

# 1<sup>ST</sup> INTERNATIONAL CONFERENCE OF ENVIRONMENTAL SCIENCES

## ICES 2019

THE PROCEEDINGS OF INTERNATIONAL CONFERENCE OF  
ENVIRONMENTAL SCIENCES

ICES 2019

### EDITORS

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29<sup>th</sup> – 30<sup>th</sup>  
**APRIL,**  
2019

**FACULTY OF ENVIRONMENTAL SCIENCES,**  
UNIVERSITY OF ILORIN, ILORIN, NIGERIA



# ICES2019

INTERNATIONAL CONFERENCE OF ENVIRONMENTAL SCIENCES

COLLABORATION FOR SUSTAINABLE  
DEVELOPMENT IN THE BUILT ENVIRONMENT

Editors:

Ajibade, L.T; Tanimowo, N.B, Amuda-Yusuf, G and Bello N.A

Faculty of Environmental Sciences, University of Ilorin, Ilorin, Nigeria

# ICES2019

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INTERNATIONAL CONFERENCE OF ENVIRONMENTAL SCIENCES - 2019

## COLLABORATION FOR SUSTAINABLE DEVELOPMENT IN THE BUILT ENVIRONMENT

ISBN 978 – 978 – 973 – 294 – 4

**Publisher**

Faculty of Environmental Sciences  
University of Ilorin,  
Ilorin, Kwara State,  
Nigeria.

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**Typesetting by**

Provortex Consultants  
(+234) 08035226314, 08035799443

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**Cover Design & Print**

MJY - Press Enterprise  
(+234) 08060733309, 08054329767

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## FOREWORD

It's my privilege and pleasure, on behalf of the Vice Chancellor of this great institution, Prof. Sulyman Agenjolola AbdulKareem, to welcome you all here today. It has been a long journey since the idea of the first *International Conference of Environmental Sciences* (ICES) was mooted. It looks then that we cannot do it, what with many other problems we have to cope with as a very young Faculty.

Being the very first academic outing of our fledgling faculty, we are all aware that it cannot be our best effort. We just needed to start somewhere, hoping that in subsequent years, as we develop capacity, we will continue to build on gains of today. So feel free to tell us areas we can improve upon because in years to come, the goal is to make ICES a flagship biennial national dialogue.

The encouragement for the university administration, particularly our Leader and Vice Chancellor, Prof. Abdulkareem and the doggedness of faculty staff and students have made today a reality. I therefore want to appreciate our Vice-Chancellor and my colleagues in the faculty for making today possible. .

The goal of sustainable development is to meet the needs of today, without compromising the needs of tomorrow. This implies that we cannot continue using current levels of resources as this will not leave enough for future generations. Therefore, stabilising and reducing carbon emissions is key to living within environmental limits as this will create a truly sustainable built environment that is fit for the future.

The theme, *Collaboration for Sustainable Development in the Built Environment*, captures our focus as academia and professional in the larger society and the broaden Sustainable Development Goals (SDGs). Beyond that, it gives exciting opportunities to several of our professionals like Quantity Surveyors, Architects, Geologists, Geo informatics, Town Planners, Land Surveyors, Estate Valuers, Engineers etc to express themselves and their activities at ICES.

Collaboration is essential for development in today's world because real life challenges require researches that are multidisciplinary in nature. When you want to control flooding for instance, you need Civil Engineers, Soil Scientists, Geographers, Geologists, even Public Relations Professionals etc for diverse roles.

For robust development of built environment in a sustainable ways, **geographers**, who are concerned with the study of places and relationships between people and their environments; **Surveying and Geo-Informatics Professionals** who are concerned with geo-data and geo-information about locations in relation to the earth and **Urban and Regional Planners** who will develop and design use of land are essential partners.

Furthermore, **Architects** helps with planning, designing, and construction of buildings and any other structures that made up the environment while based on the structural performance of different materials and geometries the **Structural Engineers** design the 'bones and muscles' that create the form and shape of the structures designed by the Architect. **Services Engineers** strive to achieve a safe and comfortable indoor environment whilst minimizing the **environmental impact** of buildings through collaboration with **Chemical Engineers** and other specialists. Then **the Quantity Surveyors**, who are the construction cost experts, will predict and manage construction cost from inception to completion.

