

CURRICULUM VITAE

1. **Name in Full:** BOLAJI, Bukola Olalekan
Professor, MNSE, MNIEM, MEBAN, MSAEE, COREN Regd.
2. **Place and Date of Birth:** Okemesi-Ekiti, Ekiti State, Nigeria, 26th February, 1964
3. **Nationality:** Nigerian
4. **Marital Status:** Married
5. **No and Ages of Children:** Three (17, 15 and 10 years)
6. **Addresses**
Home Address: C24, Odo-Ese St., Okemesi-Ekiti, Ekiti State, Nigeria
Postal Address: Department of Mechanical Engineering, Faculty of Engineering,
Federal University Oye-Ekiti, P.M.B. 373, Oye-Ekiti, Nigeria.
E-mail Address: bukola.bolaji@fuoye.edu.ng or bolajibo@gmail.com
URL: http://www.fuoye.edu.ng/en/profile-view/userprofile/bukola_bolaji
7. **Telephone Number:** +2348109232572
8. **Present Employment and Status**
Establishment: Federal University Oye-Ekiti, Ekiti State, Nigeria
Department: Department of Mechanical Engineering
Status: Professor
9. **Educational Institutions Attended with Dates**
 - (a) **Primary Education**
St. Michael Primary School, Okemesi-Ekiti, Nigeria – 1969 – 1975
 - (b) **Secondary Education**
Okemesi Grammar School, Okemesi-Ekiti, Ekiti State, Nigeria – 1981 – 1983
Babatope Memorial High School, Ikoro-Ekiti, Ekiti State, Nigeria – 1978 – 1981
St. Stephen Secondary Modern School, Okemesi-Ekiti, Nigeria – 1975 – 1978
 - (c) **Tertiary Education**
Federal University of Technology, Akure, Nigeria. – 2000 – 2008
Federal University of Technology, Akure, Nigeria. – 1993 – 1997
Federal University of Technology, Akure, Nigeria. – 1989 – 1993
Lagos State Polytechnic, Isolo, Lagos State, Nigeria – 1985 – 1988
10. **Qualifications with Dates**
 - (a) Doctor of Philosophy (Ph.D.) in Mechanical Engineering – Jan., 2009
 - (b) Master of Engineering (M.Eng.) Degree in Mechanical Engineering
(Building Services Option) – Feb., 1998
 - (c) Bachelor of Engineering (B.Eng.) Degree in Mechanical Engineering – Feb., 1994
 - (d) National Diploma (ND) in Mechanical Engineering – July, 1988
 - (e) West Africa School Certificate (WASC) – June, 1983
11. **Distinctions**
 - (a) The Best Student in National Diploma in Mechanical Engineering
1987/88 Session Lagos State Polytechnic, Isolo, Lagos State, Nigeria – July, 1988
 - (b) Award of Academic Excellent by the Tshwane University of Technology
Pretoria, South Africa as the Best Post-Doctoral Fellow of the Year 2012 – Aug., 2013
 - (c) **Google Scholar Citations:** Records of citation of research papers;
642 citations as at July, 2015.
 - (d) In the **Ranking of Scientists in Nigeria** Institutions according to their Google
Scholar citations public profiles released by Cybermetric Laboratory Spain,
Prof. Bolaji was ranked amongst top 200 scientists in Nigeria.

12. Membership of Professional bodies

- (a) Member, Nigerian Society of Engineers (R. 10326) – May, 2000
- (b) R. Engr., Council for the Regulation of Engineering in Nigeria (R.9356) – Dec., 2002
- (c) Member, Environment and Behaviour Association of Nigerian (R. 0046) – Dec., 2003
- (d) Member, Nig. Institution of Engineering Management (R. 0574) – Mar., 2004
- (e) Member, Southern African Association for Energy Efficiency (SAEE538) – Oct., 2012

13. Review of Academic and Professional Journals:

- (i) Reviewer for Journal of Engineering Science and Technology, a Publication of Taylor's University, Malaysia.
- (ii) Reviewer for International Journal of Energy Research, UK.
- (iii) Reviewer for Energy and Environment, Published by Multi-Science, UK.
- (iv) Reviewer for the Journal of the Association of Professional Engineers of Trinidad & Tobago, West Indies
- (v) Reviewer for Journal of Agricultural Biotechnology and Sustainable Development, Published by Academic Journals, Lagos, Nigeria
- (vi) Reviewer for Scientia Iranica, Published by Elsevier, US.
- (vii) Reviewer for Journal of Applied Energy Published by Elsevier, US.
- (viii) Reviewer for Thermal Science Published by Society of Thermal Engineers of Serbia.
- (ix) Reviewer for Journal of Cleaner Production, Published by Elsevier, US.

14. Working Experience with Dates

(i) Academic Experience

- (a) **Federal University Oye-Ekiti, Ekiti State, Nigeria**
 - (i) Professor (July, 2014 to date)
- (b) **Federal University of Agriculture, Abeokuta, Nigeria**
 - (i) Associate Professor (Oct., 2012 – June, 2014)
 - (ii) Senior Lecturer (Oct., 2009 – Sep., 2012)
 - (iii) Lecturer I (Jan., 2006 – Sep., 2009)
- (c) **The Federal University of Technology, Akure, Nigeria**
 - (i) Lecturer II (Jan., 2004 – Jan., 2006)
- (d) **The Federal Polytechnic, Ado – Ekiti, Nigeria**
 - (i) Lecturer II (July 2000 – Jan., 2004)
 - (ii) Lecturer III (July 1997 – June 2000)
 - (iii) Assistant Lecturer (Oct., 1995 – June 1997)
- (e) **Omoluorogbo Grammar School, Akure, Nigeria**
 - (i) Physics and Mathematics Teacher. (June, 1994 – Oct., 1995)

