

# **ASHAKWU**

## **JOURNAL OF CERAMICS**

© 2013 ASHAKWU Journal of Ceramics

**ISSN: 1597 - 3182**

All Rights Reserved.

No part of this Journal may be published in any form without written permission from the Publishers

**Design layout &Typeset:** Emmanuel Alemaka 0803 451 9267

**Cover Picture:** Courtesy of Shaaibu S. Industrial Design programme ATBU Bauchi

# EDITORIAL BOARD

## EDITOR-IN-CHIEF

Prof. A. M Ahuwan  
Dept. Industrial Design  
Ahmadu Bello University  
Zaria

Prof. Oyeoku  
Dept. Fine and Applied Arts  
University of Nigeria, Nsukka

Prof. Tonie Okpe  
Fine Arts Department  
Ahmadu Bello University  
Zaria

Prof. U. A. A Sullayman  
Dept. Industrial Design  
Ahmadu Bello University  
Zaria

Vershima Alkali  
Dept. Industrial Design  
Ahmadu Bello University  
Zaria

## SECRETARY

Dr. Adèle Garkida  
Dept. Industrial Design  
Ahmadu Bello University  
Zaria

# EDITORIAL CONSULTANTS

1. Prof. Benjo N. Iguillo  
Dept. of Fine and Applied Arts  
University of Nigeria  
Nsukka

2. Prof. Charles Okuofu  
Dept of Water Resources and  
Environmental Engineering  
Ahmadu Bello University, Zaria

3. Prof. Tukur Sa'ad  
Dept of Architecture  
Ahmadu Bello University, Zaria

4. Prof. J.F Iyun  
Dept of Chemistry  
Ahmadu Bello University  
Zaria

5. Prof. Raphael Ibagbami  
Dept. of Fine & Creative Arts  
Obafemi Awolowo University,  
Ife

# CONTRIBUTIONS

The Editor invites original scholarly contributions in all aspects of Ceramic Studies. Manuscripts should be of reasonable length of 15 to 20 pages including references and notes.

All manuscripts should be typed and double spaced on 8<sup>1</sup>/<sub>2</sub> x 11 (A4) paper with at least 2cm margins on either side and at the top and bottom of every page and submitted in triplicate. Notes, excerpts and references should also be double-spaced, and should appear at the end of the manuscript.

Manuscripts should conform to the APA format for authors, editors and copywriters. Manuscripts will be submitted to readers in the field; it is therefore recommended that the cover page having the title, the author's name and address be independent of the article, which should carry only the title.

Contributors will receive two copies of **ASHAKWU** in which their article appears. If, however, additional copies are required, these must be paid for.

All contributions should be sent to Prof. A.M Ahuwan, The Editor, **ASHAKWU Journal of Ceramics**, Department of Industrial Design, Ahmadu Bello University, Zaria, Nigeria. E-mail:cerannigeria@email.com Tel:+2348037019748, +2348034522439, Fax: +234069-550022

Illustrations are preferred in black and white prints; however, wherever colours are discussed in the article, sharp colour prints should accompany the text.

## EDITOR

## **EDITORIAL**

The 10<sup>th</sup> edition of Ashakwu: Journal of Ceramics comprises mainly of papers from the conference organized by the Ceramics Researchers Association of Nigeria (CeRAN). The theme of the conference was Ceramics and National Transformation and it was held at the University of Uyo, Akwa Ibom State in November 2012.

The papers are generally relevant to our National transformation agenda: 'Diversification of the Nation's Source of Revenue from Oil to Ceramics; A way out of the Country's Monolithic Economy'. Others include 'Current Challenges in Ceramics Research in Nigeria and the Way Forward for National Development', and 'Ceramics and Tourism Industry in Nigeria: A neglected gold mine'. The list is endless-exciting well researched papers by professional Ceramists.