So evidently, we must all collaborate to make possible the attainment of Sustainable Development Goals (SDGs). And as if to emphasize the need for collaboration, the drafters of the Seventeen (17) Sustainable Development Goals made goal Seventeenth, perhaps the ultimate goal- partnership for all the previous 16 goals. Besides, the University authorities here have always emphasize multidisciplinary collaboration among researchers.

We are honoured to have Prof. Adeniyi Suleiman Gbadegesin, our Keynote speaker, in our midst this morning. He is a colossus and mentor to many professors of Geography. As an international scholar of repute with wide and varied experience, this gathering will benefit immensely from his paper.

Similarly, we have with us Prof. Ahmad Doko Ibrahim of the Department of Quantity Surveying and Project Construction Management, Ahmadu Bello University (ABU) Zaria who had done a lot to bring ABU into reckoning. I salute you sir and welcome you heartily.

The 1<sup>st</sup> International Conference of Environmental Sciences (ICES 2019) received a total of 150 abstract, accepted 72 and today we have a total of 49 full papers to be presented by authors in 6 parallel sessions. Students' competition on the theme of the conference will be conducted to conclude the activities of the conference.

Let me express the warm appreciation of staff and students of this faculty and the entire university to all our professional colleagues who are gracing this occasion in the spirit of town and gown mandate.

"It's therefore my pleasure to extend a cheerful welcome to you all! Your presence makes us very happy."

Thank you for coming

**Dr. Ganiyu Amuda-Yusuf**  
**Ag. Dean Faculty of Environmental Sciences**

## ACKNOWLEDGEMENTS

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The First International Conference of Environmental Sciences (ICES 2019) organized by the Faculty of Environmental Sciences, University of Ilorin, Nigeria owes its success to the hard work, commitment and support of individuals both in the academia and the general public. These individuals provided the technical, financial and logistic supports that enable the Faculty realize the objectives of this epoch making academic event.

First, the Local Organizing Committee (LOC) sincerely appreciates the Vice Chancellor of University of Ilorin – Professor Sulyman Age Abdulkareem, who provided huge moral and logistic support for the Faculty to make the conference possible. We are grateful to the Vice Chancellor and the entire University Management for providing accommodation and transport logistics for the Guest Speakers and for the general smooth running of the conference. This singular support demonstrates the commitment of the Vice Chancellor and his Management team to academic excellence which enhances the visibility of University of Ilorin both nationally and internationally.

The LOC is grateful for the dynamic leadership of the Acting Dean of the Faculty of Environmental Sciences – Dr. Ganiyu Amuda-Yusuf, whose vision and relentless efforts saw to the conception, planning and execution of this conference. Your support and encouragement have, in no small measure, assisted in the realization of the objectives of this conference. The support of the Acting Dean of Faculty of Communication and Information Sciences (CIS) – Dr. Jimoh R.G. at the conceptual and implementation stages of the conference is quite commendable. His inputs help crystallize the conference concept notes while the provision of venues for the technical and plenary sessions addressed our logistic needs. We are also grateful to the Dean, Students Affairs – Prof. L.T Ajibade who assisted the LOC in the review of conference papers and in the mobilization of the Students for the conference.

The keynote speakers at this international conference delivered thought provoking papers that served as the conference ice breaker and they have made us proud. We are grateful to Prof. Adeniyi Gbadegeshin, the immediate past Vice Chancellor of Ladoke Akintola University (LAUTECH), Oghomosho and Prof. Ahmad Doko Ibrahim of Ahmadu Bello University for accepting our invitation and for delivering the lead papers for the conference.

We recognize the contributions of Dr. Bolaji Sulieman, the Sub-dean of the Faculty of Environmental Sciences who coordinated conference planning and execution activities on behalf of the Faculty. The secretariat operations of the conference were adequately handled by the Faculty Officer –Mrs. Azeezat Ibrahim. The LOC is grateful to her and other administrative staff of the Faculty for their immense contributions.

At the preparatory stage of this conference, the Faculty reached out to individuals and corporate organizations for financial support. In response, many donated substantial amounts of money which assisted a lot in procuring materials for the conference. The Faculty appreciates the well-meaning individuals and management of all corporate organizations for this kind gesture.