(ii) Industrial Experience

- (a) **Kaduna Refinery and Petrochemical Company,** Kaduna, Nigeria – Student on Industrial Attachment. (April 1992 – Sep., 1992)
- (b) **Peerless Technology Ltd.,** 103, St. Finbarrs College Rd, Akoka, Lagos, Nigeria – Technician and Site Supervisor. (April 1989 – Dec., 1989)
- (c) **M. A. Kay Technical Company Ltd.,** Isolo Road, Mushin Lagos, Nigeria – Technician (Oct., 1988 – March 1989)

(iii) Administrative Experience

- (a) **Director,** Information and Communication Technology (ICT) Unit Federal University Oye-Ekiti (FUOYE) (Mar., 2016 – Oct., 2017)
- (b) **HOD,** Mechanical Engineering Department FUOYE (Aug., 2015 – Aug., 2016)
- (c) **Ag. HOD,** Mechatronics Engineering Dept., FUNAAB (Dec., 2012 – June, 2014)
- (d) **Ag. HOD,** Mechanical Engineering Dept., FUNAAB (May, 2010 – Nov., 2011)
- (e) **Coordinator,** Mechanical Engineering Dept., FUNAAB (Mar., 2007 – Feb., 2008)

- (f) **Chairman**, COREN and NUC Accreditations Documentation Committee, FUNAAB (Oct., 2007 – July, 2008)
 - (g) **Vice-Chairman**, Management Committee on Transportation (MANCOT), FUNAAB (Aug., 2009 – Nov., 2011)
 - (h) **Chairman**, Departmental Examination Committee, Federal University of Agriculture, Abeokuta (FUNAAB) (Feb., 2006 – Mar., 2010)
 - (i) **Chairman**, Departmental Examination Committee, Federal University of Technology, Akure (FUTA) (Feb., 2004 – Jan., 2006)
 - (j) **Chairman**, Departmental Examination Committee, Federal Polytechnic, Ado-Ekiti (June, 2001 – Jan., 2004)
- (iv) Special Assignments at Federal University Oye-Ekiti, Ekiti State, Nigeria**
- (a) Member, University Mock Accreditation Team for COREN and NUC, Federal University Oye-Ekiti, (FUOYE) Nigeria (2016, 2017)
 - (b) Member, University Annual Report Committee, FUOYE (Aug., 2016 – Oct., 2017)
 - (c) Member, Federal University Oye-Ekiti Senate Ad-hoc Committee on the Review of Guidelines for Appraisals, Appointments and Promotions of Academic Staff (Nov., 2015)
 - (d) Chairman, Departmental Accreditation Committee, FUOYE (Nov., 2014 – July, 2015)
- Special Assignments at Federal University of Agriculture, Abeokuta, Nigeria**
- (a) Member, Users' Committee for the Construction of 2,000 Capacity Lecture Theatre, FUNAAB (Aug., 2010 – Nov., 2011)
 - (b) Member, University's Publication Committee, FUNAAB (July, 2008 – June, 2014)
 - (c) Member, University's Timetable and Examination Committee, (TIMTEC), FUNAAB (July, 2009 – Nov., 2011)
 - (d) Member, University's Committee on Alternative Electricity Generation for FUNAAB (Nov., 2010 – Nov., 2011)
 - (e) Member, University's Committee on the Development of a New Programme for Processing of Results, FUNAAB (Feb., 2010)
 - (f) Member, University's Comm. on the Review of Procedure of Processing of Academic Transcripts, FUNAAB (Oct., 2009)
 - (g) Member, Anti-Corruption and Transparency Monitoring Unit (ACTU), FUNAAB (Mar., 2010 – June, 2014)
 - (h) Representative of College of Engineering (COLENG) on the Board, College of Environmental and Resources Management (COLERM), FUNAAB (Feb., 2006 – Mar., 2008)
 - (i) Representative of College of Engineering (COLENG) in the University Library Board, FUNAAB (Feb., 2006 – Mar., 2008)
 - (j) Rep. of College of Engineering (COLENG) on the Board, College of Plant Sc. and Crop Production, FUNAAB (Mar., 2008 – April, 2009)
 - (k) Representative of College of Engineering (COLENG) on the Board, College of Animal Science and Livestock Production (COLANIM), FUNAAB (April, 2009 – June, 2014)
 - (l) Rep. of College of Engineering (COLENG) in the Univ. Library Promotion Assessment Panel, FUNAAB (April, 2009 – Nov., 2010)
 - (m) Member, School of Engineering Publications and Curriculum Development Committees, FUTA (Aug., 2004 – Jan., 2006)
 - (n) Member, School of Engineering Examination and Time-Table Committees, FUTA (Jan., 2004 – Jan., 2006)
 - (o) Departmental Examination Officer, FUTA (Jan. 2004 – Jan. 2006)

Special Assignments at Federal Polytechnic Ado-Ekiti, Nigeria

- (a) Departmental Examination Officer, Fed. Poly Ado-Ekiti (March, 2001 – Dec., 2003)
- (b) Member, School of Engineering Computer Committee, Federal Polytechnic, Ado-Ekiti (Feb., 1999 – Dec., 2003)
- (c) Member, School of Engineering Research and Publication Committee, Federal Polytechnic, Ado-Ekiti (Feb., 1999 – Dec., 2003)
- (d) Member, Departmental Committee of Internal Assessor, Federal Polytechnic, Ado-Ekiti (April, 1996 – Dec., 2003)

15. University Teaching Loads per Session

(a) Undergraduate Level at Federal University Oye Ekiti, Ekiti State, Nigeria

| | | | | |
|-------------------------|-------|-----------------------------|-----------|---------|
| First Semester: | (i) | Thermodynamics I | (MEE 205) | 2 Units |
| | (ii) | Thermodynamics II | (MEE 307) | 2 Units |
| | (iii) | Thermodynamics III | (MEE 405) | 2 Units |
| | (iv) | Fluid Mechanics III | (MEE 411) | 2 Units |
| | (v) | Fluid Machinery | (MEE503) | 2 Units |
| | (vi) | Internal Combustion Engines | (MEE511) | 3 Units |
| Second Semester: | (i) | Fluid Mechanics I | (MEE 206) | 2 Units |
| | (ii) | Fluid Mechanics II | (MEE 308) | 2 Units |
| | (iii) | Heat Transfer | (MEE504) | 3 Units |
| | (iv) | Mechanical Maintenance | (MEE510) | 3 Units |

