Editorial

The third issue of the seventeeth volume of AU Journal of Technology contains contributions from the fields of biotechnology, materials engineering, mechanical engineering, technical education, and physics education.

The Research Paper entitled "*In vitro* Antioxidant Assay of Cocoa (*Theobroma cacao*) Oil and Cake" by Ganiyat Kehinde Oloyede and Sunday Felix Abimbade investigates the antioxidant activity of cocoa oil and cake using *in vitro* assay methods. The results of this study further support the medicinal and nutritional values of cocoa.

The Review Article entitled "Improving Human Resources through Technology and Vocational Education for Sustainable Development" by Abubakar Mohammed Idris, Abdullahi Mohammed Hassan, Ossai Lawrance Osaigbovo, Owolabi Christopher, and Leonard Ngwu discusses the concept of Vocational/Technical Education and human resources development and some problems in relation to human resources development through Vocational/Technical Education.

The Book Review entitled 'A Review of Some Updates in the 13th Edition of "Sears and Zemansky's University Physics with Modern Physics" (Authors: Hugh D. Young and Roger A. Freedman; contributing author, A. Lewis Ford; 2012)' by Dobri Atanassov Batovski considers some benefits and shortcomings of said edition in relation to physics education.

The Technical Report entitled "Development of Layout Factor for Mechanical Shear Joints Using Finite Element Analysis" by Hassan Khurshid considers the development of a tool in terms of geometric parameters which is used to predict the maximum load shared by the critical bolt in a layout.

The Technical Report entitled "Kinetics of the Corrosion of Mild Steel in Petroleum-Water Mixture Using Ethyl Ester of Lard as Inhibitor" by Jerome Anguel Undiandeye, Ternenge Joseph Chior, Abubakar Mohammed and Julius Chigozie Offurum shows that the inhibition efficiency of Ethyl Esters of Lard (EEL) increases as the inhibitor concentration increases, decreases with temperature, and follows the Langmuir adsorption isotherm.

The Technical Report entitled "Synthesis and Study of Properties of Biolubricant based on *Moringa oleifera* Oil for Industrial Application" by Francis Uchenna Ozioko demonstrates that said oil would be commercially viable for industrial application.

The Technical Report entitled "The Effect of Sawdust on the Insulating Effect of Ikere Clay as Refractory Lining" by John Femi Akinfolarin1 and Olayinka Oladele Awopetu considers the addition of sawdust to a clay sample. The performed tests lead to the conclusion that pores reduce the conductive capacity of the refractories and therefore increase their insulating characteristics.

Narong Chomchalow, Editor, AU J.T.