This conference could not have been a success without the dedication and untiring efforts of the LOC and other sub-committees that handled the conference planning and implementation. On behalf of the LOC, I sincerely thank **all those** who served in the LOC and all other sub-committees. I am specifically grateful to the Chairmen of all sub-committees in person of Dr. N.A Bello (Technical Sub- committee); Dr. Maimuna O. Abdulraheem (Logistic Sub-committee); Dr. A.I Bako (Publicity and Linkage Committee) and Mr. Ahmadu Hussein (Student Competition Sub-committee).

Worthy of singular mention and appreciation is a member of the LOC - Mr Rasheed Abdulkadir Shehu who was a wonderful and reliable partner in progress. His calm and confident deportment to all knotty issues coming from any of the sub-committees translated in several ways to the accomplishment of this conference

The list of contributors to the success of this conference is almost endless. We are grateful to all Heads of Department and academic staff in the Faculty of Environmental Sciences who assisted in one way or the other to make the conference a resounding success. We hold all our paper reviewers, plenary chairpersons and rapporteurs in high esteem and thank them for their selfless services. Finally, I thank all the non-teaching staff and students of the Faculty for their roles. May God reward you all for your contributions.

**Dr. Maimuna O. Abdulraheem**

**Chairperson, Local Organizing Committee**

## **CONFERENCE CENTRAL ORGANISING COMMITTEE**

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Dr. Maimuna O. Abdulraheem - Department of Urban & Regional Planning – Conference Chair  
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Prof. A.D. Ibrahim - Department of Quantity Surveying, Ahmadu Bello University, Zaria - Nigeria  
Prof. A.A. Adedeji - Department of Civil Engineering, University of Ilorin, Ilorin - Nigeria  
Dr. R.G. Jimoh - Ag. Dean of Faculty of Communication & Information Studies, University of Ilorin, Ilorin - Nigeria

## Paper Review Panel

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Prof. A.A. Adedeji – Department of Civil Engineering, University of Ilorin.  
Prof. L.T. Ajibade – Department of Geography, University of Ilorin  
Prof. V. A. Bello - Department of Estate Management, Federal University of Technology, Akure- Nigeria  
Prof. N.B. Tanimowo – Department of Urban and Regional Planning, LAUTECH  
Prof. A.D. Ibrahim- Department of Quantity Surveying, Ahmadu Bello University, Zaria  
Dr. Ganiyu Amuda-Yusuf - Department of Quantity Surveying, University of Ilorin, Ilorin -Nigeria  
Dr. I. O. Orire - Department of Geography, University of Ilorin, Ilorin - Nigeria  
Dr. N. A. Bello - Department of Estate Management, University of Ilorin, Ilorin - Nigeria  
Dr. Bolaji Sulaiman - Department of Quantity Surveying, University of Ilorin, Ilorin - Nigeria  
Dr. A. I. Bako - Department of Urban & Regional Planning, University of Ilorin, Ilorin - Nigeria  
Dr. A. B Ola - Department of Urban & Regional Planning, University of Ilorin, Ilorin - Nigeria  
Dr. K. B. Bolayemi - Department of Estate Management, Federal Polytechnic, Ilaro - Nigeria  
Dr. Ranti. T. Adebisi - Department of Quantity Surveying, University of Ilorin, Ilorin - Nigeria  
Dr. O. O. Olanrele - Department of Estate Management, University of Malaya, Malaysia - Nigeria  
Dr. I. E. Wallace - School of Architecture, Victoria University of Wellington, New Zealand  
Dr. Ayo Babalola - Department of Surveying & Geo-Informatics, University of Ilorin, Ilorin - Nigeria

## Peer Review Process

The papers submitted to this conference were subjected to a rigorous peer review process which involved an initial review of abstract. A total of 150 abstracts were reviewed and 72 accepted. Afterwards, the authors of accepted abstracts were provided with the reviewers' comments and were advised to proceed to full paper submission, incorporating all suggested amendments in the reviewed abstracts.