(b) Undergraduate Level at Federal University of Agriculture, Abeokuta, Nigeria

| | | | | |
|-----------------------------|-------|-------------------------------------|-----------|---------|
| First Semester: | (i) | Refrigeration & Air-conditioning II | (MCE 503) | 3 Units |
| | (ii) | Internal Combustion Engine | (MCE 409) | 3 Units |
| | (iii) | Refrigeration & Air-conditioning I | (MCE 407) | 3 Units |
| | (iv) | Machine Drawings | (MCE 301) | 1 Unit |
| | (v) | Fluid Mechanics I | (MCE 205) | 2 Units |
| Second Semester: | (i) | Power Generating Plants | (MCE 508) | 3 Units |
| | (ii) | Fluid Machinery | (MCE 506) | 3 Units |
| | (iii) | Automobile Engineering | (MCE 504) | 3 Units |
| | (iv) | Applied Thermodynamics | (MCE 308) | 3 Units |
| Postgraduates Level: | (i) | Advanced Thermodynamics | (MCE 705) | 3 Units |
| | (ii) | Mechanical Engineering Design | (MCE 622) | 3 Units |
| | (iii) | Engineering Graphics | (MCE 611) | 3 Units |

16. External Examiner:

(a) External Examiner for Polytechnic (ND and HND) Programmes

- (i) Federal Polytechnic, Ado-Ekiti, Nigeria (2013 – 2016)
- (ii) Yaba College of Technology, Yaba, Lagos, Nigeria (2016 – 2018)

(b) External Examiner for Undergraduate Programmes

- (i) Landmark University Omu-Aran, Kwara State, Nigeria (2016 – 2018)
- (ii) Ladoke Akintola University of Technology, Ogbomoso, Nigeria (2014 – 2017)
- (iii) Afe Babalola University, Ado-Ekiti, Nigeria, (2016 – 2018)
- (iv) Elizade University, Ilara-Mokin, Ondo State, Nigeria (2017 till date)

(c) External Examiner for Postgraduate Programmes

| S/N | Name of Student | Title of Thesis | Programme | University | Year |
|-----|-------------------|---|-----------|---|------|
| 1 | Saravanakumar, R. | Exergy analysis of a domestic refrigerator using environmental friendly HC refrigerant mixtures | Ph.D. | Anna University Chennai, India | 2014 |
| 2 | Sivakumar, M. | Thermodynamic investigations on three stage auto refrigerating cascade system using eco-friendly refrigerants | Ph.D. | Anna University Chennai, India | 2014 |
| 3 | Babatunde, I.A. | Effects of antimony and an electrolyte on the mechanical properties of recycled cast aluminium alloys | M.Tech | Ladoke Akintola University of Tech, Ogbomosho, Nigeria | 2014 |
| 4 | Thangavel, P. | Investigations on performance enhancement techniques in vapour compression refrigeration system | Ph.D. | Anna University Chennai, India | 2015 |
| 5 | Oladebeye, D.H. | Development of a mini-robot for welding applications in manufacturing | Ph.D. | Federal University of Tech. Akure, Nigeria | 2016 |
| 6 | Ogini, O.T. | Comparative study of residential household energy consumption in Nigeria: Ekiti State as case study | M.Eng. | Federal University of Technology Akure, Nigeria | 2016 |
| 7 | Adedoyin, F.H. | Development of a computer-aided application for double-effect vapour absorption refrigeration system | M.Eng. | Federal University of Technology Akure, Nigeria | 2016 |
| 8 | Nenuwa, I.O. | Development of plantain dryer using charcoal and sawdust as energy fuel | M.Eng. | Federal University of Tech. Akure, Nigeria | 2017 |
| 9 | Idowu, E.T. | Numerical simulation of performance of shell and tube heat exchanger | M.Eng. | Federal University of Tech. Akure, Nigeria | 2017 |
| 10 | Ijabiken, O.S. | Development of a refrigeration system for the storage of perishable food items | M.Eng. | Federal University of Tech. Akure, Nigeria | 2017 |
| 11 | Adogbeji, O.V. | Production and characterization of biodiesel from African bread fruit oil (<i>Treculia Africana</i>) | M.Eng. | Federal University of Technology Akure, Nigeria | 2017 |
| 12 | Lasisi, I.O. | Development of solar dryer incorporated with a thermal storage mechanism | M.Eng. | Federal University of Tech. Akure, Nigeria | 2017 |
| 13 | Adeleye, A. | Design of dynamic facility layout and virtual monitoring system for plantain flour process plant | M.Eng. | Federal University of Technology Akure, Nigeria | 2017 |
| 14 | Ibitowa, O.A. | Development of a percolation reactor for the production of ethanol from lignocellulosic biomass | M.Eng. | Federal University of Technology Akure, Nigeria | 2017 |
| 15 | Nyaka, C.D. | Development of a supply chain blueprint for the reconfigurable bending press machine | M.Tech | Tshwane Univ. of Tech., Pretoria, South Africa | 2017 |
| 16 | Makinde, O.A. | Agent-Based Modelling for Automated Maintenance Tasks Achievement on a Reconfigurable Vibrating Screen | M.Tech | Tshwane University of Technology Pretoria, South Africa | 2017 |
| 17 | Adenuga, O.T. | Agent-Based Control System for Reconfigurable Bending Press Machine | D.Tech | Tshwane Uni of Tech Pretoria, South Africa | 2017 |
| 18 | Vivekanandhan, C. | Analysis of Mechanical Properties of Glass and Kevlar Fibre with Modified Epoxy Hybrid Composites | Ph.D. | Anna University Chennai, India | 2017 |
| 19 | Seriki, M.E. | Effects of paper paste and palm kernel shell on the calorific value of sawdust briquettes | M.Eng. | Federal University of Tech. Akure, Nigeria | 2018 |

