

## 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 (15, 13 and 8 years)
6. **Permanent Home Address:** C24, Odo-Ese St., Okemesi-Ekiti, Ekiti State, Nigeria
7. **Present Postal Address:** Department of Mechanical Engineering,  
Faculty of Engineering, Ikole-Ekiti Campus  
Federal University Oye-Ekiti, Ekiti State,  
P.M.B. 373, Oye-Ekiti, Nigeria.

URL: [http://www.fuoye.edu.ng/en/profile-view/userprofile/bukola\\_bolaji](http://www.fuoye.edu.ng/en/profile-view/userprofile/bukola_bolaji)

### 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

### 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.

### 14. External Examiner:

- (i) Landmark University Omu-Aran, Kwara State, Nigeria (Undergraduate Programme)
- (ii) Ladoko Akintola University of Technology, Ogbomosho, Nigeria (Postgraduate Programme)
- (iii) Ladoko Akintola University of Technology, Ogbomosho, Nigeria (Undergraduate Programme)
- (iv) Federal University of Technology Akure, Nigeria (Postgraduate Programme)
- (v) Federal Polytechnic, Ado-Ekiti, Nigeria (ND and HND Programmes)

### 15. 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 to date)
- (b) HOD, Mechanical Engineering Department FUOYE (Aug., 2015 to date)
- (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 Annual Report Committee (Aug., 2015 to date)
- (b) Member, Federal University Oye-Ekiti Senate Ad-hoc Committee on the Review of Guidelines for Appraisals, Appointments and Promotions of Academic Staff (Nov., 2015)
- (c) Chairman, Departmental Accreditation Committee, Federal University Oye-Ekiti, Nigeria (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, Departmental Committee on programming with Visual BASIC, FUTA (June, 2004 - Jan., 2006)
- (n) Member, School of Engineering Publications and Curriculum Development Committees, FUTA (Aug., 2004 – Jan., 2006)

- (o) Member, School of Engineering Examination and Time-Table Committees, FUTA (Jan., 2004 – Jan., 2006)
- (p) 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)

**16. 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

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

**First Semester**

(i)	Refrigeration and Air-conditioning II	(MCE 503)	3 Units
(ii)	Internal Combustion Engine	(MCE 409)	3 Units
(iii)	Refrigeration and 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

## 17. Postgraduate Supervision

### (a) Master's Projects Supervised

S/ N	Title of Thesis	Name of Student	Year of Commencement	Completed /On-going	Major/ Co-Supervisor
1	Design and Performance Evaluation of a Mobile Cooler Refrigerator Retrofitted with R134a	Akintaro, A.O.	2008	Completed	Major Supervisor
2	Evaluation of Biogas Yield of Selected Ratios of Cattle, Swine and Poultry Wastes	Okuo, D.O.	2008	Completed	Co-Supervisor
3	Correlation between Sunshine Hours and Global Solar Radiation in Abeokuta, Nigeria	Openibo, A.O.	2008	Completed	Co-Supervisor
4	Experimental investigation of the performance of LPG refrigerants in a vapour compression refrigerating system	Oyelami, S.	2009	Completed	Major Supervisor
5	Tidal power potential evaluation of Lagos Costal area	Nwaokocha, C.N.	2009	Completed	Co-Supervisor
6	Performance investigation of spark ignition engine using ethanol as alternative fuel	Surakat A.S.	2010	Completed	Major Supervisor
7	Computer simulation and experimental study of LPG refrigerant performance in a domestic refrigerator	Babarinde, T.O.	2010	Completed	Major Supervisor
8	Experimental analysis of the performance of hydrocarbon refrigerants in a domestic refrigerator	Borokinni, F.O.	2010	Completed	Major Supervisor
9	Performance study of a R134a domestic refrigerator retrofitted with R290 and R600a	Oke, O.O.	2010	Completed	Major Supervisor
10	Effects of sub-cooling and refrigerant charge on the performance of a domestic refrigerator	Opeyemi, L.A.	2010	Completed	Major Supervisor
11	Evaluation of energy content of biogas from agriculture and animal residues	Adeleke, A.I.	2010	Completed	Co-Supervisor
12	Modelling design and comparative analysis of fluid and electromagnetic power systems	Bode-Olugbore, O.	2010	Completed	Co-Supervisor
13	A study on workers exposure to noise and vibration in a manufacturing company	Orelaja, O.A.	2010	Completed	Co-Supervisor
14	Computerized inventory management for a manufacturing industry	Owoeye, E.S.	2010	Completed	Co-Supervisor
15	Computer aided simulation of a refrigerating system in a food processing company	Owoyemi, T.J.	2010	Completed	Co-Supervisor
16	Water absorption kinetics of <i>ofada</i> and <i>nerica</i> rice during soaking	Adesina, B.S.	2009	Completed	Co-Supervisor
17	Evaluation of Water-Extract from Fermented Ground Maize for its Potentials as Coolants for Engine and Machining Operations	Yusuf, T.A.	2011	Completed	Major Supervision
18	Development of a Solar Box Cooker with a Hot Water Dispensing System	Omotainse, P.O.	2011	Completed	Co-Supervisor
19	Development of a battery cage installed with a drinking system	Osu, M.F.	2011	Completed	Co-Supervisor
20	Synthesis, Characterization and Optical Properties of Nanocrystalline ZnO-Dye Hybrids Usable in Solar Industries	Bada, D.A.	2011	Completed	Co-Supervisor