It will interest our readers, especially those in Industrial Design the multiplying effect of the Departments of Industrial Design in Nigerian Universities. The concept of Industrial Design started in Ahmadu Bello University Zaria in 1978 with Professor Solomon Irien Wangboje as its first Head of Department. The present Department of Fine Arts and Design, University of Port Harcourt will soon be split into Department of Fine Arts and Department of Industrial Design to take off in 2015. This good news was reported to us by the current Head of Department Professor John Agberia who will oversee the take off of the two Departments. This development will bring to about seven Departments of Industrial design in Nigerian Universities. Our desire is that there will be a Department of Industrial Design in every Nigerian University. The challenge for us is to face up to the challenge of our National Transformation in Industrial Development.

Professor Abbas Magaji Ahuwan  
Editor in Chief

## **CONTENT**

	<b>PAGE</b>
Editorial Board.....	ii
Contributions.....	iii
Editorial .....	iv
Contents.....	v

## **ARTICLES**

<b>Odo J.U., Nwoye C.I., Ameh E.M., &amp; Nnamchi P.S.:</b> Production of Fireclay Insulating Bricks from a Blend of Clays and Rice Husks	<b>1</b>
<b>Jekada J.Z., Bello H.I., Obaje B.K. &amp; Obadahun J.:</b> Use of Millet-Stalk Ash as an Alternative source of Potassium Oxide in Glass Production	<b>11</b>
<b>Aliyu Z.S. &amp; Dauda M.:</b> Characterization of Tsakasimptah Dolomite and its Suitability for Glass making	<b>15</b>
<b>Adelabu O.S., Ologunwa T.P. &amp; Akinbogun T.L.:</b> Challenges of Glazed-Ceramic Production in Nigeria: From Materials to Method	<b>24</b>
<b>Adelabu O.S., Omole, F.K. &amp; Ologunwa T.P.:</b> Development and Assessment of a Locally Designed Fish Smoking Kiln using Insulating Refractory Materials	<b>37</b>
<b>Gabriel O.A. &amp; Ahong A.B.:</b> Proposing Appropriate Body Composition Towards Reducing the Excessive Leakage of Bade Pots in Yobe State	<b>47</b>
<b>Shaaibu S.:</b> Viability of Ancient Traditional Crafts in the Twenty First Century: A Study of Activities of Gidan Tukunya Pottery Centre	<b>51</b>
<b>Echeta C.:</b> Studio Ceramic Tiles: Locally Contrived Metal Clay Cutters as Instruments of Improvisation	<b>60</b>
<b>Etukudo J.J.:</b> Industrial Design: An Indispensable Approach in the Production of Modern Ceramics	<b>67</b>
<b>Okpu O.O.:</b> The Latent Function of Applied Arts: A Case Study of Ceramics and Textiles	<b>72</b>
<b>Gukas H.J. &amp; Mazila E.A.:</b> Towards a Better Quality Control of Ceramics Products for Nigerian Markets	<b>81</b>

<b>Ganiyu,S.O. &amp; Onyeagoro J.C.:</b> Ceramics and it's Potentials to Compliment Nigeria's Oil-Based Economy	<b>88</b>
<b>Akatakpo Essie Favour Ritisegbemi:</b> Diversification of the Nation's Source of Revenue from Oil to Ceramics: A Way out of the Country's Monolithic Economy	<b>94</b>
<b>Mordi K.E.:</b> Ceramics and the Tourism Industry in Nigeria: A Neglected Gold Mine	<b>101</b>
<b>Opoku E.V. &amp; Zauro T.D.M.:</b> Problems and New Realities facing Ceramic Education and Research in Nigeria	<b>109</b>
<b>Sale P., &amp; Ahuwan A.M.:</b> An Exploratory Analysis of the Ceramics Postgraduate Programme of Industrial Design, Ahmadu Bello University, Zaria (1997-2009)	<b>114</b>
<b>Mamza A.J.:</b> Current Challenges in Ceramics Research in Nigeria and the Way Forward for National Development	<b>120</b>