

CURRICULUM VITAE

A: GENERAL INFORMATION

1. **Name:** ALAMU, Oguntola Jelil
2. **Date and Place of Birth:** 06th June, 1972; Iwo, Osun State
3. **Marital Status:** Married
4. **Names and Ages of Children:** Oguntola Abdullah (15), Oguntola Mariam (13)
Oguntola Olaide (11)
5. **Names & Relationship of Next of Kin:** Oguntola Abdullah Ayodeji (First Son)
6. **Permanent Home Address:** Oguntola House, Off Ejigbo road, Odo-Ori,
Iwo, Osun State
7. **Contact Address:** Department of Mechanical Engineering,
Osun State University, PMB 4494, Osogbo,
Nigeria
8. **Email Address:** tolasum@yahoo.com, alamuoj@uniosun.edu.ng
9. **Cell Phone Number:** +2348033858298
10. **College/Faculty:** College of Science, Engineering & Technology
11. **Department:** Department of Mechanical Engineering
12. **Position on First Appointment:** Associate Professor
13. **Present Position and Salary:** Professor
14. **Date of Present Position:** October 01, 2013

B: EDUCATIONAL BACKGROUND

1. Educational Institutions Attended

Ladoke Akintola University of Technology, Ogbomosho, Nigeria	(2003 – 2007)
University of Ibadan, Ibadan, Nigeria	(1999-2000)
Ladoke Akintola University of Technology, Ogbomosho, Nigeria	(1991 – 1996)
Baptist High School, Iwo, Osun State, Nigeria	(1983 – 1988)

2. Academic and Professional Qualifications

Ph. D Mechanical Engineering	(2007)
M. Sc. Mechanical Engineering	(2001)
B. Tech. Mechanical Engineering	(1997)
Professional Engineer: Council for the Regulation of Engineering in Nigeria (<i>COREN</i>) (<i>R.10,426</i>)	(2004)

3. Honours, Awards and Distinctions

- ✓ *Sciencedirect / Elsevier ranking Certificate*: Authored research paper (in **Fuel**) ranked one of the *top 25 most downloaded articles*.
- ✓ *Google Scholar Citations*: Records of citation of research papers published (**177** citations as at May, 2013).
- ✓ Award for distinguished professional contributions to educational administration by the *Institute of Corporate Administration*

C: WORK EXPERIENCE OUTSIDE THE UNIVERSITY SYSTEM

Osun State College of Technology, Esa – Oke, Nigeria [Adjunct Lecturer] (2002–2006)

D: WORK EXPERIENCE IN OTHER UNIVERSITIES

1. Ladoke Akintola University of Technology, Ogbomoso, Nigeria

Graduate Assistant - Lecturer II (1998 – 2004)

Taught the following undergraduate courses:

Introduction to Mechanical Engineering, Engineering Drawing, Engineering Materials, Fluid Mechanics, Fluid Mechanics Laboratory, Engineering Materials Laboratory, Metallurgy, Mineral Processing & Extractive Metallurgy, Project Supervision (Undergraduate), and Postgraduate courses including Fluid Machinery, Heat and Mass transfer.

2. Bells University of Technology, Ota, Ogun State, Nigeria

Adjunct Lecturer; Department of Physical Sciences (2006-2007)

Taught the following undergraduate courses:

Basic Engineering Drawing, Workshop Practice I

3. Olabisi Onabanjo University, Ago-Iwoye

Lecturer II – Lecturer I: (2004 - 2008)

Taught the following undergraduate courses:

Structural Mechanics, Engineering Graphics, Workshop Practice, Strength of Materials, Introduction to Mechanical Engineering, Materials Science & Engineering, Fluid Mechanics, Metallurgy, Mechanics of Metal Forming, Fluid Machinery, Energy Technology as well as Undergraduate Project supervision

Administrative Positions at Olabisi Onabanjo University, Ago-Iwoye

- Coordinator, Department of Mechanical Engineering (2007–2008)
- Pioneer Coordinator, Degree Foundation Programme (Eng.) (2004–2008)
- Held forth for Dean, Faculty of Engineering (while Dean was on leave) (2006)
- Member,
 - University Senate (2007-2008)
 - Management Board of Faculty-based FT Sub-degree Programmes (2006–2008)
 - College of Engineering Curriculum Committee (2004–2008)
 - Public Relations Committee (2004–2006)
 - Space Allocation & Campus Master-Plan Development Committee (2004–2006)
 - College Consultancy Group (Mechanical Engineer) (2004–2007)
 - Staff School Committee (2004-2008)
 - College Research and Publication Team (2007–2008)

4. University of Agriculture, Abeokuta, Nigeria

Senior Lecturer (2008-2010)

Taught the following undergraduate courses:

Introduction to Mechanical Engineering, Engineering Materials, Machine Drawing, Mechanics of Machines, Applied Thermodynamics, Strength of Materials, Energy Technology; as well as undergraduate and graduate project supervision.