17. Postgraduate Supervision

(a) Master's Projects Supervised

| S/ N | Title of Thesis | Name of Student | Matric No | Completed /On-going | Major/ Co-Supervisor |
|------|--|-----------------|-----------|---------------------|----------------------|
| 1 | Design and Performance Evaluation of a Mobile Cooler Refrigerator Retrofitted with R134a | Akintaro, A.O. | PG08/0224 | Completed | Major Supervisor |
| 2 | Evaluation of Biogas Yield of Selected Ratios of Cattle, Swine and Poultry Wastes | Okuo, D.O. | PG08/0227 | Completed | Co-Supervisor |
| 3 | Correlation between Sunshine Hours and Global Solar Radiation in Abeokuta, Nigeria | Openibo, A.O. | PG08/0340 | Completed | Co-Supervisor |
| 4 | Experimental investigation of the performance of LPG refrigerants in a vapour compression refrigerating system | Oyelami, S. | PG09/0227 | Completed | Major Supervisor |
| 5 | Tidal power potential evaluation of Lagos Costal area | Nwaokocha, C.N. | PG09/0222 | Completed | Co-Supervisor |
| 6 | Performance investigation of spark ignition engine using ethanol as alternative fuel | Surakat A.S. | PG10/0300 | Completed | Major Supervisor |
| 7 | Computer simulation and experimental study of LPG refrigerant performance in a domestic refrigerator | Babarinde, T.O. | PG10/0267 | Completed | Major Supervisor |
| 8 | Experimental analysis of the performance of hydrocarbon refrigerants in a domestic refrigerator | Borokinni, F.O. | PG10/0270 | Completed | Major Supervisor |
| 9 | Performance study of a R134a domestic refrigerator retrofitted with R290 and R600a | Oke, O.O. | PG10/0286 | Completed | Major Supervisor |
| 10 | Effects of sub-cooling and refrigerant charge on the performance of a domestic refrigerator | Opeyemi, L.A. | PG10/0292 | Completed | Major Supervisor |
| 11 | Evaluation of energy content of biogas from agriculture and animal residues | Adeleke, A.I. | PG10/0255 | Completed | Co-Supervisor |
| 12 | A study on workers exposure to noise and vibration in a manufacturing company | Orelaja, O.A. | PG10/0293 | Completed | Co-Supervisor |
| 13 | Computerized inventory management for a manufacturing industry | Owoeye, E.S. | PG10/0294 | Completed | Co-Supervisor |
| 14 | Computer aided simulation of a refrigerating system in a food processing company | Owoyemi, T.J. | PG10/0297 | Completed | Co-Supervisor |
| 15 | Water absorption kinetics of <i>ofada</i> and <i>nerica</i> rice during soaking | Adesina, B.S. | PG09/0051 | Completed | Co-Supervisor |
| 16 | Evaluation of Water-Extract from Fermented Ground Maize for its Potentials as Coolants for Engine and Machining Operations | Yusuf, T.A. | PG11/0584 | Completed | Major Supervision |

| S/N | Title of Thesis | Name of Student | Matric No | Completed /On-going | Major/ Co-Supervisor |
|-----|---|-----------------|-----------|---------------------|----------------------|
| 17 | Development of a Solar Box Cooker with a Hot Water Dispensing System | Omotainse, P.O. | PG11/0110 | Completed | Co-Supervisor |
| 18 | Development of a battery cage installed with a drinking system | Osu, M.F. | PG11/0111 | Completed | Co-Supervisor |
| 19 | Synthesis, Characterization and Optical Properties of Nanocrystalline ZnO-Dye Hybrids Usable in Solar Industries | Bada, D.A. | PG10/0237 | Completed | Co-Supervisor |
| 20 | Development of an Automobile Faults Diagnostic Software Using Expert System | Adeniyi, V.A. | PG11/0506 | Completed | Co-Supervisor |
| 21 | Energy Analysis of a Crude Oil Distillation Unit of Nigerian Refinery | Zubairu, A.S. | PG11/0585 | Completed | Co-Supervisor |
| 22 | Development of software for Determining Material Removal Rate of Various Operations on a Conventional Lathe Machine | Olopade, O.F. | PG11/0564 | Completed | Co-Supervisor |

(b) **Ph.D Theses Supervised**

| S/N | Title of Thesis | Name of Student | Matric No | Completed / On-going | Major/ Co-Supervisor |
|-----|---|-------------------|-----------|----------------------|----------------------|
| 1 | Automation of Sandcrete Block Production | Akintunlaji, O.A. | PG08/0225 | On-going | Co-Supervisor |
| 2 | Development of a Motorized Biomass Fuel Briquetting Machine | Oyelaran, O.A. | PG10/0298 | Completed | Major Supervisor |
| 3 | Modelling and performance characterisation of solar powered absorption refrigeration system | Sangotayo, E.O. | PG09/0229 | Completed | Co-Supervisor |
| 4 | In-situ trans-esterification of pycnanthus (pycnanthus Angoleusis) seeds into biodiesel using mixed methanol/ethanol system | Samuel, O.D. | PG09/0228 | Completed | Co-Supervisor |
| 5 | Zero-loss grain storage and management using computer aided management | Olorunfemi, J.B. | PG09/0321 | Completed | Co-Supervisor |
| 6 | Performance Investigation of Nano-lubricants in Refrigeration System using Hydro-fluorocarbon (HFC) Refrigerant as Working Fluids | Oloko, G.A. | PG11/0508 | On-going | Major Supervisor |
| 7 | Simulation and experimental modelling of combined ventilation and power solar chimney | Abayomi, T.L. | PG11/0544 | Completed | Co-Supervisor |
| 8 | Room conditioning by water flowing through inserted pipes in attic roof for thermal Comfort in tropical region | Fakehinde, O.B. | PG11/0535 | Completed | Co-Supervisor |

18. Research in Progress

(a) On-going research

- (i) Design and construction of a solar PV powered refrigerator for rural applications.
- (ii) Studies of Thermodynamic Properties and Energy Performance of RE170 and R510A Refrigerants in Vapour Compression Refrigeration System.
- (iii) Assessment of Retrofitted R134a Refrigerator with a Low Global Warming Potential Refrigerant.

