



# Covenant University Newsflash

A weekly update of News and Events in Covenant University January 13-17, 2020

## Oyo State Government seeks Collaboration with Covenant towards Energy Sufficiency

The Government of Oyo State, South-West Nigeria, is desirous of entering into partnership with Covenant University, with a view to harnessing available natural means of energy resources for the provision of adequate power to both the residential and industrial clusters in Oyo State.

The Oyo State Commissioner for Energy and Mineral Resources, Barr Temilolu N.O. Ashamu, made this known on Monday, January 13, 2020, at a meeting between his team and Covenant University Management and researchers.

Barr Ashamu was of the view that energy security, being a key mandate of the new administration in Oyo State, had made imperative the exploration

of ways of ensuring sustainable power for residents of the state.

According to the Commissioner, the state was blessed with several natural resources, with about 40 dams dotting the state, including large expanses of land and lots of industries. "What we are looking for essentially is an energy mix that may comprise of solar, hydro-power, gas-power and waste-to-energy option, taking into consideration that Ibadan as a city generates in excess of 3,000 metric tons of waste a day, which is an option that is available to us," he said.

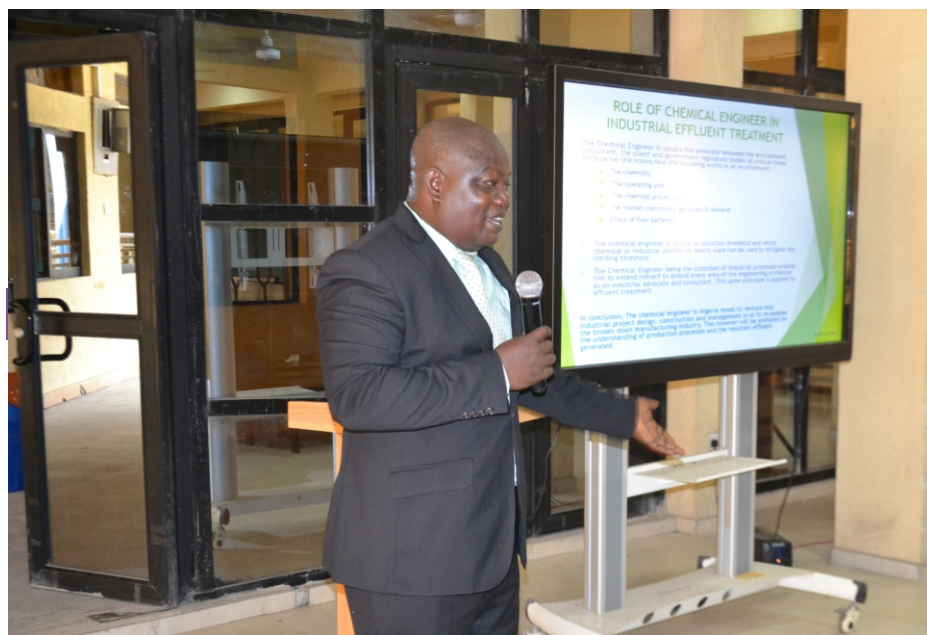
Barr Ashamu added that Oyo State saw a potential collaboration with Covenant, considering the giant



The Oyo State Commissioner for Energy and Mineral Resources, Barr Temilolu N.O. Ashamu, making his presentation

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## Expert tasks Chemical Engineers on Revival of Manufacturing Industry



Technical Director, Omisej Nigeria Limited, Engr Irenea, making his presenting at the Department of Chemical Engineering's Town and Gown Seminar

The chemical engineer in Nigeria needs to venture into industrial project design, construction and management so as to re-awaken the broken down manufacturing industry, according to a seasoned chemical engineer Monday Irenea.

