

PROFESSOR OMOLE AYODEJI OLUDARE

- I. **Name: (underline surname)** Ayodeji Oludare Omole
Date of Birth: 6 March 1970
Department: Forest Resources Management,
University of Ibadan, Ibadan,
Nigeria.
- II. (a) **Academic Appointment: (with date)** Assistant Lecturer: 8 Dec. 1997
(b) **Present Appointment: (with date)** Professor : 1 Oct. 2015
- III. **University Education (with dates)**
(a) Federal University of Technology Akure 1988 to 1994
(b) University of Ibadan 1995 to 1997
(c) University of Ibadan 1997 to 2000
- IV. **Academic Qualifications: (with dates and granting bodies)**
(a) B.Tech. (Hons) Akure (Forestry and Wood Technology) 1994
(b) M.Sc. Ibadan (Wood Products Engineering) 1997
(c) Ph.D. Ibadan (Wood Products Engineering) 2000
- V. **Professional Qualification and Diplomas**
- VI. **Scholarships, Fellowship and Prices (with dates)**
Visiting Scholar, Njala University, Sierra Leone 2009/2010
Visiting Scholar University of Uyo, Uyo Nigeria 2010/2011
- VII. **Honours, Distinctions and Membership of Learned Societies**
(a) Member, Nigeria Fields Society
(b) Members, Material Society of Nigeria
(c) Member, Forest and Forest Products Society of Nigeria
(d) Member, Commonwealth Forestry Association, UK
(e) Member, Society for Wood Science and Technology
(f) Member, Forest Products Society, USA
- VIII. **Details of Teaching Experience at University Level**
Undergraduate Courses
(i) FRM 319 – Forest and Range Operations 1 1997 to date
(ii) FRM 451 – Elementary Ground Survey 1998 to date
(iii) FRM 458 – Forest Operations II 1998 to date
(iv) FRM 524- Processing and Utilization of Forest Produce 2012 to date
Postgraduate Courses
(i) FOR 774: Adhesion and Wood Products 2002 to date
(ii) FOR 776: Advanced Forest Operations 2002 to date
(iii) MAF 725: Produce Harvesting in Agroforestry 2004 to date

IX. **Research Completed**

- (i) Effect of Harvesting Methods on Logging Productivity in Gmelina Plantation. *The objective of the study was to compare productivity in reduced impact logging (RIL) and conventional logging system (CLS) in an even age plantation. Findings showed that productivity in RIL is not significantly different from productivity in CLS in terms of volume of wood recovery*
Status: Findings already submitted for publication.
- (ii) Felling Induced Mechanical Damages in Tropical Timbers and their Effects on Structural Application. *The study is to quantify and qualify the different types damages associated with felling of mature tropical timbers. The study show that the magnitude of the damages is enormous and can seriously affect the quality of the wood from the felled trees especially those woods meant for structural applications*
Status: Manuscript ready for publication
- (iii) Log and Wood Quality of Some Structural Timber Species in University of Ibadan. *The research was to assess the wood quality and utilization potentials of some structural timber within the University of Ibadan campus. It was discovered that the stud timbers compared favourably with those from natural forest*
Status: Manuscript already accepted for publication.
- (iv) Decay Characteristics of Hazardous Trees in University of Ibadan Campus *The objective is to qualify and quantify decay characteristics of some municipal trees on campus that have become hazardous*
Status: Research still in progress.
- (v) Felling Induced Dynamic Stresses in Tropical Timbers and the Effects on Structure Application. *This is a pioneer study aimed at determining the effects of landing forces and dynamic loading on wood of harvested tree during felling operation.*
Status: Study almost completed.

c. **Dissertation and Thesis**

- (i) Technical Assessment of Veneer-Laminated Cement-Bonded Particleboard Produced from mixed Nigerian Hardwoods. **B.Tech** Project report. Department of Forestry and Wood Technology, Federal University of Technology Akure, Nigeria 1994, 67pp.
- (ii) Efficacy of Used Engine Oil for Protecting Wood against Insect Attack. **M.Sc** Project Report. Department of Agricultural Engineering, University of Ibadan, Ibadan, Nigeria. 121pp.
- (iii) Dynamic Stresses Induced in Some Nigerian Hardwood Species during Felling and their Effects on Wood Quality. **Ph.D.** Thesis. Department of Agricultural Engineering, University of Ibadan, Ibadan, Nigeria 2000, 206pp.