S/N	Title of Thesis	Name of Student	Year of Commencement	Completed /On-going	Major/ Co-Supervisor
21	Development of an Automobile Faults Diagnostic Software Using Expert System	Adeniyi, V.A.	2011	Completed	Co-Supervisor
22	Energy Analysis of a Crude Oil Distillation Unit of Nigerian Refinery	Zubairu, A.S.	2011	Completed	Co-Supervisor
23	Development of software for Determining Material Removal Rate of Various Operations on a Conventional Lathe Machine	Olopade, O.F.	2011	Completed	Co-Supervisor

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

S/N	Title of Thesis	Name of Student	Year of Commencement	Completed / On-going	Major/ Co-Supervisor
1	Performance Investigation of Nano-lubricants in Refrigeration System using Hydro-fluorocarbon (HFC) Refrigerant as Working Fluids	Oloko, G.A.	2010	On-going	Major Supervisor
2	Development of a Motorized Biomass Fuel Briquetting Machine	Oyelaran, O.A.	2009	Completed	Major Supervisor
3	Modelling and performance characterisation of solar powered absorption refrigeration system	Sangotayo, E.O.	2009	Completed	Co-Supervisor
4	In-situ trans-esterification of pycnanthus (pycnanthus Angoleusis) seeds into biodiesel using mixed methanol/ethanol system	Samuel, O.D.	2009	Completed	Co-Supervisor
5	Zero-loss grain storage and management using computer aided management	Olorunfemi, J.B.	2009	Completed	Co-Supervisor
6	Automation of Sandcrete Block Production	Akintunlaji, O.A.	2008	On-going	Co-Supervisor
7	Simulation and experimental modelling of combined ventilation and power solar chimney	Abayomi, T.L.	2011	On-going	Co-Supervisor
8	Room conditioning by water flowing through inserted pipes in attic roof for thermal Comfort in tropical region	Fakehinde, O.B.	2011	On-going	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 Saving Potential of Low-GWP R430A, R440A and R450A Refrigerants in a Domestic Refrigerator

**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*. 1<sup>st</sup> 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>
- (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.
- (16) O.A. Akinola, A.A. Akinyemi and **B.O. Bolaji** (2006): Evaluation of Traditional and Solar Fish Drying Systems towards Enhancing Fish Storage and Preservation in Nigeria: Abeokuta Local Governments as Case Study. *Journal of Fisheries International*, 1(3); 44-49, Published by Medwell Online, Pakistan. Available online at <http://www.medwellonline.net/fulltext/jfi/2006/44-49.pdf>
- (17) O.S. Olokode, **B.O. Bolaji** and O.O Ize-Balogun (2007): Effects of Process Annealing on Mechanical Properties of Strain hardened (NS 34 LC) Coiled Wire. *International Journal of Agricultural Sciences, Science, Environment and Technology* (ASSET). Series B, 6 (1); 12-20, Published by the Fed. Uni. of Agriculture, Abeokuta, Available online at <http://www.unaab.edu.ng/journal/index.php/Sciences/article/download/26/30>
- (18) **B.O. Bolaji** and M.R. Adu (2007): Design Analysis of Photovoltaic Pumping System for Rural Application in Nigeria. *International Journal of Agricultural Sciences, Science, Environment and Technology* (ASSET). Series B, 6 (2); 120-130. Published by the Federal University of Agriculture, Abeokuta, Nigeria. Available online at <http://www.unaab.edu.ng/journal/index.php/Sciences/article/download/62/66>