🎓 Postgraduate Supervision: 6 Ph.D students; 3 Masters Students

Administrative Positions at University of Agriculture, Abeokuta

- Acting Head of Department of Mechanical Engineering (2008-2010)
- Member,
 - University Senate (2008-2010)
 - Senate Committee on Examinations Results (2010)
 - University Linkages and Partnership Group (2009-2010)

- University Admissions Committee (2008-2009)
- UNAAB Publications Committee (2009-2010)
- Promotion Assessment Panel; College of Vet. Medicine (2008-2009)
- Promotion Assessment Panel; UNAAB Works and Services (2008-2009)
- Promotion Ass. Panel; College of Food Science & Human Ecology (2009-2010)
- College Board of Engineering (2008-2010)
- College Board of Food Science and Human Ecology (2009-2010)
- College of Engineering Study and Research Committee (2009-2010)
- College of Engineering Consultancy Committee (2009-2010)
- College of Engineering Journal Publication Committee (2009-2010)
- Associate Scientist, Biotechnology Group (2009-2010)

E: WORK EXPERIENCE IN OSUN STATE UNIVERSITY

Associate Professor (2010-2013)
Professor (2013-Date)

Taught the following undergraduate courses:

Engineering Drawing, Workshop Technology, Engineering Materials, Basic Thermodynamics, Basic Fluid Mechanics and Technical Report Writing.

Administrative Functions at Osun State University, Osogbo

- Ag. Dean, Faculty of Engineering (2013-Date)
- Ag. Director, Academic Planning (2011-Date)
- Acting Head of Department of Civil Engineering (2010-2011)
- Tertiary Education Trust Fund Desk Officer for Osun State University (2011-Date)
- Chairman, Senate Committee on Examinations Results (2014-Date)
- Member of the following:
 - Search Team (Committee of Council) for appointment of Vice-Chancellor (2013)
 - University Senate (2010-Date)
 - Business Committee of Senate (2014-Date)
 - Committee of Provosts, Deans & Directors (2011-Date)
 - Appointment and Promotions Committee (2014-Date)
 - Admissions Committee (2012-Date)
 - Board of Postgraduate Studies (2014-Date)
 - Board of Centre for Human Resource Development & Lifelong Learning (2014-Date)
 - Governing Council Committee on Student Audit (2013)
 - Staff Disciplinary Panel (2010-Date)
 - Strategic Plan Committee (2010-Date)

- UNIOSUN Journals Committee (2010-Date)
- LOC (Secretary), Science, Engineering and Technology Conference (2010/2011)
- College of Science, Engineering and Tech. (SET) Research Committee (2010-Date)
- Committee on OMATEK Resource Centre (2010-Date)
- Committee on Sustainable Power Supply (2010-Date)
- Academic Staff Training and Development Committee (2010-Date)
- College of Science, Engineering and Tech. Review Panel (2010-Date)
- Schedule Officer, NUC e-Teaching and Learning Platform (2011-Date)

F: CO-CURRICULAR PROFESSIONAL EXPERIENCE

1. **Mechanical Engineer**; Construction of Degree Foundation Programme Science Laboratory, Olabisi Onabanjo University College of Engineering & Tech., Ibogun
2. **Mechanical Engineer**; Construction of Physiology Laboratory Building for the Obafemi Awolowo College of Health Sciences Teaching Hospital, Ikene-Remo
3. **Consulting Mechanical Engineer**; Construction of Olusegun Obasanjo Engineering Complex; - ETF Project for OOU College of Eng. & Tech. Ibogun
4. **Mechanical Engineer**; Construction of Academic Staff Union of Universities (ASUU) Secretariat Complex of Olabisi Onabanjo University, Ago-Iwoye

G: MEMBERSHIP OF PROFESSIONAL BODIES

1. Registered Engineer: Council for the Regulation of Engineering in Nigeria (*COREN*) (*R.10,426*) (2004)
2. Member, Nigerian Society of Engineers (*NSE*) (*14943*) (2004)
3. Member, Nigeria Institution of Mechanical Engineers (NIMechE) (*A00105*) (2006)
4. Member, Nigeria Institute of Management (NIM) (*84624*) (2006)
5. Member, Council for Renewable Energy in Nigeria (CREN) (2007)
6. Member, African Wind Energy Association (AFRIWEA) (*364*) (2007)
7. Fellow, Institute of Corporate Administration (FCAI) (2012)
8. Member World Academy of Science, Engineering and Technology (WASET) (2012)

H: SERVICE

(i) University

1. Senate representative on Search Team (Committee of University Governing Council) for appointment of Vice-Chancellor
2. Developed the Curriculum for B. Eng. Mechanical Engineering programme.
3. Member, ASET Journal Publication Committee
4. Focal Group Leader on Development of Uniosun Strategic Plan (2011-2016)

5. Secretary, Local Organizing Committee of Science, Engineering & Technology Conference (SETCONFERENCE 2011)
6. As the Ag. Director, Academic Planning;
 - a. processed and obtained the NUC approval for commencement of twelve (12) new undergraduate programmes between 2011 and 2014.
 - b. successful accreditation of all the academic programmes that are matured for accreditation by the National Universities Commission (NUC). With the 2012 accreditation exercise, the University had a record 100% Full Accreditation Status with only LLB on Interim accreditation.
 - c. Full professional accreditation of programmes by COREN and TOPREC
7. As the TETFund Desk Officer;

processed Academic Staff Training and Development (AST&D), Research and Conference Attendance Intervention of TETFund, **leading to the award** of the under-listed grants:

 - d. ₦61,950,000.00 for higher degree training of 27 academic staff (International and local)
 - e. ₦72,837,221.00 for overseas short courses and higher degree training of 16 academic staff
 - f. ₦16,163,680.00 Research grants for 12 different Research proposals
 - g. ₦24,696,519.55 Learned Conference and Workshop Attendance grants for 22 academic and 16 Non-teaching staff (2010/2011).
 - h. ₦36,121,913.34 Learned Conference and Workshop Attendance grants for 48 staff (2011/2012).
8. Served as a member of Investigating Committee on Destruction caused by Windstorm to University Buildings on 14th/15th April, 2013.
9. Served as a member of Governing Council Committee on Student Audit.

