



COVENANT UNIVERSITY, OTA, NIGERIA

**2nd International Conference on Energy and Sustainable
Environment**

ICESE 2020

Conference Programme

ICESE 2020 General Chart

| Day | 8-9am | 9-10am | 10-11am | 11-12pm | 12-1pm | 1-2pm | 2-3pm |
|-------|--------------|--------|---|---------|--|---|-------|
| 3-Jul | REGISTRATION | | | | OPENING CEREMONY/KEYNOTE PRESENTATIONS | | |
| -Jul | | | TECHNICAL SESSION: ENVIRONMENT AND CLIMATE CHANGE | | BREAK | TECHNICAL SESSION: ENVIRONMENT AND CLIMATE CHANGE | |
| | | | TECHNICAL SESSION: ENERGY MANAGEMENT | | | TECHNICAL SESSION: BUILT ENVIRONMENT | |
| | | | TECHNICAL SESSION: BUILT ENVIRONMENT | | | | |
| -Jul | | | TECHNICAL SESSION: ENVIRONMENT AND CLIMATE CHANGE | | BREAK | TECHNICAL SESSION: ENVIRONMENT AND CLIMATE CHANGE | |
| | | | TECHNICAL SESSION: ENERGY | | | TECHNICAL SESSION: BUILT ENVIRONMENT | |
| | | | TECHNICAL SESSION: ENERGY MANAGEMENT | | | CLOSING CEREMONY | |
| | | | TECHNICAL SESSION: BUILT ENVIRONMENT | | | | |

ICESE 2020 PROGRAMME OF EVENTS

TUESDAY, 28TH JULY, 2020

OPENING CEREMONY

PLATFORM: ZOOM Link

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|-----------------------------------|----------|
| Opening Ceremony | 12:00 PM |
| Opening Prayer | 12:00 PM |
| Introduction of Dignitaries | 12:05 PM |
| Conference Chair Remarks | 12:25 PM |
| Vice - Chancellor Remarks | 12:50 PM |
| Citation of the Keynote Speaker 1 | 13:00 PM |
| Keynote Address 1 | 13:35 PM |
| Citation of the Keynote Speaker 2 | 13:40 PM |
| Keynote Address 2 | 14:20 PM |
| Announcement | 14:30 PM |
| Vote of Thanks | 14:35 PM |
| Closing prayer | 14:40 PM |

THURSDAY, 30TH JULY, 2020

CLOSING CEREMONY

PLATFORM: ZOOM Link

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| Opening Prayer | 13:00 PM |
| Introduction of Dignitaries | 13:03 PM |
| Conference Chair Closing Remarks | 13:13 PM |
| Vice - Chancellor Closing Remarks | 13:38 PM |
| Announcement | 13:58 PM |
| Vote of Thanks | 14:02 PM |
| Closing prayer | 14:05 PM |

