access format. NIAJ comprehensive journal, accepting articles that span the full extent of the behavioural social, and environmental sciences as well as the humanities. NIAJ aims to be the leading journal in architectural

research and practice matters. Through a rigorous review of relevant literature and evaluation of valid research methods in articles. the journal aims to be a publishing reference in the architecture field. While this journal is the flagship publication for The Nigerian Institute Architects, papers are restricted to the profession, rather multidisciplinary research encouraged in line with global best practices.

NIAJ is calling for papers! All the manuscripts in architecture and civil engineering are welcome and appreciated. NIAJ publishes original research papers with high quality, and the submitted manuscript will go through peer-review process.

Editor-in Chief **Prof Erekpitan O. Ola-Adisa, PhD MNIA**

Contact us: **NIAJ**

Tel: +234-808-6607159

Website: https://nia.ng
Landing page: https://niaj.org
E-mail: nia.libpub@nia.ng
editor.niaj.nia.ng

NIA EXECUTIVE COUNCIL 2023-2025

Arc Mobolaji Adeniyi, FNIA

Arc Sani I. Saulawa, FNIA Arc Chioma Wogu-Ogbonna, FNIA

Arc Ali Mukhtar, FNIA

Arc Enyi Ben-Eboh, FNIA, Arc Chike Ibeanu, FNIA

Arc Oyegoke Omigbodun FNIA

Arc Prof Abdullahi Abubakar, FNIA

Arc Murtala Babaji, FNIA

Arc Dr Musa Mohamed Sada, FNIA

Arc Peter Honest Dateme, FNIA Arc Fitzgerald C. Umah, FNIA

Arc Afolabi Adedeji, FNIA

Arc Dr John A. Bawa, MNIA Arc Chris Uloko, FNIA

Arc Joy Baderin FNIA Arc Justice Akwuh, FNIA

AGA

President

1st Vice President 2nd Vice President 3rd Vice President

Immediate Past President Honorary General Secretary

National Treasurer

Chair, Board of Architectural Education

Chair, Admissions Committee Chair, Disciplinary Committee Chair, Practice Committee

Chair, International Affairs Committee Chair, Library & Publications Committee

Chair, Students Affairs Committee Chair, Public Relations Committee

Ex Officio 1 Ex Officio 2

iii

LIBRARY AND PUBLICATION COMMITTEE MEMBERSHIP 2023-2025

| 1. | Arc Afolabi Adedeji, FNIA Chair | 17. | Arc (Dr) Chidinma Emma-Ochu, MNIA |
|-----|---------------------------------------|-----|---------------------------------------|
| 2. | Arc Uchechukwu Obed Wisdom, MNIA | 18. | Arc Peter Adewale, MNIA |
| | Secretary | 19. | Arc Ibrahim Muhammad Kawuwa, MNIA |
| 3. | Arc Prof Erekpitan O. Ola-Adisa, FNIA | 20. | Arc Musa Abubakar Ibrahim, MNIA |
| | Head, Journal Editorial Board | 21. | Arc Jerrison Julius Kussiy, MNIA |
| 4. | Arc (Dr) Chinwe Okpoechi, FNIA | 22. | Arc (Dr) Mokolade Johnson, MNIA |
| | Head, Research and Publications | 23. | Arc Nnabuife Leonard Iho, MNIA |
| 5. | Arc Adenike A. Olugbesan, MNIA | 24. | Arc Moniba Odunlami, MNIA |
| | Head, Library & Archives | 25. | Arc Sunday Abiodun Kuti, MNIA |
| 6. | Arc. Chike Ibeanu, FNIA, HGS | 26. | Arc Tafida Ismaila, MNIA |
| 7. | Arc Fitzgerald Umah, FNIA, | 27. | Arc Christie Atarie, MNIA |
| | Immediate Past Chair | 28. | Arc Azeez Olawale Oladunmoye, MNIA |
| 8. | Arc Aliyu Abdullahi, MNIA | 29. | Arc Uche Ukeje, MNIA |
| 9. | Arc Danjuma Sokolayan Ageni, MNIA | 30. | Arc Michael Onyemachi Ajufo, MNIA |
| 10. | Arc Jamila Usman Hussain, MNIA | 31. | Arc. Omoyemi Titilayo Olayiwola, MNIA |
| 11. | Arc Kabiru Umar Yabo, MNIA | 32. | Arc Ugochukwu Uwadi, MNIA |
| 12. | Arc (Prof) Abubakar Danladi Isah,MNIA | 33. | Arc Chike Jang Onyeneto, MNIA |
| 13. | Arc Belema Amakiri-Whyte, MNIA | 34. | Arc. Agatha Odigie, MNIA |
| 14. | Arc (Prof) Brisibe Warebi, MNIA | 35. | Arc (Dr) Enobong B. Equere, FNIA |
| 15. | Arc Catherine Bekibele, MNIA | 36. | Arc Ochudo Ayi, MNIA |
| 16 | Are Olavinka Ibiyami Williams FNIA | | |