(ii) **Community**

1. Advisory Committee member, Nigeria Institute of Biomedical Engineering
2. Facilitator, Osun CSDP Community Development Project for Lagada Estate, Zone 4, Service Area, Osogbo

(iii) **National**

1. Participant at the National Science, Technology and Innovation (STI) Policy Review held at Obafemi Awolowo University, Ile-Ife in 2011
2. Osun State University Schedule Officer for the National Universities Commission (NUC) Electronic Teaching and Learning Platform
3. Desk Officer, Tertiary Education Trust Fund (TETFund)

(iv) **International**

1. Member, Scientific Committee & Editorial Review Board on Engineering and Physical Sciences of the World Academy of Science, Engineering and Technology (WASET)
2. **Reviewer**; Elsevier Journals
3. **Reviewer**; Journal of Science, Engineering and Technology, Taylors University College, Malaysia (<http://www.taylors.edu.my>)
4. **Reviewer**; Scientific Research and Essay
5. **Reviewer**; Journal of Applied Science, Malaysia
6. **Reviewer**; Journal of Applied Agricultural Research
7. **Reviewer**; Renewable & Sustainable Energy Review

I: COURSES TAUGHT DURING THE CURRENT ACADEMIC SESSION

<i>S/N</i>	<i>Course Code</i>	<i>Course Title</i>	<i>Units</i>
1	MEE 101	Engineering Drawing I	2
2	MEE 103	Introduction to Mechanical Engineering	1
3	MEE 201	Engineering Materials	2
4	MEE 206	Basic Fluid Mechanics	2
5	CVE 401	Technical Report Writing	2

J: GRADUATE STUDIES SUPERVISION

Masters Project Supervision (3 nos. at the University of Agriculture, Abeokuta)

- (1) Name of Candidate: Openibo, Adesola Oluremi
 Project / Thesis Title: Correlation between Sunshine Hours and Global Solar Radiation in Abeokuta, South West, Nigeria
 Completed / Ongoing: Completed
 Year of Completion: 2011
- (2) Name of Candidate: Akintaro, Adekunle Omoniyi
 Project / Thesis Title: Investigating the Performance of a hawking cooler refrigerator retrofitted with R134a
 Completed / Ongoing: Completed
 Year of Completion: 2011
- (3) Name of Candidate: Owoeye, Samuel Olufemi
 Project / Thesis Title: Assessment of Wind Energy Potential in Nigeria

Completed / Ongoing: Completed
 Year of Completion: 2011

Ph.D Supervision (6 nos. at the University of Agriculture, Abeokuta)

- | | | |
|-----|-------------------------|--|
| (1) | Name of Candidate: | Olokode, Sunday |
| | Project / Thesis Title: | Kaolinitic Characterization of selected Clay Deposits of Abeokuta, South West Nigeria for suitability as Porcelain Stoneware Tiles |
| | Completed / Ongoing: | Completed |
| | Year of Completion: | 2010 |
| | | |
| (2) | Name of Candidate: | Adetunji, R. O. |
| | Project / Thesis Title: | Evaluation of Corrosion Performance of some Metallic Materials in three Liquid Media |
| | Completed / Ongoing: | Completed |
| | Year of Completion: | 2012 |
| | | |
| (3) | Name of Candidate: | Adeleke, Ademola Ezra |
| | Project / Thesis Title: | Design, Simulation and Construction of a Prototype Distillation Unit of a Bio ethanol Plant using Cassava as Feedstock |
| | Completed / Ongoing: | Completed |
| | Year of Completion: | 2012 |
| | | |
| (4) | Name of Candidate: | Sulaiman Musediq Adedoyin |
| | Project / Thesis Title: | Energy and Exergy Analysis of the Performance of Electrical Power Plants in Nigeria |
| | Completed / Ongoing: | Ongoing |
| | Year of Completion: | Expected; 2014 |
| | | |
| (5) | Name of Candidate: | Adekunle, Nurudeen A. |
| | Project / Thesis Title: | Thermodynamic Properties of Locally Manufactured Aluminium Products in Nigeria |
| | Completed / Ongoing: | Ongoing |
| | Year of Completion: | Expected; 2014 |
| | | |
| (6) | Name of Candidate: | Samuel, Olusegun David |
| | Project / Thesis Title: | Development and Characterization of Biodiesel from Castor Bean oil |
| | Completed / Ongoing: | Ongoing |