(b) Research completed but not yet published

- (i) Analysis of the Performance of Hydrocarbon Refrigerants in a Sub-cooling Heat Exchanger System.
- (ii) Theoretical Investigation of Energy Performance and Thermal Conductivity of Eco-Friendly Refrigerants in Vapour Compression Refrigeration Systems.

19. Fellowship Awards: Postdoctoral Fellowship, Tshwane University of Technology, Pretoria, South Africa (Nov., 2011 – Nov., 2012).

20. Research Grants and other Grants:

- (i) Research Grant to carry out a research on “Development of a Solar Fish Dryer” under Research and Development Centre (RESDEC), Research Grant No: RG202 of 2006, University of Agriculture, Abeokuta. The award valued ₦200,000.00.
- (ii) Research Grant to carry out a research on “Design and Construction of a Solar Photovoltaic Powered Refrigerator for Rural Applications” under Institute of Food Security, Environmental Resources and Agricultural Research, Research Grant Ref. No.: UNAAB/ IFSERAR/IRG01, University of Agriculture, Abeokuta. The award valued ₦350,000.00.

21. Publications

(a) Thesis/Dissertation:

- (i) **Bolaji, B.O.** (2008). Investigating the Performance of Some Environment-Friendly Refrigerants as Alternative to R12 in Vapour Compression Refrigeration System. Ph.D Thesis in the Department of Mechanical Engineering, Federal University of Technology, Akure, Nigeria, 150pp.
- (ii) **Bolaji, B.O.** (1997) – Performance Evaluation of an Improved Thermosyphon Solar Water Heating System M.Eng. Thesis in the Dept. of Mechanical Engineering, Federal University of Tech., Akure, Nigeria, 101pp.
- (iii) **Bolaji, B.O.** (1993) – Design and Construction of a Flat-Plate Solar Water Heating System B.Eng. Thesis in the Department of Mechanical Engineering, Federal University of Technology, Akure, Nigeria, 76pp.

(b) Books

(i) Author Books

- (1) **Bolaji, B.O.** (2008). *Introduction to Fluid Mechanics*. 1st Edition, Adeksor Nig. Ent. ISBN: 978-33146-9-6, Abeokuta, Nigeria.

(c) Journal Articles

- (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, Published by the Energy Research Centre, Sokoto, Nigeria.
- (2) C.O. Adegoke and **B.O. Bolaji** (2000): Performance Evaluation of Solar – Operated Thermosyphon Hot Water System in Akure. *International Journal of Engineering and Engineering Technology*, FUTAJEET. 2 (1); 35-40, Published by the Federal University of Technology, Akure, Nigeria.

- (3) **B.O. Bolaji** and M.I.A. Onipede (2004): Analysis of Solid Waste Management in Nigeria Cities: Lagos and Ado-Ekiti as Case Study. *Nigerian Journal of Engineering Management* (NJEM). 5 (3); 43-48, Published by the Nigerian Institution of Engineering Management.
- (4) Onipede, M.I.A and. **Bolaji, B.O.** (2004): Management and Disposal of Industrial Wastes in Nigeria. *Nigerian Journal of Mechanical Engineering*. 2 (1); 49-63, Published by the University of Ado Ekiti, Nigeria.
- (5) Oladebeye, D.H. and **Bolaji, B.O.** (2004): Design, Construction and Performance Testing of a Forced Vortex Equipment for use in the Fluid Mechanics Laboratory. *International Journal of Science and Technological Research*. 1 (1&2); 132-144, Published by the Development Universal Consortia, Nigeria.
- (6) **B.O. Bolaji** (2005): Performance Evaluation of a Box-Type Absorber Solar Air Collector for Crop Drying. *Journal of Food Technology*. 3 (4); 595-600, Grace Publication Pakistan. Available online at <http://www.medwellonline.net/fulltext/jft/2005/595-600.pdf>
- (7) **B.O. Bolaji** (2005): The use of Sawdust as an Alternative Source of Energy for Domestic Cooking and as a means of Reducing Deforestation. *Global Journal of Environmental Sciences*. 4 (1); 73-76, Published by Bachudo Science Co. Ltd., Nigeria. Available online at <http://www.ajol.info/index.php/gjes/article/view/2444/11108>
- (8) S.B. Adejuyigbe and **B.O. Bolaji** (2005): Design, Fabrication and Performance Evaluation of Bean Dehuller. *Journal of Science and Technology*. 25 (1); 125-132, Published by the Kwame Nkrumah University of Science and Technology, Kumasi, Ghana. Available online at <http://www.ajol.info/index.php/just/article/view/32938>.
- (9) **B.O. Bolaji** and M.I.A. Onipede (2005): Development of a Pilot Plant for the Recycling of Used Lubricating Oil. *Nigerian Journal of Engineering Research and Development* (NJERD). 4 (3); 8-14, Published by the Nigerian Institution of Engineering Management.
- (10) **Bolaji, B.O.** (2005): Estimation of Solar Irradiance on Shaded Surface. *Journal of the Ghana Institution of Engineers*. 3 (2); 81-84. Published by the Ghana Institution of Engineers.
- (11) **B.O. Bolaji** (2005): Solid Waste as an Alternative Energy Source and a means of Solving Waste Disposal Problem in Nigeria. *Global Journal of Environmental Sciences*. 4 (2); 111-114, Published by Bachudo Science Co. Ltd., Nigeria. Available online at <http://www.ajol.info/index.php/gjes/article/view/2449/11113>
- (12) **Bolaji, B.O.** and Onipede, M.I.A. (2005): Silencer Noise Minimization Using Linear Programming Technique. *International Journal of Agricultural Sciences, Science, Environment and Technology* (ASSET). Series B, 4 (1); 107-114. Published by the Fed. University of Agriculture, Abeokuta, Nigeria.
- (13) **Bolaji, B.O.** (2006): Source of Air Pollution and Strategies for its Management in the Nigerian Urban Cities. *The Social Sciences*. 1 (3); 198-205, Published by Medwell Online, Pakistan. Available online at <http://www.medwellonline.net/fulltext/TSS/2006/198-205.pdf>
- (14) **B.O. Bolaji** (2006): Flow Design and Collector Performance of a Natural Circulation Solar Water Heater. *Journal of Engineering and Applied Sciences*. 1 (1); 7-13, Published by Medwell Online, Pakistan. Available online at <http://www.medwellonline.net/fulltext/jeas/2006/7-13.pdf>, Indexed in SCImago
- (15) **B.O. Bolaji** and S.B. Adejuyigbe (2006): Vehicle Emissions and their Effects on the Natural Environment. *Journal of the Ghana Institution of Engineers*. 4 (1); 35-40, Published by the Ghana Institution of Engineers.

