































World Energy Council (2013). World Energy Resources: 2013 Survey. London: World Energy Council. [Online]. Available from: [https://www.worldenergy.org/wp-content/uploads/2013/09/Complete\\_WER\\_2013\\_Survey.pdf](https://www.worldenergy.org/wp-content/uploads/2013/09/Complete_WER_2013_Survey.pdf) [Accessed: 25 November 2016].

Yavini, T. D., Taura, W. H., Mohammed N. and Namu, J. M. (2014). Comparative Study of Mesophilic Biogas Production Potential of Selected Agro-Wastes, *The International Journal of Engineering and Science*. February, 3(2), pp 1-6.

## Biographies

Dr. I. A. Daniyan is a Senior Lecturer in the Department of Mechanical and Mechatronics Engineering, Afe Babalola University Ado Ekiti, Nigeria and a Postdoctoral Research Fellow at The Department of Industrial Engineering, Tshwane University of Technology, Pretoria, South Africa. He was the supervisor of this research.

Mr. K. A. Ahwin holds a Bachelor of Engineering Degree in Mechanical Engineering from Afe Babalola University, Ado Ekiti, Nigeria. He played a prominent role in this research for the award of his B.Eng. degree.

Prof. A. A. Aderoba is a Professor of Mechanical and Industrial Engineering. He is the Head of Department of Mechanical & Mechatronics Engineering, Provost College of Engineering and the Director of Technological Development, Afe Babalola University Ado-Ekiti (ABUAD), Nigeria. Engr. Prof. Aderoba is also the Coordinator, ABUAD Industrial Research Park. He is a Chartered Engineer and a Member of the Nigerian Society of Engineers (MNSE), British Institute of Management (MBIM), British Institute of Mechanical Engineers (MIMEchE) and Council of Regulation of Engineers of Nigeria (COREN). He specializes in Industrial & Production Engineering, Machine tools Engineering and Industrial Operations Research. He was the coordinator of this research.

Engr. O. L. Daniyan is the Head of Instrumentation Department, Centre for Basic Space Science, University of Nigeria, Nsukka. He holds both Master and Bachelor Degree in Electrical/Electronics Engineering. He is member of Council for the Regulation of Engineering in Nigeria (COREN) and Nigerian Society of Engineers (NSE). His research interest include; Systems Engineering, Automation and Robotics, Knowledge-based systems, Instrumentation, Artificial Intelligence etc. He also played a prominent role towards the completion of this research.

Khumbulani Mpofu is a Professor and Research leader at the Department of Industrial Engineering, Tshwane University of Technology in South Africa. He has been involved in advanced manufacturing research since 2007. Areas of specialization include the innovative design of manufacturing systems, facility layout and the design of manufacturing equipment. He holds a Doctoral degree in Mechanical Engineering, a Master in Manufacturing Systems and a Bachelor of Engineering in Industrial and Manufacturing Engineering. He is a member of South African Institute of Industrial Engineers (SAIIE). He played an active role in the supervision of this research.