Year of Completion: Expected; 2014

K: PUBLICATIONS

(i) Articles in Learned Journals

(a) *Published Journal Articles*

Main Research Focus : Thermofluids & Energy Studies

1. **O. J. Alamu** and S. O. Jekayinfa (2002). Effect of pipe dimension on optimum temperature for pipeline conveyance of incompressible viscous fluids. *The Nigerian Academic Forum*. 2(2): 33 – 43
2. Taiwo, A.A. and **O.J. Alamu** (2003). Optimization of insulation thickness for heat transfer equipment. *International Journal of Environmental Issues*. 11(2):120-127. (Nigeria)
3. **Alamu, O.J.** and Durowoju, M.O. (2003). Effect of conduit dimension on economic pipeline distribution of highly viscous liquids. *Journal of Applied Sciences*. 6(2): 3651 – 3661. (Nigeria)
4. T. A. Akintola, K. A. Babatunde and **O. J. Alamu** (2003) Computation of Economic Pipe Diameter for Laminar Flow. *International Journal of Environmental Issues* 1(1): 203-214. (Nigeria)
5. **Alamu, O. J.**, Akintaro, A. O. and Adigun, O. J. (2003). Effect of regional temperature variation on optimum cooling water flow rate in condenser. *Journal of Science and Technology Research*. 2(4): 65 – 70. (Nigeria)
6. **O. J. Alamu**, A. A. Adekunle and G. A. Odewole (2003). Effect of fluid density on optimum design of pipes for engineering applications. *Nigerian Journal of Engineering Management, Federal University of Technology, Akure*. 4(3):58–62.
7. S. O. Jekayinfa, **O. J. Alamu** and O. J. Adigun (2003). Simulation of energy requirement for in – store drying of cereal grains in Nigeria. *Journal of Applied Science and Technology, University of Ibadan*. 3(1): 19-24. (Nigeria)
8. **O. J. Alamu** and A. Taiwo (2004). Evaluation of density variation with economic pipe size for laminar flow. *Journal of Applied Science*. 7(2): 4094-4103. (Nigeria)

9. Akintaro, A.O. and **Alamu, O. J.** (2004). The influence of thermal conductivity on the optimum thickness of fire – clay for local oven. *Journal of Science, Engineering and Technology*. 11(3): 5819 – 5830. (Nigeria)
10. **Alamu, O. J.**, Adekunle, A. and Idowu, O. (2004). Development of empirical relationship between optimum pipe diameter and fluid viscosity for streamline flows. *Science Focus* (8): 34-41. (Nigeria)
11. **Alamu, O.J.**, Waheed, M.A. and Jekayinfa, S.O. (2007). Alkali-catalysed laboratory production and testing of biodiesel fuel from Nigerian palm kernel oil. *CIGR Journal: International Commission of Agricultural Engineering*. EE 07 009. Vol. IX. (Texas A & M University)
12. **Alamu, O.J.**, Waheed, M.A. and Jekayinfa, S.O. (2007). Biodiesel production from Nigerian palm kernel oil: effect of KOH concentration on yield. *Energy for Sustainable Development* (Elsevier). XI(3):77-82. (Amsterdam, The Netherlands)
13. **Alamu, O.J.** (2007). Development and evaluation of palm kernel oil biodiesel fuel. *Pacific Journal of Science and Technology*. 11(2):90-97. (USA)
14. **Alamu, O.J.** (2007). Production and testing of environmental-benign renewable fuel for diesel engines. *Olabisi Onabanjo University Journal of Environmental Technology* 1(1&2):90-96. (Nigeria)
15. **Alamu, O.J.**, Waheed, M.A., Jekayinfa, S.O. and Akintola, T.A. (2007). Optimal transesterification duration for biodiesel production from Nigerian palm kernel oil. *CIGR Journal: International Commission of Agricultural Engineering*. EE 07 018. Vol. IX. (Texas A & M University).
16. **#Alamu, O.J.**, Waheed, M.A. and Jekayinfa, S.O. (2007). Effect of ethanol-palm kernel oil ratio on alkali-catalysed biodiesel yield. *Fuel; The Science and Technology of Fuel & Energy* (Elsevier). 87(8-9): 1529-1533. (The Netherlands)
17. **O. J. Alamu**, T. A. Akintola, C. C. Enweremadu and A. E. Adeleke (2008). Characterization of palm-kernel oil biodiesel produced through NaOH-catalysed transesterification process. *Scientific Research and Essay* 3(7), 308-311. (Malaysia)
18. **Alamu, O.J.**, Waheed, M.A. and Jekayinfa, S.O. (2009). Determination of optimum temperature for the laboratory preparation of biodiesel from Nigerian palm kernel oil. *Energy Sources, Part A* 31(13):1105–1114. (Taylor and Francis, England)

19. **O. J. Alamu**, A. E. Adeleke, N.O. Adekunle and S.O. Ismaila (2009). Power and torque characteristics of diesel engine fuelled by palm kernel oil biodiesel; *Leonardo Journal of Sciences*. 14(8):66-73. (Romania)
20. **O. J. Alamu**, C. N. Nwaokocha and O. Adunola (2010). Design and construction of a domestic passive solar food dryer. *Leonardo Journal of Sciences* 16:71-82, (Romania)
21. Akintola, T.A. and **O.J. Alamu** (2010). Application Potentials and Sustainability of Solar Energy in Nigeria. *Pacific Journal of Science and Technology*. 11(2):132-138. (USA)
22. **O. J. Alamu**, O. Dehinbo and M. A. Sulaiman (2010). Production and testing of coconut oil biodiesel fuel and its blend. *Leonardo Journal of Sciences*. 16:95-104 (Romania)
23. Enweremadu, C.C. and **Alamu, O.J.** (2010). Development and characterization of biodiesel from shea nut butter. *International Journal of Agrophysics, Polish Academy of Sciences*, 24:29-34. (Poland)
24. Dairo, O.U., Olayanju, T.M.A., Ajisegiri, E.S.A., Awonorin, S.A., and **Alamu, O.J.** (2011), The influence of catalyst amount and alcohols seed ratio on production of biodiesel from raw castor oil bean seed using in-situ technique. *LAUTECH Journal of Engineering and Technology* 6(2): 45 -52. (Nigeria)
25. **Alamu, O.J.** (2011) Correlation between Specific Gravity and Temperature for Palm Kernel Oil Biodiesel, *Annals of Science, Engineering and Technology, Osun State University, Osogbo*, 1(1): 1-7. (Nigeria)
26. Bolaji, B.O., Akintaro, A.O., **Alamu, O.J.** and Olayanju, T.M.A. (2012) Design and Performance Evaluation of a Cooler Refrigerating System working with Ozone Friendly Refrigerant, *The Open Thermodynamics Journal* 6: 25-32, (Bassum, The Netherlands)
27. Adeleke A.E., **Alamu, O.J.**, Olawale, A.O., Aiyedun, P.O. and Dairo, O.U. (2012) Parametric study of the effects of relative volatility of feed on design of distillation column of bioethanol plant using cassava as feedstock, *Transnational Journal of Science and Technology*, 2(11):74-88 (Marcedonia)
28. **Alamu, O.J.** and Adebisi, S.A. (2012). Effect of NaOH Concentration on Yield of Palm kernel Oil Biodiesel, *Annals of Science, Engineering and Technology, Osun State University, Osogbo*, 2(1): 137-144

