

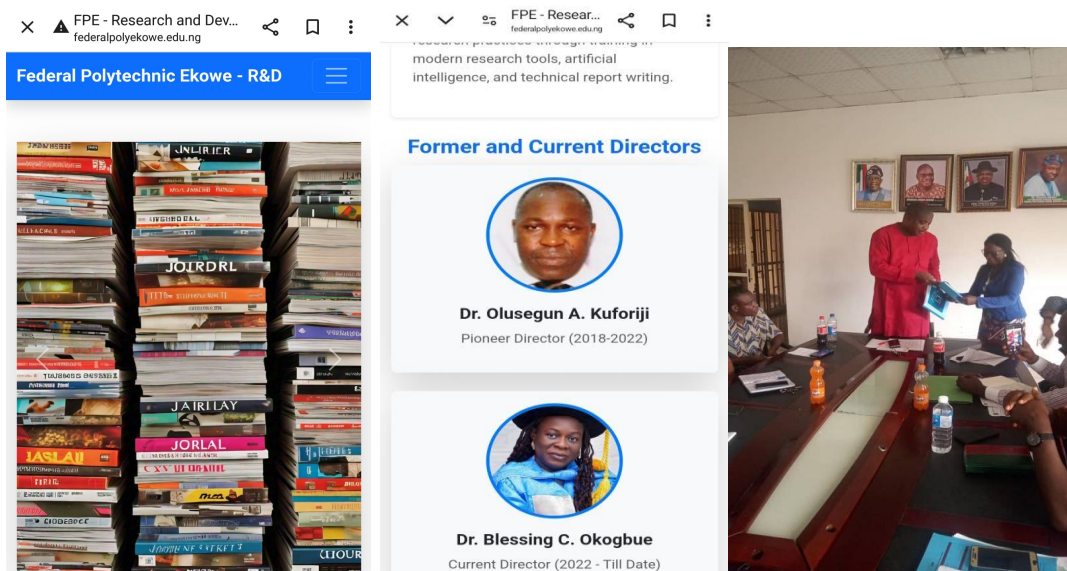


## FPE- R&D NEWSLETTER Vol. 2

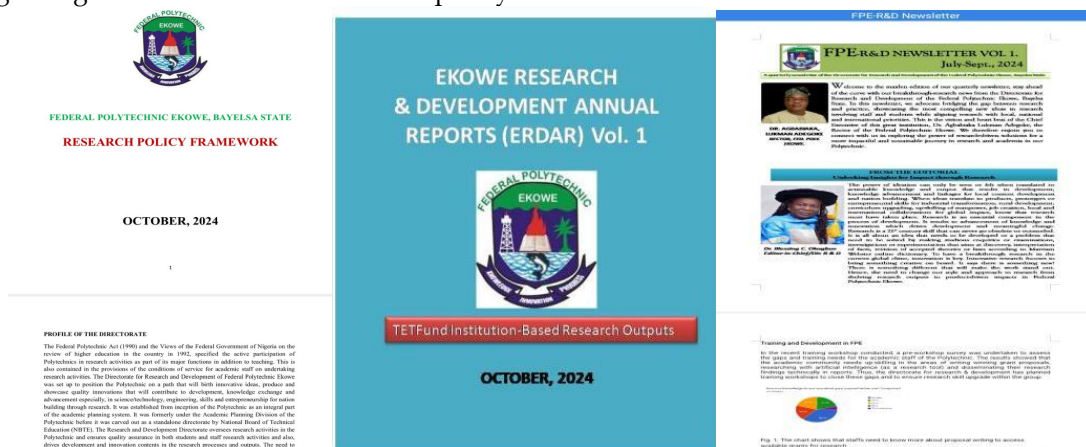
Jan-Mar  
2025

### From The Editorial

The Directorate for Linkages, Research and Development (DLR&D) unveils a website for research report repositories and online publications for the Polytechnic. The Directorate is finally set up for full-fledged activities in research and development said the Director for LR&D, Dr. Blessing C. Okogbue who in the Extended Management meeting held on the 10th of March 2025 presented to the Rector of the Federal Polytechnic Ekowe, Dr. Agbabiaka L. Adegoke the maiden copy of the compendium of research reports compiled and reviewed by the Polytechnic Research Committee. This document the Director said has been approved by the National Library of Nigeria to be an annual publication with assigned e-ISSN (1595-6075) after the website was inspected by the Library led by the Head of Yenagoa branch, Mr. Nwabueze Nwoko.



Dr. Blessing also handed over to the Polytechnic's Chief Executive a copy of the Research Policy Framework developed by the fourteen-man Polytechnic Research Committee to aid in guiding the conduct of research and quality assurance in the institution.