**International Conference on Energy and Sustainable Environment (ICESE)
2020**

TECHNICAL SESSION: PRESENTATION SCHEDULE

| 29TH JULY 2020-MORNING SESSION | | |
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| ENVIRONMENT AND CLIMATE CHANGE 9:00AM-12:00PM | | |
| Session Chair: Dr M. Omeje | | |
| Co-Session Chair: Dr T.J. Abodunrin | | |
| 1 | Empirical Assessment of Ammonia and Urea Concentrations in Wastewater from a Pharmaceutical Plant: A Case Study | Sanni <i>et al.</i> |
| 2 | Assessing the Viability of Rainwater Harvesting System for Sustainable Manufacturing in Water Stressed Regions | Ogwu, <i>et al.</i> |
| 3 | Television Media and Maternal Health Development: Awareness and Impact Assessment on Women in Semi Urban Nigeria | Chinedu-Asogwa <i>et al.</i> |
| 4 | Temperature and Short- wave Irradiation Trends in Ikogosi Climatic Change Pattern | Abodunrin & Emeterere |
| 5 | COVID-19 infection forecast using artificial neural network: Seeking reliable solution | Emeterere <i>et al.</i> |
| 6 | Yearning to farm -Youth, Economic Shocks and Food Security in Nigeria | Osabohien <i>et al.</i> |
| 7 | Carbon emission and population growth: Evidence from the magna cum laude oil producing African countries | Daramola <i>et al.</i> |
| 8 | Exploring the Leadership Approach in Response to COVID-19 among Faith-Based Organisations in Nigeria: A Conceptual Review | Dada <i>et al.</i> |
| 9 | Accelerating progress on the sustainable development goals: Assessing secondary school students' knowledge of climate change actions | Tunji-Olayeni <i>et al.</i> |
| 10 | Natural Radionuclide and Radiological Impact Assessment of Teak Plantation, University of Ilorin, Kwara State | Orosun <i>et al.</i> |
| ENERGY 9:00AM-11:00AM | | |
| Session Chair: Engr (Dr.) H. Orovwode | | |
| Co-Session Chair: Dr S.E. Sanni | | |
| 1 | Improvement on the Production Energy of Shaleoil Using Waste Plastics | Olugbenga <i>et al.</i> |
| 2 | Production of Fuels from Nigeria's Untapped 'Waste Wealth' Using Pyrolysis | Adeola <i>et al.</i> |
| 3 | Determinants of Renewable Energy Consumption in Nigeria: A Toda Yamamoto Approach | Gershon & Emekalam |
| 4 | Design and Fabrication of an Ablative Pyrolyzer for Production of Bio- lubricants and Chemicals in Oil Well Drilling Application | Adegoke <i>et al.</i> |
| 5 | Plant Design of Waste Soybean Oil Biodiesel Production using KOH Catalyst | Ayoola <i>et al.</i> |

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| 6 | The role of solvent additive in metal nano-composite doped thin film organic solar cell | Kesinro <i>et al.</i> |
| 7 | Techno-Economic Analysis of Standalone Solar Power System for Small and Medium Scale Enterprises (SMES) in Nigeria | Waliu <i>et al.</i> |

ENERGY MANAGEMENT 9:00AM-11:00AM

Session Chair: Prof (Mrs) R. Uwuigbe

Co-Session Chair: Dr O. Gershon

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| 1 | Carbon Nanotubes as a Multifunctional additive and its Impact in Oil Based Mud System drilling Hydraulics | Okoro <i>et al.</i> |
| 2 | Physico-Chemical Properties, Thermal degradation, and Spectroscopic studies of Hybridized Waste Palm Oil | Awogbemi <i>et al.</i> |
| 3 | Developing a Multi-factor Authentication-based Cardless Electronic Payment System | Ayo <i>et al.</i> |
| 4 | Renewable Energy Consumption Shocks on CO2 Emissions and Economic Growth of Nigeria | Ezenwa <i>et al.</i> |
| 5 | Role of Biomaterials in Automation | Fayomi <i>et al.</i> |
| 6 | A Review of Energy Consumption in Foundry Industry | Fayomi <i>et al.</i> |
| 7 | Challenges of Commercializing Research Output in Nigeria toward Meeting Sustainable Development Goal | Fayomi <i>et al.</i> |
| 8 | Evaluation analysis of a developed solar refrigerator using conventional refrigerant for rural and medical applications | Banjo <i>et al.</i> |
| 9 | Transition to Green Energy and Sustainable Development in Nigeria: A Prospective and Evaluative Analysis | Nwozor <i>et al.</i> |
| 10 | Effect of Fin spacing on the Performance Evaluation of a Refrigeration System using LPG as Refrigerant | Banjo <i>et al.</i> |

BUILT ENVIRONMENT 9:00AM-12:00PM

Session Chair: Dr A.O. Ogunde

Co Session Chair: Dr P.O. Aderonmu

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| 1 | Dimensions of Impacts of Rapid Population Growth on Public Housing Developments and the Influence on City Resilience | Equere <i>et al.</i> |
| 2 | The Role of Artificial Lighting in Architectural Design: A Literature Review | Sholanke <i>et al.</i> |
| 3 | Designing a Secured Mobile Money Platform for Rural and Urban Dwellers in Nigeria | Ayo <i>et al.</i> |
| 4 | A Search for Anchor Tenancy in Shopping Malls In Lagos Metropolis | Iroham <i>et al.</i> |
| 5 | Resilient Design Strategy: Engaging Amphibious Structures to Combat Flood in the Development of an Internally Displaced Persons Settlement Scheme in Nigeria | Sholanke <i>et al.</i> |
| 6 | Homelessness Factors and Psychological Wellbeing Concerns in Nigerian Cities | Ekhaese <i>et al.</i> |
| 7 | Promoting Green Urbanism in Nigerian Purlieus as Therapy | Ekhaese <i>et al.</i> |