Blind reviews of full manuscripts by minimum of two reviewers were carried out on the submitted manuscripts. A total of 72 full papers were received and the reviewer's comments were then sent to the authors of accepted papers with the request that they should address all of the issues raised by the reviewers. Tracked changes made by reviewers on authors' original papers were also sent to authors to help with revising their papers. A compliance check of authors returned corrected papers was further done to ensure that all the reviewer's comments were followed.

During the review process, members of the paper review panel, editors and conference organisers were not involved with the review of any paper they authored or co-authored.

A total of 52 papers of all authors who have demonstrated sufficient evidence that all reviewers' comments had been addressed were accepted into the conference proceedings.

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## **CONFERENCE PROGRAMME**

### **DAY 1**

**MONDAY 29<sup>TH</sup> APRIL, 2019**

#### **PROGRAMME FOR THE OPENING SESSION**

|                     |                                                                                                                                           |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 8:00 am - 9:30 am   | <b>Registration</b><br><i>Venue: University Main Auditorium</i>                                                                           |
| 9:30 am - 9:40 am   | <b>National Anthem &amp; Unilorin Anthem / Introduction of Guest</b>                                                                      |
| 9:40 am - 9:50 am   | <b>Opening Remarks by the Conference Chair.</b><br><i>Dr. Maimuna O. Abdulraheem, Chairperson, Organizing Committee</i>                   |
| 9:50 am - 10:00 am  | <b>Welcome Address by the Host.</b><br><i>Dr. Ganiyu Amuda - Yusuf-Ag. Dean Faculty of Environmental Sciences</i>                         |
| 10:00 am - 10:20 am | <b>Vice Chancellors Address.</b><br><i>Prof. Sulyman Age Abdulkareem - Vice Chancellor University of Ilorin</i>                           |
| 10:20 am - 11:00 am | <b>Keynote Address 1.</b><br><i>Prof. Adeniyi Gbadegesin - Professor of Geography, Immediate Past Vice-Chancellor, LAUTECH, Ogbomoso.</i> |
| 11:00 am - 11:40 am | <b>Keynote Address 2</b><br><i>Prof. Ahmad Doko Ibrahim - Professor of Quantity Surveying, Ahmadu Bello University, Zaria.</i>            |
| 11:40 am - 12:00 pm | <b>Questions/Contributions/Responses</b>                                                                                                  |
| 12:00 pm - 12:10 pm | <b>Address by the Special Guest of Honour</b><br><i>Arc. M. J Faworaja. (MICI Arb, MFIMS, FNIA, PPNIA) MD/CEO ARCHCON NIG. LTD</i>        |
| 12:10 pm - 12:30 pm | <b>Launching of the Maiden Edition of Faculty of Environmental Sciences Journal - (Journal of Environmental Spectrum)</b>                 |
| 12:30 pm - 12:40 pm | <b>Goodwill Messages</b>                                                                                                                  |
| 12:40 pm - 12:50 pm | <b>Closing Remarks</b><br><i>Prof. N. B Tanimooowo - Pioneer Dean, Faculty of Environmental Sciences</i>                                  |
| 12:50 pm - 1:00 pm  | <b>Vote of Thanks</b><br><i>Dr. N.A Bello - Conference Secretary</i>                                                                      |

### **DAY 1**

**MONDAY 29<sup>TH</sup> APRIL, 2019**

#### **PROGRAMME FOR THE TECHNICAL SESSIONS**

|                                                                                |                                             |
|--------------------------------------------------------------------------------|---------------------------------------------|
| 1:00 pm - 1:30 pm                                                              | <b>Tea Break/Snacks/Small Chops</b>         |
| <b><u>PRE-CONFERENCE WORKSHOP</u></b> <i>Venue: University Main Auditorium</i> |                                             |
| <b>RESEARCH CLINIC</b>                                                         | <b>Chairperson: Prof. Titilayo A. Alabi</b> |
| 1:30 pm - 2:10 pm                                                              | <b>Research Lecture:</b>                    |

*Prof. Ahmad Doko Ibrahim - Professor of Quantity Surveying,  
Ahmadu Bello University Zaria.*