X. Publications

Over 60 publications amongst which are listed below

a. Chapters in Books already published:

- (1) Ogunsanwo O.Y. and **A.O. Omole** 2010: Basic Practical procedures in Wood Science. In Ijeoma H.M. and A.A. Aiyeloja eds Practical Issues in Forest and Wildlife Resources Management. Green Canopy Consultants, Nigeria. Pp 411-437. Nigeria

b. Articles that have appeared in refereed Conference Proceedings

- (2) Oluwadare, A.O. and **Omole, A.O.** (1999): *Senna siamea* (LAM) and it's Potential for Protective Forestry, In: P.C. Obiaga, J.E. Abu, L. Popoola, and G. Ujor (Eds). *Conservation of Nigeria's Natural Resources and the Threatened Environment*. Proceedings of the 26th Annual Conf. of Forestry Association of Nigeria held in Maiduguri, Borno State, 162-168pp.
- (3) Adetogun A.C., **A.O. Omole** and Adejumo R.O. (April, 2008): Potentials of Sawmill Wood Wastes for Pulp and Paper Production. In J.C Onyekwelu, V.A.J. Adekunle and D.O. Oke (Eds). *Research for development in Forestry, Forest Products and Natural Resources Management*. Proceedings of the 1st National Conference of the Forest and Forest Products Society held in The Federal University of Technology, Akure.
- (4) Ogunjobi, K.M., Adetogun, A.C. and **A.O. Omole** (April, 2008): Biodiversity Indicators: Tools for Sustainable Forest Management. In J.C. Onyekwelu, V.A.J. Adekunle and D.O. Oke (Eds) *Research for Development in Forestry. Forest Products and Natural Resources Management*. Proceedings of the 1st National Conference of the Forest and Forest Products Society held in The Federal University of technology, Akure
- (5) Akinwole, A.O and **A. O. Omole** (2010): Highlights of the Potentials of Bamboo in Reducing operational Cost of Fish Farming in Nigeria. In J.C Onyekwelu, V.A.J Adekunle and D.O. Oke (Eds) *Climate Change and Forest Resources Management. The Way Forward*. Proceedings of the 2nd Biennial National Conference of the Forest and Forest Products Society held at Federal University of Technology, Akure pp 437-440
- (6) **Omole A.O.**, A.C Adetogun and K.M. Ogunjobi (2010): Ergonomics Assessment of Forestry Operations in Omo Forest Reserve, Ogun State. In J.C Onyekwelu, V.A.J Adekunle and D.O. Oke (Eds) *Climate Change and Forest Resources Management. The Way Forward*. Proceedings of the 2nd Biennial National Conference of the Forest and Forest Products Society held at Federal University of Technology, Akure pp 461-466
- (7) Adetogun A.C, K.M. Ogunjobi and **A.O. Omole** (2010): Variations in the Relationship between the Specific Gravity and Mechanical Properties of the Wood of *Vitex doniana* sweet. In J.C Onyekwelu, V.A.J Adekunle and D.O. Oke (Eds) *Climate Change and Forest Resources Management. The Way Forward*. Proceedings of the 2nd Biennial National Conference of the Forest

and Forest Products Society held at Federal University of Technology, Akure pp 432-436.