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- (86) T.A Yusuf, **B.O. Bolaji**, S.O. Ismaila and J.K. Adewumi (2016): Determination of Thermo Physical Properties of Water-Extract from Fermented Ground Maize (WEFGM) as Possible Alternative to Water Use as Cutting Fluid. *Silpakorn University Science and Technology Journal*, 10 (2); 51-60. Published by the Silpakorn University Thailand. Available online at <http://www.journal.su.ac.th/index.php/sustj/article/view/568/590> Indexed in Google Scholar
- (87) Abiala, I.O. and **Bolaji, B.O.** (2016): Effect of lumped mass matrices on the dynamic response of beams under moving loads. *Nigerian Journal of Scientific Research*. 15 (3); 483-489, Published by the Ahmadu Bello University Zaria, Nigeria. Available online at <https://njsr.abu.edu.ng/NJSR-15-3-2016/articles/NJSR-15-3-2016-13.pdf>
- (88) Oyelami, S. and **Bolaji, B.O.** (2016). Design and Construction of a Vapour Compression Refrigeration System as Test Rig to Investigate the Performance of Liquefied Petroleum Gas (LPG) as Refrigerant. *Journal of Scientific and Engineering Research (JSAER)*. 3 (4); 350-357, Published by JSAER India. Available online at <http://www.jsaer.com/download/vol-3-4-2016/JSAER2016-03-04-350-357>. Global Impact Factor = 0.543
- (89) T.A Yusuf, **B.O. Bolaji** and S.O. Ismaila (2017): Analytical Test of Water-Extract from Fermented Ground Maize as an Alternative Base for Engine Coolants. *Walailak Journal of Science and Technology*, 14 (2); 76-82. Published by the Walailak University Thailand. Available online at <http://wjst.wu.ac.th/index.php/wjst/article/download/1775/653> Indexed in Scopus
- (90) W.B. Ayinde, E.O. Dare, D.A. Bada, S.O. Alayande, F.O. Oladoyinbo, M.A. Idowu, **B.O. Bolaji**, M.I. Ezeh, R.U. Osuji, (2017). Dye – Modified ZnO Nanohybrids: Optical Properties of the Potential Solar Cell Nanocomposites. *International Nano Letters*, 7(3); 171-179. Springer International Publishing, USA. Available online at <https://link.springer.com/content/pdf/10.1007/s40089-017-0211-5.pdf>, Indexed in Scopus
- (91) **B.O. Bolaji**, O.A. Oyelaran and O.C. Okoye (2017). Thermodynamic Study of Environment-Friendly R429A, R435A and R457A Refrigerants as Substitutes for Ozone Depleting R22 in Refrigeration and Air-Conditioning Systems. *Pomorstvo (Scientific Journal of Maritime Research)*, 31(1); 45-52. Published by the Faculty of Maritime Studies, University of Rijeka, Croatia. Available online at <http://hrcak.srce.hr/file/270387>, Indexed in Scopus.
- (92) **B.O. Bolaji**, M.R. Adu, M.U. Olanipekun and E. Akinnibosun (2017). Energy performance of environmental-friendly R435A and R161 refrigerants in sub-cooling refrigeration systems. *The Holistic Approach to Environment*, 7(3); 125-137. Published by the Association for Promotion of Holistic Approach to Environment, Zagreb, Croatia. Available online at <http://hrcak.srce.hr/file/276150>, Indexed in IndexCopernicus.
- (93) B.S. Adesina, T. Olayanju, O. Dairo, **B.O. Bolaji** and O. Sobukola (2017). Applicability of Peleg's equation in predicting water absorption during the soaking of Ofada and Nerica (L1) rice. *Journal of Postharvest Technology, UAE*, 5(4); 51-61. Available at: <http://jpht.info/index.php/jpht/article/view/20313>.
- (94) **B.O. Bolaji**, M.U. Olanipekun, AA. Adekunle and A.E. Adeleke (2018). An analysis of noise and its environmental burden on the example of Nigerian manufacturing companies. *Journal of Cleaner Production*. 172; 1800-1806. Published by the Elsevier Atlanta, GA, USA. Indexed in Scopus; ISI Thomson Reuters IF = 5.715