2:10 pm - 2:30 pm

**Questions & Answers**

2:30 pm - 3:00 pm

**Lunch Break**

### **FIRST PARALLEL SESSION**

**FIRST PARALLEL SESSION DAY 1 - MONDAY 29<sup>TH</sup> APRIL, 2019**

**VENUE: FACULTY OF COMMUNICATION AND INFORMATION SCIENCES [CIS]**

#### **GROUP 1**

#### **GROUP 2**

##### **INFORMATION TECHNOLOGY ADOPTION IN CONSTRUCTION**

##### **REMOTE SENSING & DIGITAL INFORMATION SYSTEMS**

CHAIRPERSON: Dr. Saudat S. Baki

CHAIRMAN: Prof. J.F Olorunfemi

RAPPORTEUR: Dr. N. A Musa

RAPPORTEUR: Dr. Ayo Babalola

##### **Paper 1:**

##### **Paper 1:**

Bim Adoption Challenges in Malaysia:  
Expert Opinion.

Assessment of Users' Satisfaction on Manual &  
Digital Land Information System in Kwara State,  
Nigeria

*Badiru, Y. Y.; R.B Tukur.; and Abdulazeez,  
A.D*

*Adekoya, A. A., and Bello. M. O.*

##### **Paper 2:**

##### **Paper 2:**

Sustainable Architectural Practices in  
Nigeria: Benefits of Adopting Building  
Information Modeling

Spatio-Temporal Analysis of Bida Housing  
Market Using Geographic Information System

*Elimisiemon, Monday Chris*

*Mohammed, J. K. & Sulyman, A. O.*

##### **Paper 3:**

##### **Paper 3:**

Factors Affecting Human Resource  
Management in Small Construction Firms  
in Lagos Metropolis, Nigeria

Establishment of Deformation & Subsidence  
Monitoring Baseline in the Coastal Environment:  
A Case Study of University of Lagos

*Oluwaseyi Modupe Ajayi; Oluwasegun  
Emmanuel Akinsiku & Tajudeen Olufemi  
Salami*

*Alademomi Alfred Sunday, Mayaki Anthony  
Omeiza, Daramola Olagoke Emmanuel & Salami  
Tosin Julius*

##### **Paper 4:**

##### **Paper 4:**

Influence of Web-based Project Management  
System on Project Delivery

Design and Implementation of Sustainable Built  
Environment: The Role of Surveying & Geo-  
Informatics towards Effective Collaboration with  
Other Professionals

*A.S. Rasheed & R. T Adebiyi*

3:00 pm - 5:00 pm

**Paper 5:**

Assessment of Readiness of Nigerian Construction Firms on Adoption of Lean Construction Principles

*M.L Aisha & A.M. kasimu*

**Paper 5:**

GIS as a Tool for Sustainable Development in Public Secondary School Mapping

*Ipadeola A. O., Abdulyekeen A.O., Olatunde G.*

**Paper 6:**

Perceptions of Career Development among Women in Nigeria Construction Industry

*Adebiyi Ranti Taibat, Amuda-Yusuf Ganiyu, Rasheed Abdulkadir Shehu, Idris Soliu & Ola-Ade Esther Oluwafolakemi*

**Paper 6:**

A Review of Intelligent Transportation System: Adaptive Management

*Busayo Adebiyi, Risikat Folashade Adebiyi, Ahmed Tijani Salawudeen & Abubakar Umar*

**Paper 7:**

Effect of implementation of E-Procurement on Corrupt Practices in Nigerian Construction Industry

*Odulana, A. O. & Oyewobi, L. O.*

5:00 pm -

**CLOSING**

5:10 pm

**DAY 2**

**TUESDAY 30<sup>TH</sup> APRIL, 2019**

**SECOND PARALLEL SESSION**

**SECOND PARALLEL SESSION DAY 2 - TUESDAY 29<sup>TH</sup> APRIL, 2019**

**VENUE: FACULTY OF COMMUNICATION AND INFORMATION SCIENCES [CIS]**

**GROUP 1**

**GROUP 2**

**ARCHITECTURE & HOUSING  
DEVELOPMENT MANAGEMENT**

**CONSTRUCTION ECONOMICS & COST  
MANAGEMENT**

CHAIRPERSON: Dr. Nasmat T. Surajudeen-Bakinde

CHAIRMAN: Prof. A.M Junaid

RAPPORTEUR: Dr. A.I. Bako

RAPPORTEUR: Dr. Ranti T. Adebiyi

**Paper 1:**

**Paper 1:**

**8:30 am - 10:30 am**

Assessment of Crowd Control Strategies in the Design of National Stadia at Abuja and Uyo, Nigeria