EDITORIAL BOARD

Editor in Chief

Arc Prof Erekpitan Omoikhefe Ola-Adisa, FNIA (University of Jos)

Editorial Secretary

Arc Dr Chidinma A. Emma -Ochu, MNIA (Federal Polytechnic, Nekede)

Chair, Library and Publications Committee

Arc Afolabi Adedeji, FNIA

Arc Prof Warebi Brisibe, MNIA (Rivers State University of Sciences and Technology, Nkpolu-Oroworukwo)

Arc Prof Abubakar Danladi Isah, MNIA (Federal University of Technology, Minna)

Arc Dr Nnezi Uduma-Olugu, FNIA (University of Lagos)

Arc Dr. Chinwe Okpoechi, FNIA (Federal Polytechnic, Nekede)

Arc Dr Sarkile Kawuwa, MNIA (Abubakar Tafawa Balewa University, Bauchi)

Arc Dr Mokolade Johnson, MNIA (University of Lagos)

Arc Dr. Enobong B. Equere, FNIA (University of Uyo)

Dr Yakubu Aminu Dodo (Najran University, Saudi Arabia)

Arc Dr Nnabuife Leonard Iho (Ministry of Works & Infrastructure, Enugu)

Arc Olayinka Ibiyemi Williams, FNIA (Fola Alade and Associates, Lagos)

Arc Jonathan D. Chong, MNIA (University of Jos)

Arc Peter Adewale, MNIA (Federal Polytechnic, Ado-Ekiti)

Arc Agatha Odigie, MNIA (VervePoints, Abuja)

Arc Jamila Usman Hussain, MNIA (Aliko Dangote University of Science and Technoligy, Wudil Kano)

Arc Ibrahim Kawuwa, MNIA (Taraba Investment and Properties imited)

Arc Uche Wisdom Obed, MNIA (Designforte Architects, Ibadan)

Arc Tafida Ismaila, MNIA

Arc Chike Jang Onyeneto, MNIA

From the Chair, Library and Publications Committee

I am pleased to present this special issue of the 2024 AGM papers, centred on the vital theme of "Architects as Agents of Social Transformation." This collection of insightful research and perspectives arrives at a crucial moment, as our society increasingly recognises the profound impact of the built on environment social eauity, sustainability, cultural and preservation, with a particular emphasis on inclusivity.

This issue delves into kev subthemes: Inclusive Design for Accessible and Equitable Spaces; Community-Engaged Architecture and Participatory Processes; Integrating Indigenous Knowledge and Cultural Preservation; and The Architect's Role in Social Justice and Sustainable Development. These themes underscore the importance of designing for all members of society, ensuring that sustainable practices are inherently inclusive, from tourism to housing development.

The papers within this volume offer invaluable insights and frameworks for understanding how architects can actively contribute to positive social change through inclusive and sustainable design. They provide a hopeful vision for how we can build more inclusive, resilient, and culturally sensitive communities, ensuring that the

benefits of sustainable development are shared by everyone.

What shines through is a deep identifying commitment to positive, pathways for systemic change that prioritises inclusivity. Whether it's rethinking urban design accessibility for to ensure regenerative developing landscape practices that respect indigenous knowledge, envisionina new aovernance structures that promote equitable access to resources, these papers provide a clear-eyed vision for how we can build a more equitable future for all, through sustainable architectural and inclusive practices.