- (95) F.O. Borokinni, **B.O. Bolaji**, A.A. Ismail (2018). Experimental Analysis of the Performance of the Eco-Friendly R510A and R600a Refrigerants in a Retrofitted Vapour Compression Refrigerating System. *Nase More (Our Sea: International Journal of Maritime Science and Technology)*. 65(1); 11-17. Published by the University of Dubrovnik, Croatia, <https://hrcak.srce.hr/file/287928>, [Indexed in Scopus](#).
- (96) Sangotayo, E.O. Waheed, M.A. and **Bolaji, B.O.** (2018). Experimental Evaluation of a Thermally Driven Adsorption Refrigeration System in Ogbomoso Environs. *Journal of Energy Technologies and Policy*. 8(5); 12-22. Published by the International Institute for Science, Technology and Education (IISTE), USA, Available online at <http://www.iiste.org/Journals/index.php/JETP/article/44304/45702>.
- (97) O.O. Martins, **B.O. Bolaji**, O.H. Adeyemi and O.M. Sanusi. (2018). Design and Construction of a Motorized Citrus Juice Extractor. *FUOYE Journal of Engineering and Technology*. 3(5); 56-60. Published by the Federal University Oye-Ekiti, Nigeria.

iii) Journal Articles Accepted for Publication

- (98) **B.O. Bolaji**, A.E. Adeleke, M.R. Adu, M.U. Olanipekun and E. Akinnibosun (2018). Theoretical Investigation of Energy Saving Potential of Low-GWP R430A, R440A and R450A Refrigerants in a Domestic Refrigerator. *Iranian Journal of Science and Technology-Transactions of Mechanical Engineering*. Published by the Springer International Publishing AG, Switzerland DOI: 10.1007/540997-017-0110-4, [Indexed in Scopus](#); ISI Thomson Reuters IF = 0.595

iv) Chapters in Books (Peers reviewed)

- (99) **Bolaji, B.O.** (2005): Automobile Air Pollutant Emission and Control. In *Environmental Sustainability and Conservation in Nigeria* Okoko, E. and Adekunle, V.A.J. (editors), Chap. 18; 103-108, Published by Environmental Conservation and Research Team (ECRT).
- (100) **Bolaji, B.O.** (2005). CFC Refrigerants and Stratospheric Ozone: Past, Present and Future. In *Environmental Sustainability and Conservation in Nigeria* Okoko, E. and Adekunle, V.A.J. (Eds.) Chap. 37; 231-239, Published by Environmental Conservation and Research Team (ECRT).
- (101) M.A. Waheed, O.D. Samuel, **B.O. Bolaji** and O.U. Dairo, (2015). RSM Optimization of Biodiesel Production from Tobacco Seed Oil. In R.T.D. Parbhakaran, S.A. Kale and K. Prabakar (Eds.) Chap. 5; 85-101, Published by Nova Science Publishers, Inc. New York. [Indexed in Scopus](#)

v) Edited Conference Proceedings

- (102) Ajueyitsi, O.N.A. and **Bolaji, B.O.** (2003). Noise Control for Sustainable Environment in Nigeria Manufacturing Companies. *Proceedings 11th Annual Conference of Environment and Behaviour Association of Nigeria (EBAN)*, V.A.J. Adekunle, E. Okoko and S. Adeduntan (Eds.) 93-99. Published by EBAN.
- (103) **Bolaji, B.O.** (2003). The Role of Solar Energy in the Preservation of Agriculture Products in Nigeria. *Proceedings of 11th Annual Conference of Environment and Behaviour Association of Nigeria (EBAN)*, V.A.J. Adekunle, E. Okoko and S. Adeduntan (Eds.) 187-193. Published by EBAN.
- (104) Adu, M.R. and **Bolaji, B.O.** (2004). Possibility of Rural Electrification through Solar Energy in Nigeria and Solar Power Pumping System for Rural Water Supply. *Proceedings of 6th Annual Engineering Conference of School of Engineering and Engineering Technology, Federal University of Technology, Minna*, O.K. Abubakre, E.N. Onwuka and B.A. Alabandan (Eds.) 105-111. Published by SEET, Federal University of Technology, Minna, Nigeria.

- (105) **Bolaji, B.O.** (2005). Performance Evaluation of a Simple Solar Dryer for Food Preservation. *Proceedings of 6th Annual Engineering Conference of School of Engineering and Engineering Technology, Federal University of Technology, Minna*, O.K. Abubakre, E.N. Onwuka and B.A. Alabandan (Eds.) 8-13. Published by SEET, Federal University of Technology, Minna, Nigeria.
- (106) Akinola, O.A. and **Bolaji, B.O.** (2006). Sustainable Energy Technologies for Poverty Alleviation and Environmental Protection. *Proceedings of 1st National Conference of Faculty of Science, University of Abuja*, S.E. Kakulu (Ed.) 53-63. Published by Faculty of Science, Uni. of Abuja, Nigeria.
- (107) Aiyedun, P.O., Igbudu, O.S. and **Bolaji, B.O.** (2008). Simulation of Load during Rod Rolling of HCSS316 at Low Strain Rate. *Proceedings of the 2nd International Conference on Engineering Research and Development (ICERD)*, 422-430. Published by the Faculty Engineering, University of Benin, Benin City, Nigeria.
- (108) T.J. Owoyemi, S.B. Adejuyigbe, **B.O. Bolaji**, and A.T. Akinwale (2012). Simulation of Refrigeration System in a Food Processing Company: A Case of Nigeria Bottling Company Ikeja. *Proceedings of the 4th International Conference on Engineering Research and Development (ICERD)*, September 4-6, 2012, Benin City, Nigeria. Published by the Faculty Engineering, University of Benin, Benin City, Nigeria.
- (109) **B.O. Bolaji** and Z. Huan (2012). Energy Performance of Eco-Friendly RE170 and R510A Refrigerants as Alternatives to R134a in Vapour Compression Refrigeration System. *Proceedings of 9th International Conference on the Industrial and Commercial Use of Energy*, 139-146. Published by the Cape Peninsula University of Technology, Cape Town, South Africa.
<http://ieeexplore.ieee.org/stamp.jsp?+p=&arnumber=6330159>, Indexed in Scopus.
- (110) O.R. Adetunji, M.M. Olukuade, **B.O. Bolaji**, W. Simka and M. Sowa (2015). Production and Characterization of Amorphous Aluminum-Copper Alloy for Aerospace Applications. *Proceedings of the Conference of Centre for Satellite Technology Development (CSTD), Abuja*, 1-8. Published by Centre for Satellite Technology Development (CSTD), Abuja.
- (111) Ismaila, S.O, **Bolaji, B.O**, Adejumobi, I.O, Amosun, S.T. and Odunlami, S.O (2016). Development of a Solar Energy- Powered Tyre Pressure Control Unit. **International Conference, Federal University of Agriculture, Abeokuta, Nigeria.**