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| | for Psychological Wellbeing/Health | |
| 8 | Socio-Cultural Resilience to Domestic Space Change, the Benin Traditional City Experience, Nigeria | Ekhaese <i>et al.</i> |
| 29TH JULY 2020-AFTERNOON SESSION | | |
| ENVIRONMENT AND CLIMATE CHANGE 1:00PM-4:00PM | | |
| Session Chair: Dr M. Omeje | | |
| Co-Session Chair: Dr T.J. Abodunrin | | |
| 1 | OVERVIEW OF NANOTECHNOLOGY APPLICATION IN MITIGATING COVID-19 | Afolalu <i>et al.</i> |
| 2 | Long Term Hydrochemical Analysis and Quality Assessment of Five Dams in Lesotho, Southern Africa | Olaleye <i>et al.</i> |
| 3 | Water Poverty and Development Imperatives: A Defence of Ethics for Sustainable Water Resource use and Management in Africa | Adekeye <i>et al.</i> |
| 4 | Investigating infection pattern of viral bioaerosols: Case study of COVID-19 in Lagos, Nigeria | Emetere <i>et al.</i> |
| 5 | Design and Construction of Patient Remote Monitoring System | Usikalu <i>et al.</i> |
| 6 | Mathematical experimentation of borehole contamination sources: Influence of soil-water diffusivity on contamination diffusion | Emetere <i>et al.</i> |
| 7 | Impact of Atmospheric Parameters and Noise Temperature on Digital Terrestrial Television Signal Strength over Abuja, North-Central, Nigeria | Ojo <i>et al.</i> |
| 8 | Prediction of Attenuation using Visibility variations and other Meteorological Parameters in George, South West Cape Town, South Africa | Aborisade <i>et al.</i> |
| 9 | Borehole Contamination and Diffusion Patterns At Specific Hydrogeological Setting | Emetere <i>et al.</i> |
| 10 | Mathematical Experimentation on Groundwater Contamination and Diffusion in an Unconfined Aquifer | Emetere <i>et al.</i> |
| BUILT ENVIRONMENT 1:00PM-4:00PM | | |
| Session Chair: Dr A.O. Ogunde | | |
| Co Session Chair: Dr P.O. Aderonmu | | |
| 1 | Impact of Classroom Environments' on the Academic Performance of Architecture Students | Adewale <i>et al.</i> |
| 2 | Understanding Visual Quality Assessment: A Case Study of Covenant University Senate Building Façade | Obaleye <i>et al.</i> |
| 3 | Youth Employment Creation as an Inclusive Solution for Sustainable Development: Lessons from the 'Double You Digital Skills Initiative' in Nigeria | Tunji-Olayeni <i>et al.</i> |
| 4 | Imprints of Security Challenges on Vernacular Architecture of | Okeke <i>et al.</i> |

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| | North-Eastern Nigeria | |
| 5 | Impact of Television Health Programmes: Women Resident at the Bells Community, Ota in Focus | Olowolade <i>et al.</i> |
| 6 | Energy Efficiency Design Strategies in Office Buildings: A Literature Review | Erebor <i>et al.</i> |
| 7 | Innovation in Academic Workspace Design: The Implication for Sustainable Effectiveness | Adenipekun <i>et al.</i> |
| 8 | Pervious Pavements for Storm Water Control | Busari <i>et al.</i> |