We extend our deepest gratitude to the authors, reviewers, and the Editorial Board of the Library and Publications Committee who have dedicated their time and expertise to making this edition possible. Your contributions are invaluable, and we are honoured to showcase your work, which highlights the critical role of architects in creating a more inclusive and sustainable world.

Arc Afolabi Adedeji, FNIA

Chair, Library and Publications Committee

It is with great pleasure that I introduce this special edition of the 2024 AGM papers, dedicated to exploring "Architects as Agents of Social Transformation." The essays within offer fresh and insightful perspectives on the significant shifts occurring within our societies, economies, and environments. They underscore the vital part architects play in shaping brighter future, notably in areas such as sustainable tourism, student accommodation, and the design of essential public spaces.

In a time that demands inventive answers to pressina societal problems. this collection exceptionally timely and crucial. Our contributors have embraced the challenge of not only mapping the intricate forces driving social change but also charting courses toward more sustainable and equitable **futures** through architectural innovation. Thev concentrate on tourism that respects local communities and environments, student residences that are both functional and well-being, and the promote creation of essential spaces that address critical community needs.

The authors delve into a range of pressing issues, from promoting inclusive design and community involvement to tackling affordable housing challenges and integrating indiaenous knowledge. The papers explore in detail how to develop tourism infrastructure that minimises environmental impact celebrates local cultures, design student housing that builds community and supports learning, and create essential spaces – such as clinics and community centres that are both practical empowering. The breadth depth of analysis are particularly

noteworthy, drawing on diverse viewpoints to provide comprehensive understandings of the transformations underway. This work is not merely theoretical. Throughout these papers, there runs a clear sense of urgency and dedication to identifying practical, actionable solutions. The ideas presented offer tangible strategies for architects to drive positive changes in tourism, education, and community welfare.

We believe that the readership of the NIA - including architects, built environment professionals, policymakers, and enaaaed citizens - will find great value in engaging with the insights presented in this volume. As we collectively work to create positive social impact through the built environment, with particular a focus on sustainable tourism, innovative student housing, and empowering public spaces, this publication serves as a resource for those seeking to build fairer, more resilient, and culturally vibrant society.

The Journal of The Nigerian Institute of Architects is proud to showcase this important research and commends editors and the contributors for their outstanding work. I am confident that this collection will have a lastina impact on the critical conversations surrounding social transformation and the architect's key role in that process, especially concerning the development of responsible tourism, supportive student environments, and essential community infrastructure.

Arc Prof E.O. Ola-Adisa, PhD FNIA Editor-in - Chief

Guide for Authors

NIAJ is a comprehensive journal, accepting articles that span the full extent of the social. behavioural and environmental sciences as well as the humanities. NIAJ aims to be the leading journal architectural research and practice matters. Through riaorous review of relevant literature and evaluation of valid research methods in articles, the journal aims to be a publishing reference in the architecture field. While this journal is the flagship publication for The Nigerian Institute of Architects, papers are not restricted to the profession, rather multidisciplinary research is encouraged in line with global best practices. The articles must be original and should not have been published previously, and manuscript will be double-blind peer reviewed. NIAJ is a unique open access publication provides free full text download of all articles published in the journal through the platform

https://niaj.org) without any page charges or subscription requirements. Authors are invited to submit papers through the submission system. Once your article is accepted, you will email receive an from the system. The submission email contains a link to check the status article. Before vour VOU contribute to NIAJ, you should read the following contents

Types of paper

Contributions falling into the following categories will be considered for publication: Original

Research papers, Reviews. Please ensure that you select the appropriate article type from the list of options when making your submission. Authors contributing to special issues should ensure that they select the special issue article type from this list.

Submission checklist

You can use this list to carry out a final check of your submission before you send it to the journal for review. Please check the relevant section in this Guide for Authors for more details.