*Naimu M. S & Abdulrahman M. E*

**Paper 2:**

Retrofitting Prospects for Daylight Enhancement in 'Dark' Corridors of an Institutional Prototype Building

*O. M. Idowu, A. A. Umar, S. Humphrey & A. U. Attah*

**Paper 3:**

Assessment of Landscape Design Elements Application for Crowd Movement Optimization in Catholic Churches in Benue State, Nigeria

*David Lubem Angitso & Chukwudum J. Eze*

**Paper 4:**

The Challenges of Placemaking of Leisure & Recreation Parks Development in Nigeria

*Abdulwahab Engworo Etudaiye, Abdullahi Sadauki, Yusuf Saliu & Ibrahim Yusuf Baba*

**Paper 5:**

Critical Assessment of Fire Safety Measures in Shopping Malls, Abuja, Nigeria

*Audu Francis Eleojo & M.E Abdulrahman*

**Paper 6:**

Hardened Property of Blended Cement Mortar for Sustainable Housing Construction

*Oyejobi, D. O., Adelabu, J. K., & Abdullahi, K. O.*

**Paper 7:**

Influence of Risk Factors on Redevelopment Projects: A Case Study of Yankari Resort & Safari Project, Bauchi State

*Aminu Muhammad Bashir*

**Paper 2:**

Risk Management Strategy in Public Private Partnership on Housing Development. A Case of Niger State

*Yatsu U.M and Kasimu M.A*

**Paper 3:**

Risk Factors Affecting Cost and Time Performance of Civil Engineering Projects in Kwara State

*Idris Soliu, Awodele., O. A & Amuda-Yusuf., G*

**Paper 4:**

Appraisal of the Causes of Ineffectiveness of Skilled Tradesmen in Building Construction Industry in Lagos State

*Olanrewaju, Rauf A., Adebisi, Ranti T. & Fasasi, Abdulwaheed*

**Paper 5:**

Drivers and Barriers to the Implementation of Green Building Development

*Onososen, Adetayo Olugbenga & Osanyin Oladipupo*

**Paper 6:**

Appraisal of Causes and Effects of Delayed Payment on Building Construction Projects Delivery in Niger State

*M. N. Amina; J. E. Idiake & A. M. Kasimu*

**Paper 7:**

Assessment of Aspect Ratio & Configuration Effects in Corporate Office Buildings Courtyard, in Abuja, Nigeria

*Ofiedane J.M & Eze J. C*

Evaluating Methods of Training of Mason for Productivity Improvement in Nigeria Construction Industry

*Suleiman, Ayinde Elelu & John, Ebohimen Idiake*

### **Paper 8:**

Architectural Design Considerations to Enhance Security in Mixed-Use Building, Lagos, Nigeria

*Ogunbayo, R. A & Akande, O. K*

10:30 am -

### **TEA BREAK**

11:00 am

## **THIRD PARALLEL SESSION**

**THIRD PARALLEL SESSION DAY 2 - TUESDAY 30<sup>TH</sup> APRIL, 2019**

**VENUE: FACULTY OF COMMUNICATION AND INFORMATION SCIENCES [CIS]**

### **GROUP 1**

#### **URBAN/ENVIRONMENTAL MANAGEMENT & PLANNING**

CHAIRMAN: Prof. A.M Junaid

RAPPORTEUR: Dr. A.B Ola

#### **Paper 1:**

Multidimensional Approach to Flood Vulnerability Assessment in Coastal Communities of Suleja and Tafa LGA, Niger State

*Abdulhakeem Salau Bello and Muhammad Ahmed Emigilati*

#### **Paper 2:**

An Assessment of Streetscape Infrastructure in Ilorin Metropolis, Nigeria

*Abdulraheem M. O., Suleiman A. R. Alao R. O. Alimi R. K. Alade A. K & Garba I.O.*