He posed the task to chemical engineers recently, while delivering a lecture as Guest Speaker at the Town and Gown Seminar of the Department of Chemical Engineering, Covenant University. Engr. Irenea, who spoke on the topic 'Industrial Effluent Treatment and the Vital Role of the Chemical Engineer', emphasised that venturing into industrial project design, construction and management so as

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# Expert tasks Chemical Engineers on Revival of Manufacturing Industry

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to re-awaken the broken down manufacturing industry would, however, be anchored on the understanding of production processes and the resultant effluent generated.

While defining a chemical engineer as that individual who had gone through specific formal training in an acceptable institution, thereby licensed to carry out chemical engineering works, Engr. Irenoa, who is the Technical Director, Omisej Nigeria Limited, stated that an industry referred to a compressive system where basic processes were joined together in macro scale to achieve mass production, while industrial effluent was wastewater generated within an industrial complex.

He noted that effluent treatment had become necessary because industrial activities, which had resulted in the production of valuable goods for man's benefit, had also produced waste water that contained harmful components to man and could have adverse effect on the environment. He also stated that the effluent treatment plant aimed to reduce the concentration of chemical/biological parameters in industrial effluent to be below or same threshold of the receiving body in the environment or as specified by regulatory bodies.

Engr. Irenoa highlighted the stages in effluent treatment as Treatment Process Determination, Equipment Identification/Selection, Equipment Design, Cost Determination/Approval, Fabrication and Installation, and Test-running/Commissioning.

While stating the roles of a chemical engineer in industrial effluent treatment, the Guest Speaker explained that the chemical engineer understood the function of each of the units and how they interrelated in operation, selection and chemical compatibility; the chemical engineer, alone within the engineering profession, could determine the optimum reaction conditions and

chemical combination for the desired reaction kinetics as they interphase within the reaction processes; and the chemical engineer understood pollution threshold and which chemical or industrial process on macro scale could be used to mitigate the limiting threshold amongst others.

The Head, Department of Chemical Engineering, Dr Augustine Ayeni, had in his welcome address enjoined students to pay attention to the Guest Speaker so as to enrich their knowledge of what obtained in the industry. Also at the seminar were faculty and staff of the Department.

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strides that had been made by the University within a very short period of time, and the state government had also done its research and due diligence about the values of Covenant, which quite aligned with the values it held dear as an administration.

The Director, Covenant University Centre for Research, Innovation and Discovery (CUCRID), Professor Emeka Iweala, thanked the government of Oyo State for finding Covenant worthy of collaborating with, noting that universities were set up with the intent to provide solution to societal challenges. He stated that Covenant had over 31 research clusters taking up research in different fields of interest, including energy.

The CUCRID Director said that there was need to develop a road map detailing the way to progress on the relationship, considering the

present situation of energy production and distribution system in Oyo State.

The Dean, College of Science and Technology, Professor Temidayo Omotosho, stated that there was need to make use of primary data by visiting locations in Oyo State, to know what was obtainable via drones and satellite imagery, taking measurement and looking at weather records to determine what is feasible, and advise the Oyo State Government appropriately.

In his remarks, the Vice-Chancellor, Covenant, Professor AAA. Atayero, commended the current administration in Oyo State for taking revolutionary steps and bold initiatives, which had recorded significant results since its assumption of office, thus making governance tangible to the people.

Professor Atayero stated that an academic institution's core task was to teach, research and develop its surrounding communities. He, however, posited that to embark on community development, there was the urgent need to put together some important data, which would help in addressing the issue at hand.

"The most important thing we have to do now is set up a team, with their mandate being to carry out preliminary studies on the viability of the different types of energy methodologies and technologies that we may want to use to achieve this process," he stated.

Also present at the business roundtable were the Head of Department (HOD), Mathematics, Professor Samuel Iyase; HOD, Electrical and Information Engineering, Professor Anthony Adoghe; HOD, Petroleum Engineering, Professor Oyinkepreye Orodu; HOD, Banking, Dr. Alex Omankhanlen; HOD, Economics and Development Studies, Dr. Dominic Azuh; and HOD, Accounting, Dr. Dorcas Adetula amongst others.