Ensure that the following items are present:

- Downloaded manuscript template from the platform
- One author designated as the corresponding author with contact details:
- E-mail address
- Full postal address
 All necessary files have been uploaded:

Manuscript:

- Include keywords
- All figures (including relevant captions)
- All tables (including titles, description, footnotes)
- Ensure all figure and table citations in the text match the files provided
- Indicate clearly if colour should be used for any figures in print

Further considerations

 Manuscript has been "spell checked" and "grammar checked"

- All references mentioned in the References are cited in the text, and vice versa
- Permission has been obtained for use of copyrighted material from other sources (including the Internet) and checked for plagiarism as NIAJ will not accept more than 25% of similar materials.
- Journal policies detailed in this guide have been reviewed

Publishing ethics

This journal operates a double-blind review process. All contributions will be initially assessed by the editor for suitability for the journal. Papers deemed suitable are then typically to а minimum of independent expert reviewers to assess the scientific quality of the paper. The Editor is responsible for final decision reaardina acceptance or rejection of articles. The Editor's decision is final. The peer review process is following: Author submits paper to journal→ Editor's initial evaluation of paper (go to next step if it meets the requirements of journal, otherwise reject and inform author)→ Invite experts for peer review→ Experts send comments to editor→ Editor decides to accept (or reject and inform authors)→ Editor asks author revise→ Author revises and submits revised paper→ **Fditor** and/or oriainal reviewers evaluate to decide further revisions needed or reject or accept \rightarrow Inform author

Proof
One set of page proofs (as PDF

files) will be sent by e-mail to the corresponding author or a link will be provided in the e-mail so that authors can download the files themselves. Please list vour corrections quoting line number. If, for any reason, this is not possible, then mark the corrections and any other comments (including replies to the Query Form) on a printout of your proof and return by fax or scan the pages and e-mail. Please use this proof only for checking the typesetting, editing, completeness and correctness of the text, tables and figures. Significant changes to as accepted article publication will only be considered at this stage with permission from the Editor. It is important to ensure that all corrections are sent back to us in one communication: please check carefully before replying, as inclusion of any subsequent corrections cannot be auaranteed.

Offprints

The corresponding author, at no cost, will be provided with a PDF file of the article via e-mail (the PDF file is a watermarked version of the published article and includes a cover sheet with the journal cover image and a disclaimer outlining the terms and conditions of use). For an extra charge, paper offprints can be ordered via the offprint order form which is sent once the article is accepted for publication. If you encounter any problems at any stage with the submission system, please contact the editor via editor.niaj@nia.na

Table of Contents

| Title Critical Regionalism: A Case Study of Recreation and Resort Projects in Nigeria Abdulwahab Engoworo Etudaiye, Muhammad Idris Bala Abdullahi Nura Sani, Mohammed Baba Sada and Amos Mbaya Hyelkuzuku | Pages 1-13 |
|---|---------------|
| Assessment of Students' Satisfaction with Quality of Off Campus Students Lodges in Malete, Kwara State, Nigeria W. A. Idakwoji and J.O. Adeyemi | 14-22 |
| Sustainability Analysis of TETFUND Intervention Buildings Using Architectural Design Quality Indicators in Kaduna Polytechnic Olayiwola B. Olaniyi, Juliet Azuka Obaje, William Barnabas Qurix and Musa Lawal Sagada | 23-34 |
| Architecture as a tool for sustainable learning in a Primary School in Ota, Ogun State, Nigeria` Oluwadamilola Ajoke Alabi, Oreoluwa Deborah Adebakin, Adewale Segun Alabi, Caroline Olaitan Alayande, and Taiwo Ezekiel Adebakin | 35-44 |
| The Effects of Shading Devices on Occupant Thermal Comforts in some Selected Residential Buildings in Bauchi Metropolis, Nigeria Muhammed Murtala Bello, Eneye Halilu Lawal, Amos Musa Tarni, and Nasiru Auwalu Umaru | 45-51 |
| Waste Management Strategies in K-12 Schools in North Central Nigeria: An Appraisal in Jos Umar Ahmed Audu, Erekpitan Omoikhefe Ola-Adisa, Yakubu Aminu Dodo, Nasiru Auwalu Umaru, and Mangut Salihu | 52-59 |