- (19) O.S. Olokode, **B.O. Bolaji** and P.O. Aiyedun (2008): Effects of Process Annealing on Mechanical Properties of Strain hardened Copper: A Case of Kabel Metal Nigeria Limited. *Pacific Journal of Sciences, and Technology*. 9 (2); 278-283, Published by Akamai University, USA. Available online at [http://www.akamaiuniversity.us/PJST9\\_2\\_278.pdf](http://www.akamaiuniversity.us/PJST9_2_278.pdf)
- (20) **B.O. Bolaji** (2008): Design and Performance Evaluation of a Solar Poultry Egg Incubator. *Thammasat International Journal of Science and Technology*. 13 (1); 47-55, Published by Thammasat University, Thailand. Available online at [http://www.tijsat.tu.ac.th/issues/2008/no1/2008\\_V13\\_No1\\_6.PDF](http://www.tijsat.tu.ac.th/issues/2008/no1/2008_V13_No1_6.PDF); Indexed in DOAJ; Thai Journal IF = 0.047
- (21) **B.O. Bolaji**, O.S. Olokode and A.P. Olalusi (2008): Development of a Wind-Ventilated Box-Type Absorber Solar Air Collector. *International Journal of Agricultural Sciences, Science, Environment and Technology* (ASSET). Series B, 7 (1); 18-29, Published by the Federal University of Agriculture, Abeokuta, Nigeria. Available online at <http://www.unaab.edu.ng/journal/index.php/Sciences/article/download/70/74>
- (22) **B.O. Bolaji**, S.B. Adejuyigbe and S.P. Ayodeji (2008): Performance Evaluation of a Locally Developed Cassava Chipping Machine. *South African Journal of Industrial Engineering*. 19 (1); 169-178, Published by the University of Pretoria, South Africa. Available at [http://www.journals.sabinet.co.za/abstracts/indeng\\_v19\\_n1\\_a12.xml](http://www.journals.sabinet.co.za/abstracts/indeng_v19_n1_a12.xml); Indexed in Scopus; ISI Thomson Reuters IF = 0.134
- (23) **B.O. Bolaji** and A.P. Olalusi (2008): Performance Evaluation of a Mixed-Mode Solar Dryer. *AU Journal of Technology*. 11 (4); 225-231, Published by the Assumption University, Bangkok, Thailand. Available online at [http://www.journal.au.edu/au techno/2008/apr2008/journal114\\_atticle05.pdf](http://www.journal.au.edu/au techno/2008/apr2008/journal114_atticle05.pdf)
- (24) **B.O. Bolaji** (2008): Analysis of Moisture Transport in the Solar Drying of Food Items. *Pacific Journal of Sciences, and Technology*. 9 (2) 640-646, Published by Akamai University USA. Available online at [http://www.akamaiuniversity.us/PJST9\\_2\\_640.pdf](http://www.akamaiuniversity.us/PJST9_2_640.pdf)
- (25) P.O. Aiyedun, O.A. Adeyemi and **B.O. Bolaji** (2008): Energy Efficiency of a Manufacturing Industry: A Case Study of Nigeria Eagle Flour Mills Limited Ibadan. *International Journal of Agricultural Sciences, Science, Environment and Technology* (ASSET). Series B, 7 (2); 91-103. Published by the Federal University of Agriculture, Abeokuta, Available online at <http://www.unaab.edu.ng/journal/index.php/Sciences/article/download/77/81>
- (26) **B.O. Bolaji** and A. Olalusi, (2009): Development of an Improved Coal Stove for Cooking in Developing Countries. *AU Journal of Technology*. 12 (3); 182-187, Published by the Assumption University, Bangkok, Thailand. Available online at [http://www.journal.au.edu/au techno/2009/jan09/12\(3\)5Development.pdf](http://www.journal.au.edu/au techno/2009/jan09/12(3)5Development.pdf)
- (27) **B.O. Bolaji** (2010): Effects of Sub-Cooling on the Performance of R12 Alternatives in a Domestic Refrigeration. *Thammasat International Journal of Science and Technology*. 15 (1); 12-19, Published by the Thammasat University, Thailand. Available online at [http://www.tijsat.tu.ac.th/issues/2010/no1/2010\\_V15\\_No1\\_2.PDF](http://www.tijsat.tu.ac.th/issues/2010/no1/2010_V15_No1_2.PDF); Indexed in DOAJ; Thai Journal IF = 0.047
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iv) **Chapters in Books (Peers reviewed)**

- (90) **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).
- (91) **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).
- (92) 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.