22. Conferences Attended with Dates and Papers Presented

- 1) Environment and Behaviour Ass. of Nigeria, 11th Annual Conference and AGM.
Theme: Challenges of Environmental Sustainability in a Democratic Government
Venue: Federal University of Technology, Akure, Nigeria.
Date: 26th – 28th November, 2003.
Papers Presented:
 - (a) Strategies of Noise Control for Sustainable Environment in Nigerian Industries
 - (b) The Role of Solar Energy in the Preservation of Agriculture Products in Nigeria
- 2) 5th Annual Engineering Conference of School of Engineering and Engineering Technology, Federal University of Technology, Minna, Nigeria.
Venue: Federal University of Technology, Minna, Nigeria.
Theme: Engineering and Technology in a Privatized Economy
Date: 16th – 18th June, 2004.
Papers Read:
 - (a) Possibility of Rural Electrification through Solar Energy in Nigeria.
 - (b) Solar Power Pumping System for Rural Water Supply.
- 3) 6th Annual Engineering Conference of School of Engineering and Engineering Technology, Federal University of Technology, Minna, Nigeria.

- Venue:** Federal University of Technology, Minna, Nigeria.
Theme: Engineering and Technology for Wealth Creation in the Spirit of Needs.
Date: 15th – 17th June, 2005.
Paper Read:
(a) Performance Evaluation of a Simple Solar Dryer for Food.
- 4) Nigerian Society for Environmental Management (NISEM), 2nd Annual Conference
Venue: University of Agriculture, Abeokuta, Nigeria.
Theme: Environmental Imperatives Sustainable Development.
Date: 5th – 8th September, 2005.
Paper Read:
(a) Vehicle Emission and its Effects on Natural Environment.
- 5) 1st Faculty of Science National Conference, University of Abuja, Nigeria.
Venue: University of Abuja, Abuja, Nigeria.
Theme: Science and Technology for National Economic Empowerment and Development Strategy
Date: 18th – 20th July, 2006.
Paper Read:
(a) Sustainable Energy Technology for Poverty Alleviation and Environmental Protection.
- 6) 2nd International Conference on Engineering Research & Development: Innovation
Venue: University of Benin, Benin City, Nigeria.
Theme: Engineering Research & Development
Date: 15th – 17th April, 2008.
Paper Read:
(a) Simulation of Load during Rod Rolling of HCSS316 at Low Strain Rate.
- 7) Multi-Disciplinary International Conference
Venue: Ghana Institute of Management and Public Administration.
Theme: National Development and Millennium Goals toward Poverty Alleviation
Date: 7th – 10th September, 2010.
Papers Read:
(a) Selection of Environment-Friendly Refrigerants and the Current Alternatives in Vapour Compression Refrigeration Systems
(b) Problems Militating Against the Effectiveness of Technological Courses in Nigeria.
- 8) The Nigerian Society of Engineers, 2010 International Engineering Conference.
Theme: Engineering Response in Combating the Effects of Climate Change.
Venue: International Conference Centre, Abuja, Nigeria.
Date: 6th – 10th December, 2010.
Paper Read:
(a) A Unit for Reducing Vehicular Emissions in Petrol Engines.
- 9) 9th International Conference on the Industrial and Commercial Use of Energy
Venue: Protea Hotel, Technopark, Stellenbosch, South Africa.
Theme: Sustainable Energy Solutions for the Developing World
Date: 14th – 16th August, 2012.
Paper Read:
(a) Energy Performance of Eco-Friendly RE170 and R510A Refrigerants as Alternatives to R134a in Vapour Compression Refrigeration System.
- 10) 5th International Conference on Appropriate Technology
Venue: Saint George Hotel, Pretoria, South Africa.

Theme: Appropriate Technology for the 21st Century:

Date: 20th – 24th November, 2012.

Papers Read:

(a) Energy Performance of Eco-Friendly R432A and R433A as Alternatives to R22.

(b) Computerized Inventory Management for a Manufacturing Industry.

23. Extra Curriculum Activities

(i) Within the University

(a) Member, Management Committee on Transportation (MANCOT) (Aug., 2009 to Nov., 2011)

(b) Member, Anti-Corruption and Transparency Monitoring Unit (ACTU) UNAAB (March, 2010 to date).

(ii) Outside the University

(a) West African Examination Council, Nigeria

1. Member, International Preliminary Coordination
(Comprising Nigeria, Liberia, Sierra-Leone, Ghana and
Gambia) on Metalwork for Senior Secondary School. 2001 – 2014
2. Team Leader/Examiner for Metalwork Senior Secondary School. 2001 – 2014
3. Assistant Examiner for Metalwork Senior Secondary School. 1995 – 2001
4. Assistant Examiner for Physics Senior Secondary School. 1994 – 1995

(b) Christian/Church Activities

1. District Pastor, Deeper Life Bible Church
2. Counselling and Praying

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