### **GROUP 2**

#### **REAL ESTATE DEVELOPMENT AND PROPERTY MANAGEMENT**

CHAIRMAN: Prof. B.T Aluko

RAPPORTEUR: Dr. Ranti T. Adebisi

#### **Paper 1:**

The Impact of Emotional Intelligence on the Performance of Consultant Estate Surveyors and Valuers in Nigeria

*Akinwamide, David Oluwatofunmi*

#### **Paper 2:**

Emerging Barriers to Efficient Urban Land Acquisition Process for Real Estate and Facilities Development in Nigeria

*Kazeem .B. Akinbola; Taofik .I. Salau,; Nurudeen .A. Bello.*

11:00 am - 1:00 pm

**Paper 3:**

Assessment of Spatial Changes in Coastal Ecosystem at Amuwo-Odofin, Lagos Nigeria

*Alfred Sunday Alademomi, Tosin Julius Salami, Olagoke Emmanuel Daramola, Elias Adediran, & Joseph Olayemi Odumosu*

**Paper 4:**

The Practice and Challenges of Biomedical Waste Management: A Study of Selected Medical Facilities in Ile-Ife, Osun State

*Ola, A. B.; Bako, A. I.; Abdulraheem, M. O.; Raheem, W. M.; Raheem, W. A. & Adewale, Y. Y.*

**Paper 5:**

Understanding Vulnerability and Resilience of Ilorin Central Area, Ilorin, Kwara State

*A.I. Bako, O. T. B. Aduloju, A. R. Suleiman, & F. O. Lawal*

**Paper 6:**

Effect of Informal Activities on Urban Road Network Infrastructure in Minna, Niger State

*Adeogun, A. S., Idowu, O. O., Olabisi S.A, & Iroh E.*

**Paper 7:**

Gully Erosion: Vulnerability and Impact on the Resident of Agulu-Nanka

*Nwokocha Oluchi and Musa Dalil*

**Paper 8:****Paper 3:**

Challenges of Accessing Affordable Housing by Low-Income Civil Servants in Abuja, Nigeria

*Olayinka Ezekiel Ajayi & Oyekunle Luqman Oyewobi*

**Paper 4:**

Collaborative Working Relationship among Nigerian Built Environment Professionals: Factors and Benefits

*Nurudeen Akinsola Bello, Kazeem Bolayemi Akinbola, Rasheed Olamide Alao, Sulaiman Adetoye Adepoju & Sulaiman Adesoji Olabisi*

**Paper 5:**

Conventional Approaches and Mechanism to Housing Market Analysis

*Mohammed, J. K. & Sulyman, A. O.*

**Paper 6:**

Challenges and Opportunities of Resolving Land Use Conflicts through Mediation in Nigeria

*Uwaezuoke, Ngozi Ifeanyi & Owolabi, Kayode Michael*

**Paper 7:**

User Satisfaction of Social Housing in Kaduna Metropolis

*Julius Andrew Baji, Jonah Binga, Deborah Babarinsa, Mercy Richard Auta, Yakubu Ahmed Ubangari, & David Ayock Ishaya*

**Paper 8:**

Evaluation of Petrol Filling Stations  
Against Established Standards in  
Ilorin Metropolis.

*Tanimowo, N. B., Raheem, W. M.,  
Owolabi, O. Q., Raheem, M. O.,  
Salawu, G. O. and Onundi  
Lawal, F. O.*

Effect of Public Budgeting on Neighbourhood  
Quality and Rental Values in Ilorin

*W.A Durosinmi, M.T.A Ajayi, M.B Wahab, W.O  
Shittu & A.O Hassan.*

**Paper 9:**

Child Poverty Mapping: Towards  
Effective Child Poverty Reduction

*Akande Sheerifdeen Olaide,  
Mohammed Ndana & Aremu Reuben*

**Paper 9:**

Evaluation of the Contribution of Real Estate-  
based Revenue to IGR of Kwara State.

*Agava, Halim Yusuf; Adedotun, Ife Adeshola &  
Gombwer, Nenrot Wuyokwe*

1:00 pm - 2:00 pm

**STUDENT COMPETITION PRESENTATION**

2:00 pm - 3:00 pm

**LUNCH**

3:00 pm - 4:00 pm

**CONFERENCE COMMUNIQUE**

**CERTIFICATES & CLOSING**

**DEPARTURE**