c. **Patents**

NIL

d. *Articles that have already appeared in Learned Journals*

- (8) Oyagade, A.O., Badejo, S.O. and **Omole, A.O.** (1995): A Preliminary Evaluation of the Flexural Properties of Wood Veneer Laminated Cement bonded particleboard from Tropical Hardwood species. *Journal of Timber Development Association. India.* XLI (3); 25-29.
- (9) **Omole A.O.** and Badejo, S.O. (1999): Effects of process variables on strength properties of Veneer Laminated cement bonded particleboard from Mixed Tropical Hardwood, *Journal of Tropical Forest Resources* 15 (1): 87-96.
- (10) **Omole A.O.** and Onilude M.A. (2000): Preliminary Study on the Use of Engine Oil as Wood Preservative. *Journal of Tropical Forest Resources.* 16 (1): 66-71.
- (11) **Omole A.O.,** A.C. Adetogun and Akinyemi O.A. (2005): Reduced Impact Logging of Nigerian Gmelina Plantations in Omo Forest Reserve, Nigeria. *Journal of Tropical Forest Resources.* 21 (1): 140 – 146.
- (12) Adetogun A.C., O.M., Aina O.Y., Ogunsanwo and **A.O. Omole** (2006): Resistance of Three Nigerian hardwoods to Decay Caused by Brown and White-Rot Basidiomycetes. *ASSETS Serial A.* 6 (2): 205-208.
- (13) Adetogun A.C. and **Omole A.O.** (2007): Treatment of *Gmelina arborea* with CCA Using Thermal Process. *Journal of Tropical Forest Science Malaysia* 19(2): 119 – 120.
- (14) **Omole A.O.** (2008): Municipal Tree Management in a Nigeria University, *Journal of Ecology* Vol. 9:1-5.
- (15) Adetogun A.C., A.O. Adegeye and **A.O. Omole** (2009): Evaluation of Cashew Shell Liquid (CNSL) as a Wood Preservative Using Weight Loss, *Agricultural Journal* 4(1): 32-35.
- (16) **Omole A.O.,** A.C. Adetogun and H. Okonkwo (2009): Wood Energy Production Efficiency in Akinyele Local Government Area of Oyo State. *Journal of Applied Science, Engineering and Technology* 9:38-42
- (17) **Omole, A.O.,** A. C. Adetogun and O. Banjoko 2009: Utilization Potentials of *Eucalyptus grandis* (Hill ex Maiden) a Municipal Tree on the University of Ibadan Campus. *Research Journal of Applied Sciences.* Vol. 4(5): 157-159
- (18) **Omole A.O.** and A.C. Adetogun 2010: Resistance of Engine Oil Treated Wood to Termite Attack. *Forest and Forest Products Journal* Vol. 3: 26-31

- (19) **Omole A. O.** and A. C. Adetogun 2010: Dimensional Properties of Wood Cement Panels produced from Waste of Some Municipal Tree Species in University of Ibadan. *Forest and Forest Products Journal*. Vol. 3: 40-49
- (20) Adetogun A.C., F.M Oladapo, **A.O. Omole**, K.M.Ogunjobi and R.O. Adejumo 2010: Biodegradation of *Triplochiton scleroxylon* K. Schum, *Tectona grandis* Linn, *Gmelina arborea* Robx, *Nauclea diderrichii* Linn and *Terminalia ivorensis* A.Chev by *Lenzites palisoti*. *Agricultural journal* 5(3):128-130
- (21) **Omole A.O.** 2010: Damages Induced in the Wood of some Tropical Trees During Felling. *Nigerian Journal of Agriculture, Food and Environment (NJAFE)* 6(3&4):47-52
- (22) Adetogun A.C and **A.O. Omole** 2010: Mycellial growth inhibition of basidiomyceteous fungi by extracts of *Anacardium occidentale* Linn, *Bridelia ferruginea* Benth and *Ficus sur* Forsskal. *Nigeria Journal of Ecology* Vol. 11: 1-6
- (23) Adetogun A.C , **A.O. Omole** and O.M. Aina 2010: Biodegradation of *Triplochiton scleroxylon* K. Schum In Vitro by White Rot Fungi *Nigeria Journal of Ecology* Vol. 11: 7-9
- (24) **Omole A.O.**, A.C. Adetogun and R.O. Adejumo 2010: Assessment and Classification of Hazardous street trees in University of Ibadan, Nigeria. *Journal of Agriculture, Forestry and Social Science (JOAFSS)*. Vol. 8(2): 183-194.
- (25) **Omole A.O.** 2010. Effect of wood properties on incidental damages to felled trees in some selected Nigerian hardwood species. *Nigerian Journal of Forestry* Volume 40(1): 17-25
- (26) **Omole A.O.** and A.C. Adetogun. 2011: Flexural properties of Wood Cement board Fabricated from Cropping Wastes of Urban Trees in a Nigerian University. *Journal of Agriculture, Forestry and Social Science (JOAFSS)*. Vol. 9(1): 186-191
- (27) Egbewole Z.T. Ogunsanwo O.Y. and **Omole A.O.** 2011: Technical Efficiency of Lumber recovery from High Forest tree Species in Selected Sawmills of Southwestern Nigeria. *Nigerian Journal of Agriculture, Food and Environment (NJAFE)* 7(1):34-41
- (28) **Omole A.O.**, Udofia S.I. and Obonyilo P.O. 2011: Assessment of Stakeholders Participation in Forest Road maintenance in a Nigerian Forest Estate. *Nigerian Journal of Agriculture, Food and Environment (NJAFE)* 7(2): 88-93
- (29) **Omole A.O.** 2011: Felling Induced Dynamic Stresses in Some Tropical Hardwood From Nigeria Lowland Rainforest. *Nigerian Journal of Agriculture, Food and Environment (NJAFE)* 7(2): 88-93