v) **Edited Conference Proceedings**

- (93) Ajueyitsi, O.N.A. and **Bolaji, B.O.** (2003). Strategies of Noise Control for Sustainable Environment in Nigeria Manufacturing Companies. *Proceedings 11<sup>th</sup> 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.
- (94) **Bolaji, B.O.** (2003). The Role of Solar Energy in the Preservation of Agriculture Products in Nigeria. *Proceedings of 11<sup>th</sup> 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.
- (95) 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 6<sup>th</sup> 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.
- (96) **Bolaji, B.O.** (2005). Performance Evaluation of a Simple Solar Dryer for Food Preservation. *Proceedings of 6<sup>th</sup> 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.
- (97) Akinola, O.A. and **Bolaji, B.O.** (2006). Sustainable Energy Technologies for Poverty Alleviation and Environmental Protection. *Proceedings of 1<sup>st</sup> National Conference of Faculty of Science, University of Abuja*, S.E. Kakulu (Ed.) 53-63. Published by Faculty of Science, Uni. of Abuja, Nigeria.
- (98) 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 2<sup>nd</sup> International Conference on Engineering Research and Development (ICERD)*, 422-430. Published by the Faculty Engineering, University of Benin, Benin City, Nigeria.
- (99) **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 9<sup>th</sup> 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.
- (100) E.S. Owoeye, S.B. Adejuyigbe, **B.O. Bolaji** and A.F. Adekoya (2012). Computerized Inventory Management for a Manufacturing Industry: Case Study in Nigeria. *Proceedings of 5<sup>th</sup> International Conference on Appropriate Technology*, 187-193. Published by the International Network on Appropriate Technology (INAT), Pretoria, South Africa.
- (101) 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.

## 22. Conferences Attended with Dates and Papers Presented

- 1) Environment and Behaviour Ass. of Nigeria, 11<sup>th</sup> Annual Conference and AGM.  
**Theme:** Challenges of Environmental Sustainability in a Democratic Government  
**Venue:** Federal University of Technology, Akure, Nigeria.  
**Date:** 26<sup>th</sup> – 28<sup>th</sup> 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) 5<sup>th</sup> 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:** 16<sup>th</sup> – 18<sup>th</sup> June, 2004.  
**Papers Read:**
  - (a) Possibility of Rural Electrification through Solar Energy in Nigeria.
  - (b) Solar Power Pumping System for Rural Water Supply.
- 3) 6<sup>th</sup> 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:** 15<sup>th</sup> – 17<sup>th</sup> June, 2005.  
**Paper Read:**
  - (a) Performance Evaluation of a Simple Solar Dryer for Food.
- 4) Nigerian Society for Environmental Management (NISEM), 2<sup>nd</sup> Annual Conference  
**Venue:** University of Agriculture, Abeokuta, Nigeria.  
**Theme:** Environmental Imperatives Sustainable Development.  
**Date:** 5<sup>th</sup> – 8<sup>th</sup> September, 2005.  
**Paper Read:**
  - (a) Vehicle Emission and its Effects on Natural Environment.
- 5) 1<sup>st</sup> 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:** 18<sup>th</sup> – 20<sup>th</sup> July, 2006.

**Paper Read:**

(a) Sustainable Energy Technology for Poverty Alleviation and Environmental Protection.

- 6) 2<sup>nd</sup> International Conference on Engineering Research & Development: Innovation

**Venue:** University of Benin, Benin City, Nigeria.

**Theme:** Engineering Research & Development

**Date:** 15<sup>th</sup> – 17<sup>th</sup> 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:** 7<sup>th</sup> – 10<sup>th</sup> 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:** 6<sup>th</sup> – 10<sup>th</sup> December, 2010.

**Paper Read:**

(a) A Unit for Reducing Vehicular Emissions in Petrol Engines.

- 9) 9<sup>th</sup> 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:** 14<sup>th</sup> – 16<sup>th</sup> August, 2012.

**Paper Read:**

(a) Energy Performance of Eco-Friendly RE170 and R510A Refrigerants as Alternatives to R134a in Vapour Compression Refrigeration System.

- 10) 4<sup>th</sup> Jordanian IIR International Conference on Refrigeration and Air Conditioning

**Venue:** University of Jordan, Amman, Jordan.

**Theme:** Refrigeration Science and Technology

**Date:** 10<sup>th</sup> – 12<sup>th</sup> September, 2012.

**Paper Read:**

(a) Experimental Investigation on Capillary Tube for a Domestic Freezer with a Mixture of R290/R600a (50/50) As a Substitute for R134a.

(b) Theoretical Analysis of the Performance of R152a and R600a as Alternative to R134a in Domestic Refrigerator.

- 11) 5<sup>th</sup> International Conference on Appropriate Technology

**Venue:** Saint George Hotel, Pretoria, South Africa.

**Theme:** Appropriate Technology for the 21<sup>st</sup> Century:

**Date:** 20<sup>th</sup> – 24<sup>th</sup> 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 – to date
- 2. Team Leader/Examiner for Metalwork. 2001 – to date
- 3. Assistant Examiner for Metalwork. 1995 – 2001
- 4. Assistant Examiner for Physics. 1994 – 1995

##### (b) Christian/Church Activities

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

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Date: September 9, 2016