



## CONFERENCE ON SOCIAL POLICY & AFRICAN DEVELOPMENT STRATEGIES

Theme:  
Contemporary Issues & Challenges  
In African Development Pattern

# *Abstracts & Proceedings*

**25TH - 26TH MARCH, 2020**

**ABUBAKAR TAFAWA BALEWA UNIVERSITY,  
BAUCHI STATE, NIGERIA**



# CONFERENCE ON SOCIAL POLICY & AFRICAN DEVELOPMENT STRATEGIES

## THEME

Contemporary Issues & Challenges in African Development Pattern

## OBJECTIVE

The conference welcomes contribution from Researchers, Entrepreneurs, Energy, Oil and Gas Sector, Consultants, Policy Makers and Public Administrators, Non Governmental Organisation, and Social and Market Research Practitioners.

DATE: 25th - 26th March, 2020

VENUE: Abubakar Tafawa Balewa University, Bauchi State, Nigeria

TIME: 9:00 am

## CONFERENCE PANEL

**Prof. Yusufu Ali Zoaka**  
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# **CONFERENCE ON SOCIAL POLICY & AFRICAN DEVELOPMENT STRATEGIES**

## **CONFERENCE PROGRAMME**

**DAY ONE – Wednesday 25th March, 2020**

Arrival of Guest/Conferees/Delegates

**DAY TWO – Thursday 26th March, 2020**

### **OPENING SESSION/PLENARY**

Conference Registration	- 8:00am – 9:00am
Opening Prayer/Welcome Remark	- 9:00am – 9:15am
Institutional Brief/Chairman's Opening Remark	- 9:15am – 9:30am
Research Training	- 9:30am – 12noon
Launch Break/Group Photograph	- 12noon – 1:00pm
Plenary Session	- 1:00pm – 4:00pm
Policy Review Session	- 4:00pm – 5:00pm

**DAY THREE – Friday 27th March, 2020**

Departure of Guest/Conferee/Delegates



## WELCOME TO **ABUBAKAR TAFAWA BALEWA UNIVERSITY**

**T**he Abubakar Tafawa Balewa University, ATBU, Bauchi was established in 1980 as the Federal University of Technology (FUT), Bauchi, located in the North Eastern part of Nigeria with Dr. Jerome Udoji and Professor A. O. Adekola as the pioneer Pro-Chancellor and Vice-Chancellor respectively, while Alh. Adamu Aliyu was the first Registrar of the University.

At inception, the University inherited the site of the former Bauchi State College of Arts and Science (BACAS) at Yelwa as temporary site. She also acquired 4,500 hectare parcel of land Bauchi-Ningi Road as its permanent site and another parcel of land along Bauchi-Maiduguri Road on which a residential estate for staff was developed; the estate is called Kari Estate.

The University academic units divided into Schools and Programmes at inception until 2014 when the National Universities Commission (NUC) approved the change of nomenclature from School to Faculty and from Programme to Department. The University started full academic activity at the Yelwa Campus in October, 1981 with the admission of its first batch of 100 students into her Pre-Degree Programme, while Degree Programmes began in 1982 in the School (now Faculty) of Science and Science Education. Two additional Schools (now Faculties), namely the School of Engineering and Engineering Technology and the School of Agriculture and Agricultural Technology were established in the 1983/1984 academic session.

In 1984, under the rationalisation programme of the Federal Government of Nigeria, the University was merged with the Ahmadu Bello University, Zaria and was renamed the Abubakar Tafawa Balewa College, Ahmadu Bello University, (ATBC-ABU) with Professor Buba Bajoga as the Provost. The name of the College was in honour of the first Prime Minister of Nigeria, Late Sir Abubakar Tafawa Balewa. In 1988, it was de-merged from the Ahmadu Bello University and regained its autonomy as a full fledge university. Prof Buba Bajoga, the former Provost, became the Vice Chancellor.

Additional Schools were later established as follows:

- The School (now Faculty) of Environmental Technology in the 1991/1992 Session;
- The School of Post Graduate Studies in the 1995/1996 Session;
- School (now Faculty) of Management Technology and
- The School (now Faculty) of Technology Education in the 2002/2003 Session.

The establishment of the School of Technology Education effectively separated Education courses from the Sciences, and the former School of Science and Science Education was renamed the School of Science. Of recent, the University is in the advanced stages of concluding the establishment of the College of Medical Sciences. The University Governing Council has since set-up Committees to ensure a smooth take-off of the College. As a prelude

to the establishment of the Medical College, the Bauchi State Government handed over the erstwhile Bauchi State Specialist Hospital to the Federal Government, and has since been converted to the University Teaching Hospital.

A major landmark in the history of the University is the relocation to the permanent site at Gubi. This began with the movement of the Directorate of Remedial Studies in 2008 followed by the Faculty of Agriculture and Agricultural Technology. The Central Administration also moved to Gubi Campus in November, 2010.

Currently, the university has 30 Academic Departments, 6 Faculties, 8 Directorates and 7 Centers, with an undergraduate students' population of over 10,000.



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## Congratulations!

*B. Anam*

**Bassey Anam**  
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University of Calabar-Nigeria

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Dated this day 5th November, 2019  
University of Ghana, Accra



*Ravindra*

**Professor Ravindra Kumar**  
former Vice Chancellor  
Ombudsman, Swami Vivekanand,  
Subharati University, Meerut, India.

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# Conference Abstracts

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## Comparative Studies of the Effect of Calcium Oxide (CaO) and Zeolite Catalyst (ZSM5) on Waste Plastics Pyrolysis

<sup>1</sup>Bello Mohammed Bashir, <sup>2</sup>M. Alhassan, <sup>3</sup>A. G. Isah, <sup>4</sup>A. S. Kovo & <sup>5</sup>Olanrewaju, A. Olalekan

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### Abstract

The study examines the comparative studies of the effect of calcium oxide (CaO) and zeolite catalyst on waste plastic pyrolysis. The primary objectives of the study are characterization of CaO and zeolite catalyst using XRF and XRD, waste plastic pyrolysis using CaO and zeolite catalyst, and optimization of the parameters of pyrolysis using CaO and zeolite catalyst. The ERD and XRF analysis shows that the crystal structure of zeolite corresponds to those of ZSM-5 a silica to alumina ratio of 29.48 while the CaO catalyst contains mainly CaO in its crystal structure with 98.848% CaO. The waste plastic pyrolysis was successfully carried out. The optimization study shows that the optimum values of pyrolysis temperature, heating rate and catalyst type for maximum oil yield are 597 °C temperature and 29.909 °C/min heating rate using zeolite catalyst type to give a maximum waste plastic pyrolysis oil yield of 58.385% while 600 °C and 30 oC/min using CaO catalyst type give a yield of 54.868% which shows that the yield obtained with CaO as catalyst is relatively comparable to that obtained using zeolite. The study also shows that there was no much significant difference in the yield of CaO and zeolite at the established optimum condition for both catalyst type. Therefore, considering cost of zeolite CaO could be useful as catalyst for waste plastic pyrolysis.

**Keywords:** *Comparative Studies, Calcium Oxide (CaO), Zeolite Catalyst (ZSM5), Waste Plastics Pyrolysis*