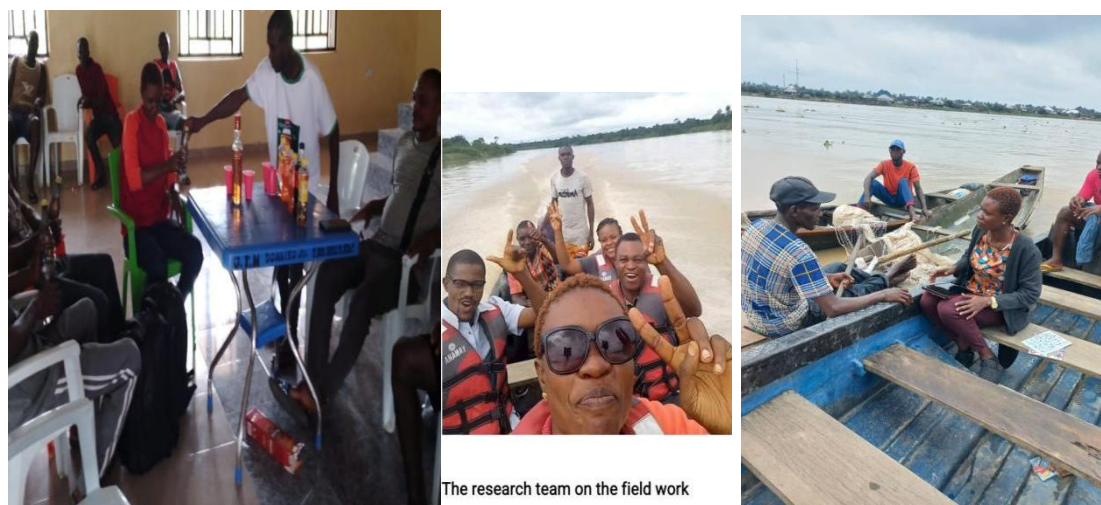


The first edition of the R&D newsletter was also presented to the management board at the meeting. The Director requested that Management adopts the Research Policy Framework as a working document in the Polytechnic after a review by the Board.

Visit [federalpolyekowe.edu.ng/researchdevelopment/](http://federalpolyekowe.edu.ng/researchdevelopment/) to access the publications. Click on technical reports to access the maiden edition of the 2024 IBR Technical Reports and on newsletter to access the uploaded editions of the quarterly newsletters. You may also go to images to access photos on workshops and research activities.

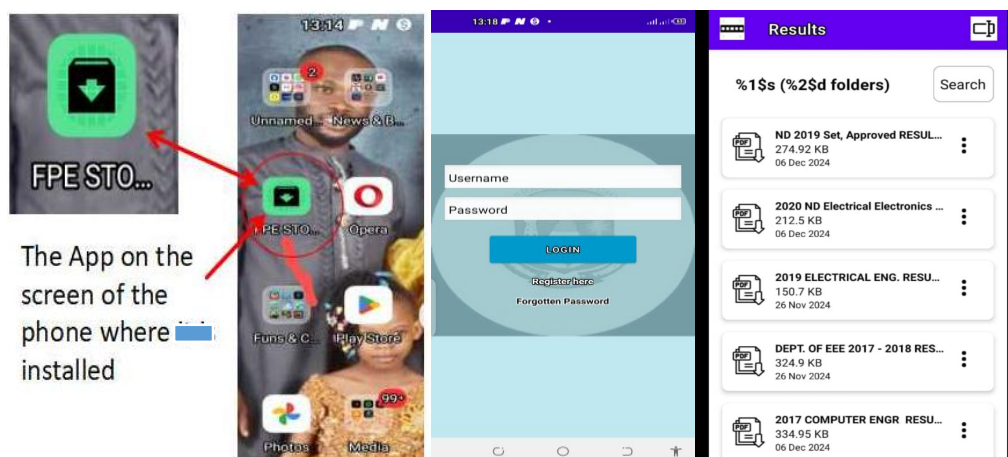
### 2024 Institution-Based Research (IBR) Progress Reports

The Department of Oceanography and Fisheries Science led by the Rector, Dr Agbabiaka L. Adegoke conducted a community development project around the Polytechnic host communities covering thirteen (13) communities in Southern Ijaw LGA. This project aimed to generate data on the fisher folks in the local government for database development on their fisheries and socio-economic activities for referential purposes. This will help in data-driven and evidence-based policies and decision-making by stakeholders in the state. The project has enhanced the visibility of the Polytechnic in the area.



The research team on the field work

**Dr. Onita Chukwuka** from the Department of Electrical/Electronics Engineering Technology presented an App for the Polytechnic. The research the Head of Department conducted with his team, yielded an application for digital records management. The Polytechnic Research Committee commended the researcher and called for collaboration with the ICT unit for possible deployment of the App in the Polytechnic's file management system especially for managing departmental records.



The App on the screen of the phone where installed

**Dr Livinus Obasi** of the Chemical Engineering Technology Department showcased during the presentation an electricity-generating cell from wastewater of poultry waste origin. The cell gave an electricity output of about 4.7 volts on a multimeter. The researcher, who is the



Acting Director for Entrepreneurship was commended by the committee and recommended the project for scaling up.



**Mr Ombu Righteous**, the Head of Physics Electronics unit of the Science Lab. Technology Department presented a report on Litho-lineaments framework and ground water iron contamination implications. From the outcome of this research which involved students, a range around 280m depth was recommended for future boreholes in the Polytechnic to achieve cleaner and iron-free groundwater as obtained in the neighbouring Oyoma community. However, the research was still ongoing as at the time of reporting promising to proffer better depth options for borehole projects by the end of the study.



**Dr. Oti Eric** of the Statistics Department researched on Agglomerative hierarchical clustering methods which are applied to Data Mining and Network Analysis. This the researcher, also the Ag. Director for SIWES explained can be extended to almost all fields of research. A detailed explanation of its application in research will be required in a seminar to further educate the Polytechnic academic community.

### **Conclusion**

The final report of these research projects showcased in the 2024 IBR report presentation will be published in the next edition (volume 2) of the Ekowe Research and Development Annual Reports (ERDAR). All academic staff seeking to access the TETFund research grants are enjoined to conduct quality studies to generate data that will be publishable in Scopus rated journals. More proposals have been submitted for screening towards securing the next round of TETFund grant awards. The Directorate is committed to driving quality and innovative research that will help enhance development of the institution and its visibility to the world.