- (30) **Omole A.O.** 2011: Environmentally Sound Wood Harvesting in Omo Forest Reserve Ogun State Nigeria. *Journal of Agriculture, Forestry and Social Science (JOAFSS)*. Vol. 9(2): 273-281
- (31) Ogunyebi A.L., **A.O. Omole**, and S.O. Bada 2011: Rate of Decomposition of Leaf litter in an Age Series *Gmelina arborea* Robx Plantation in a Nigerian Lowland Rain Forest. *Journal of Agriculture, Forestry and Social Science (JOAFSS)*. Vol. 9(2): 236-247
- (32) Badejo S.O., **A.O. Omole**, J.A. Fuwape and B.O. Oyeleye 2011: Static bending and moisture response of Cement-bonded Particleboard Produced at different levels of percent chemical additive content in board. *Journal of Agriculture, Food and Environment (NJAFE)* 7(4): 111-120
- (33) Badejo S.O., **A.O. Omole**, J.A. Fuwape and B.O. Oyeleye 2011: Physical and Mechanical Properties of Cement-Bonded Particleboards Produced at Different Water Pre-Treatment Temperatures and Cement/Wood Mixing Ratios. *Forest and Forest Product Journal*. 4:38 - 46.
- (34) Omole A.O and B.M. Imoh 2011: Conversion Efficiency in Re-Saw Wood Processing Mills of Akwa Ibom State, Nigeria. *Forest and Forest Product*. 4:47 - 54.
- (35) **Omole A.O.** and Edith Aruagbon 2011: Occupational Safety and Health in Logging Operations at Ondo State Afforestation Project. *Nigerian Journal of Forestry*. Volume 41 (2) 92-99
- (36) Omole A.O. and A.O. Akinwale 2012: Assessment of Technical Compliances to Landowners Guides in Forest Roads of Oluwa Forest Reserve Ondo State Nigeria. *Journal of Agriculture, Food and Environment (NJAFE)* 8(2): 41-44
- (37) Omole A.O. and A.Oumarou 2012: Effectiveness of Bioengineering Methods of Water erosion control in Tarka Versant Valley, Niger Republic. *Nigeria Journal of Ecology* Vol. 12: 37-44
- (38) Badejo S.O and A.O. Omole 2012: Influence of Flake Thickness on Flexural and Moisture properties of Wood Cement Panels Fabricated from Mixed Furnish of Eight Hardwood Species. *Ibadan Journal of Agriculture Research (IJAR)* Vol. 8: 93-108
- (39) Ogunjobi K.M, A.C. Adetogun, A.O. Omole, S.O. Owoeye and J.B. Odebiyi 2013: Relationship between Mechanical Properties of *Vitex doniana*, a Lesser Known Species and Implications for Utilization. *IOSR Journal of Agriculture and Veterinary Science (IOSR-JAVS)* Vol. 4(5):50-56.
- (40) Ogunjobi K.M, A.C. Adetogun, D.O. Soetan A.O. Omole, O. Olorunfemi and J.B. Odebiyi 2013: *International Journal of Engineering Research and Technology (IJERT)* Vol. 2(10): 3936-3943