29. S.O. Odeyale, **O.J. Alamu**, E.O. Odeyale and A.M. Sulaiman (2013). Modeling of a power Plant by Integration of Solar Combined Cycle System: A Case Study, *Pacific Journal of Science and Technology*. 14(2):89-101. (USA)
 30. Dairo O.U., Olayanju T.M.A., Ajisegiri E.S.A., **Alamu O.J.** and Adeleke A.E. (2013) Optimization of in-situ Biodiesel Production from Raw Castor Oil-Bean Seed. *Journal of Energy Technologies and Policy* 3(13):14-19 (USA)
 31. A.E. Adeleke, P.O. Aiyedun, **O.J. Alamu**, O.U. Dairo and S.O.A. Olawale (2013) Development of software for the design of distillation column of a bioethanol-water system using McCabe-Thiele method. *Annals of Science, Engineering and Technology, Osun State University, Osogbo* 3(1):23-32
 32. Olatona, G.I. and **Alamu, O.J.** (2013). Determination of Economic thickness of Insulation of local hemispherical clay-pot. *Scientific Research and Essays*. 8(21): 953-959. (Malaysia)
 33. A.E. Adeleke, P.O. Aiyedun, **O.J. Alamu**, O.U. Dairo and S.O.A. Olawale (2013) Effect of mole fraction of the most volatile component in the bottom on the design of distillation column of a bioethanol-water system: A simulation study. *Annals of Science, Engineering and Technology, Osun State University, Osogbo*. 3(1):33-41
- Heat Transfer in Materials*
34. **O. J. Alamu**, and P. O. Aiyedun (2003). The influence of ingot geometry on temperature distribution in HCSS316 during hot rolling. *LAUTECH Journal of Engineering and Technology*. 1(1): 47 - 63. (Nigeria)
 35. **O. J. Alamu** and P. O. Aiyedun (2003). A comparison of temperature distribution in hot rolling at low and high strain rates. *Journal of Science, Engineering and Technology*. 10(1): 4644 - 4654. (Nigeria)
 36. **O. J. Alamu**, A. O. Akintaro and P. O. Aiyedun (2003). Effect of slab geometry on Zener – Hollomon parameter in HCSS316 during hot rolling, *Nigerian Journal of Mechanical Engineering, University of Ado - Ekiti* 1(1): 23 – 36
 37. **O. J. Alamu**, P. O. Aiyedun, M. A. Waheed and S. F. Olatoyinbo (2004) Simulation of Type316 Stainless Steel Deformation During Hot Rolling, Using the Zener – Hollomon Parameter. *LAUTECH Journal of Engineering and Technology*, 2(1):47 – 55. (Nigeria)
 38. **O. J. Alamu**, P. O. Aiyedun, A. Kareem and M. A. Waheed (2007). Effect of AISI 316 stainless steel geometry on temperature distribution during hot rolling at

high reduction” in *Advanced Materials Research -Advances in Materials and System Technologies*, Vols. 18-19, pp. 195-200. (Switzerland)

39. O.O. Akinyemi and **O.J. Alamu** (2009) Effect of 0.05M NaCl on corrosion of coated reinforcing steels in concrete. *Pacific Journal of Science and Technology*. 10(1):462-471. (USA)
40. **O.J. Alamu**, P.O. Aiyedun and N.O. Adekunle (2009). Effect of pass reduction on rolling parameters using reverse sandwich model integrated into the hot rolling Bland and Ford’s theory. In *Advanced Materials Research -Advances in Materials and System Technologies II*, Vols. 62-64, pp. 385-392. (Switzerland))
41. Aiyedun P.O., Nwaneto F.N, Adeleke A.E. and **Alamu.O.J.** (2010) Yield Strength Estimation For Stainless Steel Using Plane Strain Compression Test, *Australian Journal of Basic and Applied Sciences*, 4(12): 6312-6318. (Jordan)
42. O.S. Olokode, P.O. Aiyedun, G.O. Oluwadare, **O.J. Alamu**, S.O. Fakolujo and W.E. Lee (2010) Characterization of Ajebo Clay in South West Nigeria. *Journal of Natural Science, Engineering and Technology* 9(2):50-59 University of Agriculture, Abekuta (Nigeria)
43. Odeyale, S.O., **Alamu, O.J.** and Odeyale, E.O. (2013) The Analytical Hierarchy Process Concept for Maintenance Strategy Selection in Manufacturing Industries. *Pacific Journal of Science and Technology*. 14(1):223-233. (USA)
44. Okediran, I.K., **Alamu, O.J.** and Durowoju, M.A. (2013). A Study of Zener – Hollomon parameter variation with Pass Reduction in Steel Rolling, *International Journal of Engineering Science Invention* 2(12): 59 – 69
45. Odeyale, S.O., **Alamu, O.J.** (Oguntola Alamu Jelil) and Odeyale, E.O. (2013) Evaluation and Selection of an Effective Green Supply Chain Management Strategy: A Case Study. *International Journal of Research Studies in Management*. 1-14
46. **Alamu, O.J.** and Okediran, I.K. (2013) Computer Simulation of Deformation in HCSS316. *Annals of Science, Engineering and Technology, Osun State University, Osogbo* 3(1):1-12
47. Okediran, I.K. and **Alamu, O.J.** (2014). Simulation of temperature distribution in hot flat rolling at low strain rates *International Journal of Scientific Engineering and Research*, 2(3): 56-61.