30TH JULY 2020-MORNING SESSION

ENVIRONMENT AND CLIMATE CHANGE 9:00AM-12:00PM

Session Chair: Dr A.A. Akinsiku

Co-Session Chair: Dr S.A. Akinwumi

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| 1 | Investigating the significance of air pollution in corroded buildings: Case study of Basse-Gambia | Emetere <i>et al.</i> |
| 2 | Assessment of Quality of Drinking Water from Ogun State, Nigeria | Usikalu <i>et al.</i> |
| 3 | Short Review on the Atmospheric Bioaerosols | Emetere <i>et al.</i> |
| 4 | Eco-mobility Approach for a Sustainable Neighbourhood Road Infrastructure within a Mixed-use Community: The Searchlight on Festac Town, Amuwo Odofin, Lagos | Adesina <i>et al.</i> |
| 5 | Exploring Pressure-Temperature Trends toward Climatic change in Ikogosi | Abodunrin & Emetere |
| 6 | Mathematical experimentation on the influence of surface water on groundwater in an unconfined aquifer | Emetere <i>et al.</i> |
| 7 | Multidecadal trends in Ikogosi Temperature and Rainfall to Climate change | Abodunrin & Emetere |
| 8 | Microbial Enhanced Oil Recovery using Bio-Surfactant formulated from Subsurface Sandstone Reservoir Hyperthermophiles | Okoro <i>et al.</i> |
| 9 | A Review of Analytical Methods Used in measure Quantification | Fred-Ahmadu1 <i>et al.</i> |
| 10 | GENDER –BASED EMPLOYMENT IN AGRICULTURE AND AGRICULTURAL PRODUCTIVITY IN NIGERIA | Folarin <i>et al.</i> |

ENERGY 9:00AM-11:00AM

Session Chair: Engr (Dr.) H. Orovwode

Co-Session Chair: Dr S.E. Sanni

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| 1 | Pillars of Effective and Efficient Energy Systems in Nigeria | Fayomi <i>et al.</i> |
| 2 | Design and Fabrication of Cylindrical Ceramic Crucible as Insulator for Energy Storage Systems | Ndubuisi <i>et al.</i> |
| 3 | The Effect of Dye Extract Purification on The Performance of Dye Sensitized Solar Cells | Boyo <i>et al.</i> |
| 4 | Progress on organic solar cells: A short review | Kesinro <i>et al.</i> |

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| 5 | Biofuel: A Sustainable Renewable Source of Energy-A Review | Afolalu <i>et al.</i> |
| 6 | Prospects of Biofuel Production in Nigeria: A Short Review | Emetere <i>et al.</i> |

ENERGY MANAGEMENT 9:00AM-11:00AM

Session Chair: Prof (Mrs) R. Uwuigbe

Co-Session Chair: Dr O. Gershon

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| 1 | Information Communication Technology Access and use towards Energy Consumption in Selected Sub Saharan Africa | Ihayere <i>et al.</i> |
| 2 | Misery and Economic Growth Nexus in Nigeria: Implications for Energy Management | Ubah <i>et al.</i> |
| 3 | Liquid Liabilities and Growth Finance Nexus: Implications for Nigeria's Energy Sector | Bello ¹ <i>et al.</i> |
| 4 | Optimization of the mixing ratio for Production of Particleboard from Groundnut Shell and Rice Husk | Olawale <i>et al.</i> |
| 5 | Physicochemical and Surface Properties of Nanoparticles for Engineering Applications - A Review | Afolalu <i>et al.</i> |
| 6 | Users' Perception of the Impact of Prepaid Metering on Their Energy Consumption Behaviour: A Case Study of Victoria Garden City Estate, Lekki, Lagos State | Opoko & Asinobi |
| 7 | Energy situation in Nigeria and the way out through bioresources | Emetere <i>et al.</i> |
| 8 | Gender Diversity, Foreign Directors and Environmental, Social and Governance (ESG) Disclosures of Listed Firms in Nigeria | Uwuigbe <i>et al.</i> |
| 9 | The Effects of Board Ethnicity and Qualification on Environmental, Social and Governance (ESG) Disclosures of Listed Firms in Nigeria | Uwuigbe <i>et al.</i> |

BUILT ENVIRONMENT 9:00AM-12:00PM

Session Chair: Dr C.O. Iroham

Co-Session Chair: Dr I.O. Omuh

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| 1 | ASSESSMENT OF RESIDENTIAL SATISFACTION IN PUBLIC-PRIVATE PARTNERSHIPS (PPPs) HOUSING ESTATE IN LAGOS STATE, NIGERIA | Jegade <i>et al.</i> |
| 2 | EFFECTS OF ARCHITECTURAL STUDIO DESIGN ON STUDENTS' OVERALL ACADEMIC PERFORMANCE | Adewale <i>et al.</i> |
| 3 | Achieving Sustainability and Assessing Productivity through Biophilic Design in the Built Environment | Aduwo <i>et al.</i> |
| 4 | A Comparative Study of Rental Values of Residential Properties at Border Communities of Lagos and Ogun States, Nigeria | Oloke <i>et al.</i> |
| 5 | The Nexus of Climate Change, Urban Infrastructure and Sustainable Development in Developing Countries | Oloke <i>et al.</i> |
| 6 | How Real Sector Business Outlook Affect the Effectiveness of Monetary Policy on the Real Sector | Oladimeji <i>et al.</i> |
| 7 | Various Ways through which Co-Operative Societies | Baiyewu <i>et al.</i> |

