

Prof. Engr. Bukola Olalekan BOLAJI

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Professor Engr. Bukola Olalekan Bolaji was the Head of Department, Mechanical Engineering, Federal University Oye-Ekiti. He was also former the Head of Department, Mechanical Engineering and Pioneer Head of Department, Mechatronics Engineering, Federal University of Agriculture. He has a professional and academic experience of over 20 years; he obtained his Bachelor of Engineering (B.Eng.), Master of Engineering (M.Eng.) and Doctor of Philosophy (PhD.) degrees in Mechanical Engineering at the Federal University of Technology, Akure, Nigeria in 1994, 1998 and 2009, respectively. His research interests are in the areas of refrigeration and air-conditioning, solar thermal and solar power systems. His deep interest in the study of Environment-Friendly Refrigeration System won him a Post-Doctoral research fellowship at the Tshwane University of Technology, Pretoria, South Africa in 2011. In August 2013, he was given award of Academic Excellent by the same University as the Best Post-Doctoral Fellow of the Year 2012. He has supervised over 50 undergraduate and post graduate students. As a chartered Engineer, he has consulted in a variety of industries in Nigeria on refrigeration, air-conditioning and solar power systems for over seventeen years. As an erudite scholar, he has a great wealth of research experience which culminated into over 90 academic publications in international journals, peer reviewed conference proceedings, books etc. He is a member of several professional bodies including: The Nigerian Society of Engineers (NSE), Nigerian Institution of Engineering Management (NIEM) and Environment Behaviour Association of Nigeria (EBAN). He is also a member of Southern African Association for Energy Efficiency (SAEE)).

Some of his scientific publications include:

1. C.O. Adegoke and **B.O. Bolaji** (1999): Exergetic Analysis of Thermosyphon Solar Water Heating System. *Nigerian Journal of Renewable Energy*. 7 (1&2); 50-54.
2. **Bolaji, B.O.** (2005). Estimation of Solar Irradiance on Shaded Surface. *Journal of the Ghana Institution of Engineers*, Ghana, Vol. 3, No. 2, pp. 81-84.
3. **B.O. Bolaji** (2010). Experimental Analysis of Reciprocating Compressor Performance with Eco-Friendly Refrigerants. *Journal of Power and Energy*. Institution of Mechanical Engineers, UK, Vol. 224, No. 6, pp. 781-786.
4. **B.O. Bolaji** (2011). Performance Investigation of Ozone-Friendly R404A and R507 Refrigerants as Alternatives to R22 in a Window Air-Conditioner. *Energy and Buildings*. Elsevier, Atlanta, GA, USA, Vol. 43, No. 11, pp. 3139-3143.
5. **B.O. Bolaji (2012)**. Performance of a R22 Split-Air-Conditioner when Retrofitted with Ozone Friendly Refrigerants (R410A and R417A), *Journal of Energy in Southern African*. University of Cape Town, Vol. 23, No. 3, pp. 16-22.
6. **Bolaji, B.O.** and Huan, Z. (2013). Thermodynamic Analysis of Performance of Vapour Compression Refrigeration System Working with R290 and R600a Mixtures. *Scientia Iranica, Transaction B: Mechanical Engineering*. Sharif University of Technology, Iran, Vol. 20, No. 6, pp. 1720-1728.
7. **B.O. Bolaji**, S.B. Adejuyigbe, J.R. Olonila (2014): Performance Simulation of Vapour Compression Refrigeration Systems Using Ozone-Friendly Hydro-Fluorocarbon Refrigerants. *Annals of Faculty of Engineering Hunedoara-Int. Journal of Engineering*, 12 (3); 177-182.
8. **B.O. Bolaji**, O.D. Komolafe, F.O. Ajayi and E. Akinnibosun (2015): Performance Assessment of Eco-Friendly Hydro-Fluorocarbon and Hydrocarbon Refrigerant Mixtures as R22 Alternatives in Refrigeration Systems. *Middle-East Journal of Scientific Research*. 23(8); 1677-1684.