(b) Papers Accepted for Publication:

48. Olokode, O.S., Aiyedun, P.O., Oluwadare, G.O., **Alamu, O.J.**, Fakolujo, S.O. and Lee, W.E. (2011) The use of Nigerian Clay in Porcelain Stoneware Formulations. *Journal of Emerging Trends in Engineering and Applied Sciences*
49. Dairo, O.U, Olayanju, T.M.A., Ajisegiri, E.S.A., Awonorin, S.O., and **Alamu, O.J.** (2012). Effect of temperature and percentage of Initial catalyst on the *in-situ* production of biodiesel from castor oil bean seed using response surface methodology. ASSET. University of Agriculture, Abeokuta. Series B. Vol. 10 (1)
50. Dairo, O.U, Olayanju, T.M.A., Ajisegiri, E.S.A., Awonorin, S.O., and **Alamu, O.J.** (2012). Influence of initial catalyst quantity and reaction time on *in-situ* production of biodiesel from castor oil bean seed using response surface methodology. ASSET. University of Agriculture, Abeokuta. Series B. Vol. 10 (1)
51. Odeyale, S.O., **Alamu, O.J.** and Odeyale, E.O. (2013) Performance Evaluation and Selection of Best Mode of Transportation in Lagos State Metropolis. *International Journal for Traffic and Transport Engineering*

(ii) **Refereed Conference Proceedings**

52. **O. J. Alamu**, P. O. Aiyedun, A. Kareem and M. A. Waheed (2006) “Effect of AISI316 Stainless Steel Geometry on Temperature Distribution During Hot Rolling at High Reduction” *Proc. International Conference on Engineering Research & Development Impact on Industry*; University of Benin, Benin City, Nigeria (5th – 7th September, 2006), pp. 93-97.
53. **O.J. Alamu** and P.O. Aiyedun (2008) “Effect of Pass Reduction on Rolling Parameters using Reverse Sandwich Model Integrated into the Hot Rolling Bland and Ford.s Theory” *Proc. 2nd International Conference on Engineering Research & Development Innovations*, University of Benin, Benin City, Nigeria (15th - 17th April, 2008), pp.449-456
54. Olokode, O.S., Aiyedun, P.O., Oluwadare, G.O., **Alamu, O.J.**, Fakolujo, S.O. and Lee, W.E. (2010) Mineralogical Characteristics of Natural Kaolins from Abeokuta South West Nigeria. *Proc. International Conference on Engineering Research & Development Innovations*, University of Benin, Benin City, Nigeria (7th - 9th September, 2010), pp.925-940
55. **Alamu, O.J.** (2012) Development of Empirical Relationship between Specific Gravity and Temperature for Palm Kernel Oil Biodiesel, *Proc. Energy Technology and Management Conference (ETMCon 2012) University of Ibadan*, Nigeria

(iii) ***Manuscripts Submitted for Publication***

1. Babatunde, K.A., **Alamu, O.J.**, Alade, A.O., Waheed M. A., and Olabiyisi S. O. (2012) Comparative study on the effects of catalyst types on fuel properties of biodiesel produced from new oil seed, *Fuel (Elsevier)*
2. Giwa, S.O., Chuah, L. A., Adam, N.M., **Alamu, O.J.** and Akintola, T.A. (2012). Predicting the potential of melon seed oils as diesel fuel substitute. *Energy for Sustainable Development*
3. **Alamu, O.J.** and Nwaokocha, C.N. (2012) Performance evaluation of a domestic passive solar food dryer, *Journal of Engineering, Science and Technology*
4. Dairo O.U., Olayanju T.M.C., Ajisegiri E.S.A., **Alamu O.J.** and Adeleke A.E. (2013) Insitu production of biodiesel from raw castor bean seed: interactive effect of reaction temperature, catalyst amount and alcohol seed ratio. *LAUTECH Journal of Engineering and Technology*

(iv) **Technical Reports**

O. J. Alamu (2003) “Engineering Experience and Professional Training”
Technical Report Submitted to the Council for Regulation of Engineering in
Nigeria, (**COREN**)

L: CURRENT RESEARCH ACTIVITIES

- Utilization of biomass as biofuel energy sources
- Biodiesel production from non-edible renewable agricultural feedstock
- Energy efficiency of commercial and industrial buildings in Nigeria
- Correlation between sunshine hours and global solar radiation in Nigeria
- Micro-hydro energy resource in Osun State, Nigeria
- Wind energy resource in Osun State, Nigeria
- Simulation of bioethanol-water system
- Optimization of biodiesel production from non-edible agricultural feedstock