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| | Contribute to Sustainable Housing Provision in Ogun State, Nigeria | |
| 8 | Sustainability Assessment of the Engineering Properties of Asphalt Concrete Incorporating Pulverized Snail Shell Ash as Partial Replacement for Filler | Modupe <i>et al.</i> |
| 30TH JULY 2020-AFTERNOON SESSION | | |
| ENVIRONMENT AND CLIMATE CHANGE 1:00PM-4:00PM | | |
| Session Chair: Dr A.A. Akinsiku | | |
| Co-Session Chair: Dr S.A. Akinwumi | | |
| 1 | Tropospheric attenuation on Satellite-aircraft propagation: A concise review | Arijaje <i>et al.</i> |
| 2 | Simulated sea-level rise under future climate scenarios for the Atlantic Barrier Lagoon coast of Nigeria using SimCLIM | Oloyede <i>et al.</i> |
| 3 | Climate change and coastal vulnerability assessment methods: A review | Oloyede <i>et al.</i> |
| 4 | Sustainability and Genetic Diversity of Under-exploited African Plants: A Collection Expedition in Nigeria - Facts, Challenges and Prospects | Omonhinmin <i>et al.</i> |
| 5 | DEGRADATION POTENTIALS OF TROPICAL SOIL BACTERIA ON DETERGENTS | Nwinyi <i>et al.</i> |
| 6 | SUGAR ALCOHOL- XYLITOL PRODUCTION USING SACCHAROMYCES SPECIES ISOLATED PALM WINE FOR SUSTAINABLE DEVELOPMENT IN FOOD INDUSTRY | Nwinyi <i>et al.</i> |
| 7 | Production of fruit wine using wild strain of Saccharomyces cerevisiae isolated from fresh palm wine for sustainable food security | Nwinyi <i>et al.</i> |
| 8 | USE OF Nicotiana tabacum, Jatropha curcas and Ficus exasperata FOR TREATMENT OF PUS-PRODUCING BACTERIA | Nwinyi <i>et al.</i> |
| 9 | Response Surface Methodology for Silicon Production from Bamboo Leaves | Olawale <i>et al.</i> |
| 10 | DISTRIBUTION AND DIAGNOSTIC RATIOS OF PAHs IN URBAN SOILS, YENAGOA CITY, BAYELSA STATE, NIGER DELTA REGION, NIGERIA | Leizou, Kaywood Elijah |
| BUILT ENVIRONMENT 1:00PM-4:00PM | | |
| Session Chair: Dr O. Alagbe | | |
| Co-Session Chair: Dr I.O. Omuh | | |
| 1 | Investigation of willingness of residents to adopt alternative burial methods in Abuja, Nigeria | Opoko & Adeboye |
| 2 | Sustainable Housing Delivery through Co-Operatives Societies in Ogun State, Nigeria: the Critical Success Factors | Baiyewu <i>et al.</i> |
| 3 | Life Cycle Assessment of Material Waste Generation from Building Construction Projects in Southwest Nigeria | Tongo <i>et al.</i> |
| 4 | URBANISATION AND SUSTAINABLE GROWTH OF URBAN KANO, NIGERIA | UNAH, Mathew Okopi |

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| 5 | Student Industrial Work Experience Scheme (SIWES): Is it Beneficial to Students? | Oluwunmi <i>et al.</i> |
| 6 | Exploring the Effects of Pozzolans on Different types of Portland Cements in Sustainable Cement-Based Applications | Joshua <i>et al.</i> |
| 7 | MAINTENANCE CULTURE OF RESIDENTS IN SOME SELECTED LOW COST HOUSING ESTATE IN LAGOS STATE | Amusan <i>et al.</i> |