M: CONFERENCES ATTENDED

- (1) Manufacturing Technology and Engineering in Developing Economy, 1st Annual National Conference, Department of Mechanical Engineering, University of Uyo, Uyo, Nigeria. (May, 2001)
Paper Presented:- Computer Simulation of the Optimum Thickness of Thermal Insulation for a Local Fire-Clay Oven.
- (2) 3rd Annual Engineering Conference, Federal University of Technology, Minna, Nigeria. (October, 2001).
Paper Presented:- Simulation of Economic Thickness of Local Fire-Clay Pot.
- (3) 24th Annual Conference, Nigerian Mathematical Society (NMS); Department of Mathematical Sciences, Olabisi Onabanjo University, Ago-Iwoye, Nigeria. (12th – 15th April, 2005).
Paper Presented: “Modeling and Simulation of Hot Rolling Deformation of HCSS316” Book of Abstract Pg. 16 – 17
- (4) 2nd Annual National Conference, School of Preliminary Studies, Tai Solarin University of Education, Ijagun, Ijebu-Ode, Nigeria (23rd – 26th May, 2005)
Paper Presented: The Role of Information Technology in Global Education.
- (5) First Annual Conference, Science and Technology Forum on *Science and Technology for Sustainable Development*, University of Uyo, Akwa-Ibom State, (November 16 – 17, 2005)
Paper presented: “Simulation of Zener-Hollomon Parameter in Hot Rolling of AISI316 using the Reverse Sandwich Model”
- (6) 14th Engineering Assembly – Council for the Regulation of Engineering in Nigeria.
Theme: “Engineering Education, Practice and Regulation: The Nigerian Situation”, 20th – 21st September, 2005. International Conference Centre, Abuja.
- (7) The International Conference on Engineering Research & Development Impact on Industry; University of Benin, Benin City, Edo State (5th–7th Sept., 2006)
Paper presented: “Effect of AISI 316 Stainless Steel Geometry on Temperature Distribution during Hot Rolling at High Reduction”
- (8) 39th National Engineering Conference and AGM of the Nigeria Society of Engineers tagged “Gateway 2006”

Theme: “Technological and National Content Development for Economic Self-Reliance”. NSE, 4th – 8th December, 2006. June 12 Cultural Centre, Abeokuta.

- (9) 1st National Workshop on National Infrastructural Development and Industrialization: Prospects and Challenges; Osun State College of Technology, Esa-Oke (27th – 29th November, 2007)

Paper presented: “Optimal Transesterification Duration for Biodiesel Production from Palm Kernel Oil” Book of Abstract Pg. 8

- (10) The International Association of Science and Technology for Development (IASTED) International Conference on Power and Energy Systems (AsiaPES 2008) (2nd – 4th April, 2008), Langkawi, Malaysia:

Paper presented: Production and Characterization of Biodiesel from Nigerian Palm kernel oil. Paper 606-108

- (11) 2nd International Conference on Engineering Research & Development Innovations (15th - 17th April, 2008), Benin City, Nigeria:

Paper presented: Effect of Pass Reduction on Rolling Parameters using Reverse Sandwich Model Integrated into the Hot Rolling Bland and Ford’s Theory Proceedings. Pp.449-456

- (12) Humboldt-Kolleg International Conference (Humboldt-Kolleg Ogbomoso 2010) held at the Ladoke Akintola University of Technology, Ogbomoso on the theme “Building a non-oil export based economy for Nigeria - the potential of value-added products from agricultural residues” (Jan.11-14,2010)

Papers presented:

- a. O.U. Dairo, A.A. Ajisegiri, T.M.A. Olayanju, **O.J. Alamu** and O.O. Awonorin (2010). Optimization of insitu biodiesel production from raw castor oil-bean seed using response surface methodology. Book of Abstract Pg. 21
- b. O.U. Dairo, **O.J. Alamu**, T.M.A. Olayanju, E.S.A. Ajisegiri and O.O. Awonorin (2010). Optimization of insitu biodiesel production from raw castor oil-bean seed using response surface methodology. Book of Abstract Pg. 22

- (13) International Conference on Engineering Research & Development Innovations University of Benin, Benin City, Nigeria (7th - 9th September, 2010)

Paper presented:

Olokode, O.S., Aiyedun, P.O., Oluwadare, G.O., **Alamu, O.J.**, Fakolujo, S.O. and Lee, W.E. (2010) Mineralogical Characteristics of Natural Kaolins from Abeokuta South West Nigeria. *Proc. International Conference on Engineering Research & Development Innovations*, University of Benin, Benin City, Nigeria (7th - 9th September, 2010), pp.925-940

- (14) Science, Engineering and Technology Conference (SETCONFERENCE 2011) held in Osun State University, Osogbo on theme “Science, Engineering and Technology for Enhanced National Production and Development: Going beyond Theories” (March 15-18, 2011)

Papers presented:

- a. Babatunde, K. A., Alade, A.O., Olabode F.I., Agunlejika, E.O. and **Alamu, O.J.** (2011) The Development and Evaluation of African Star Apple Seed Oil for Biodiesel Production. Book of Abstract Pg. 59
 - b. Sangotayo, E.O., Waheed, M.A. and **Alamu, O.J.** (2011) Parametric Study of Thermal Performance of Cylindrical Parabolic Trough Solar Collector in Ogbomoso Environs. Book of Abstract Pg. 20
 - c. **Alamu, O.J.**, Ibirinke, A.A. and Opayemi, A.O. (2011) Production of Biodiesel from Castor Oil Seed using Transesterification Process. Book of Abstract Pg. 22
 - d. Openibo, O.A., **Alamu, O.J.**, Bolaji, B.O. and Kuye, S.I. (2011) Correlation between Sunshine Hours and Global Solar Radiation for Abeokuta, South West, Nigeria. Book of Abstract Pg. 28
- (15) National Science, Technology and Innovation (STI) Policy Review held at the National Centre for Technology Management (NACETEM) Conference Hall, Obafemi Awolowo University, Ile-Ife (25th March, 2011).
- (16) 12th National Conference of Nigerian Institute for Biomedical Engineering held at the Osun State University, Osogbo (November 3-5, 2011)
- (17) 10th Annual Materials Congress (NIMACON-2011) held at the Engineering Materials Development Institute (EMDI), Akure, Nigeria on theme “Materials Processing for Sustainable Environment and National Development” (November 21-24, 2011)

Papers presented:

- a. Adetunji, O.R., Aiyedun, P.O., Arowolo, T.A. and **Alamu, O.J.** (2011) Characterization of Vacuum Thermally Deposited Aluminium Zinc Nano Thin Film. Book of Abstract Pg. 25
- b. Adetunji, O.R., Aiyedun, P.O., Arowolo, T.A. and **Alamu, O.J.** (2011) Corrosion Performance of Aluminium Zinc Alloy Coated Steel in Cassava Juice, Maize Pulp and Sea Water Solution. Book of Abstract Pg. 69.

- (18) 2012 Annual Conference of the Institute of Strategic Management, Nigeria on the theme “Strategies for Enhancing Positive Values for National Development held in Osogbo (4th – 6th July, 2012)
- (19) 21st Engineering Assembly – Council for the Regulation of Engineering in Nigeria.
Theme: “Engineering Capacity Integrity and National Transformation” held at the International Conference Centre, Abuja, Nigeria (4th – 5th September, 2012)
- (20) Energy Technology and Management Conference (ETMCon 2012) on the theme “Energy Technology and Management for sustainable development” University of Ibadan, Nigeria (5th – 7th September, 2012)

Paper presented:

Alamu, O.J. (2012) Development of Empirical Relationship between Specific Gravity and Temperature for Palm Kernel Oil Biodiesel,

- (21) 25th Annual General Meeting and International Conference – The Nigerian Institutions of Mechanical Engineers.
Theme: “Appropriate Energy mix for Sustainable National Development” held at Enugu, Nigeria (17th – 19th October, 2012).
- (22) Nigerian Materials Congress 2012, organized by the Materials Science and Technology Society of Nigeria at Ile-Ife, Nigeria (20 – 24 November, 2012)

Paper (Poster) presented:

Adetunji, O.R., Aiyedun, P.O., Arowolo, T.A. and **Alamu, O.J.** (2012) Modeling and Simulation of the Corrosion Performance of Aluminium Zinc coated steel in some selected media. (Poster presentation)

- (23) International Conference on Energy, Water and Environment (ICEWE 2012) organized by World Academy of Science, Engineering and Technology (WASET) Penang, Malaysia (06 -07 December, 2012)
- (24) Capacity Building Workshop on Development of Institutional 5-Year Strategic Plan & 2-Year Operational Plan organized by the Tertiary Education Trust Fund at Parklane Hotel, Akure, Nigeria (18 – 19 December, 2012)
- (25) Online Universities Programme Accreditation Portal and the Nigerian University System Management Portal (NUSMAP) Training Workshop organized by the National Universities Commission at the University of Benin, Nigeria (7 – 9 April, 2013)

- (26) Training Workshop on Fraud Detection and Prevention organized by the Centre for Economic Reform Initiative at Hotel Millenium, Wuse Zone 5, Abuja (7th -9th May, 2013)
- (27) 4th International Conference on Mechanical, Production and Automobile Engineering (ICMPAE'2013) organized by the Planetary Research Centre at Holiday Inn Hotel, Dubai, United Arab Emirate (06 -07 October, 2013)
- (28) International Conference on Sustainable and Renewable Energy Engineering (ICSREE 2013) organized by World Academy of Science, Engineering and Technology (WASET) held at Crown Plaza, Deira, Dubai, United Arab Emirate (22 - 23 October, 2013)
- (29) 7th Pan-Commonwealth Forum on Open Learning (PCF7), held at the International Conference Centre, Abuja (2 - 6 December, 2013).
- (30) Training workshop on HORIZON 2020 - a new EU funded project organized by The National Office for Technology Acquisition and Promotion (NOTAP) and Network for the Coordination and Advancement of Sub-Sahara African-EU Science & Technology (CAAST-Net Plus) held at the Conference Hall, Committee of Vice Chancellors of Nigeria Universities (CVCNU), Abuja (12 - 13 December, 2013).

N: EXTRA-CURRICULAR ACTIVITIES

Poetry

O: ANY OTHER RELEVANT INFORMATION

Nil

P: SUMMARY OF CONTRIBUTION TO KNOWLEDGE

My major research focus is Thermo-fluids and Energy studies. I have made a few contributions to knowledge in the area of Engineering economy in pipe flow and heat transfer problems, Simulation of hot rolling of HCSS316, and more prominently in Biodiesel potentials of Nigerian palm kernel oil (PKO) and characterization of a few non-edible oil crops as Biofuel.

Dr. ALAMU, Oguntola Jelil



02 January, 2014

NAME

SIGNATURE

DATE