- (41) Ogunyebi, L. A., **Omole, A. O.** and Bada, S. O. (2013): Seasonal Variation in Litter Fall in an Age Series *Gmelina arborea* Plantation in a Nigerian Rainforest. *International Journal of Research in Chemistry and Environment*. Vol. 3 (1): 44-51
- (42) Badejo, S.O. and **Omole, A. O.** (2013): Sorption and Bending Properties of Wood Cement Panel Produced from Mixed Nigerian Hardwood at Varying Water/Cement Ratio. *Journal of Environmental Extension* Vol. 11:96-106
- (43) Badejo, S. O., **Omole, A. O.** and Fuwape, J. A. (2014): Effect of Shelling Ratios on the Sorption and Flexural Properties of Cement Bonded Particleboard Produced from Mixed Nigerian Hardwood Species. *Forest and Forest Products Journal* Vol: 7: 31-41.
- (44) **Omole, A. O.** and Moshood, A. J. (2014): Variations in the Wood Properties of *Terminalia mantaly* (H. Perrier) Grown as Municipal Tree in a Nigerian University. *Forest and Forest Products Journal* Vol. 7: 31-41.
- (45) Ogunjobi, K. M., Adetogun, A. C. and **Omole, A. O.** (2014): Assessment of Variation in the Fiber Characteristics of the Wood of *Vitex Doniana* sweet and its Suitability for Paper Production. *Journal of Research in Forestry, Wildlife and Environment*. Vol. 6 (1): 39-51.
- (46) **Omole, A. O.**, Adegeye, A. O. and Jemide, O. (2015): A Survey of Biodegrading Agents in Logs and Planks in Selected Sawmills and Timber Markets in Ibadan Oyo State. *Nigerian Journal of Forestry* Vol. 45 (1): 36-47.
- (47) Areo, O. S., O.R. Adejoba and **A, O. Omole** (2015): Influence of Mechanical Properties on Utilization Potentials of *Mangifera Indica* L. Wood. *Elixir Journal of Environment and Forestry*. 86(2015): 35075-35077
- (48) **Omole, A. O.**, A. L. Adejoba and A. O. Oluwadare (2015): Evaluation of *Parkia* Seed Extracts as Preservative Against Fungi. *Elixir Journal of Environment and Forestry*. 88(2015): 36347-36350
- (49) Areo, O. S., O.R. Adejoba, **A, O. Omole** and A. L. Adejoba (2016): Copper Chrome Arsenate (CCA) Concentration on Absorption, Penetration and Retention of *Tectona Grandis*. *Elixir Journal of Environment and Forestry*. 94(2016): 40307-40309
- (50) Rotowa O. J., **A. O. Omole** and Z. T. Egbewole (2017): Technical Assessment for Grades and Standards of Structural Timbers in Nigeria. *International Journal of Applied Science and Technology* Vol. 6(8): 70-81
- (51) Areo, O. S., **A, O. Omole** and O.R. Adejoba (2019): Mechanical Properties of Photodegraded Wood of Nigerian Grown *Gmelina Arborea* (Robx). *International Journal of Applied Science and Technology* Vol. 8(3): 23-30
- (52) Appah Ogechukwu Rose, Adeleke Joshua and **Omole A.O.** (2017) Socio psychological factor as a panacea to students' Acquisition of Forest

Plantation Establishment Skills in Federal Colleges of Forestry in Nigeria
Education Research Journal. Vol. 7 (10): 255-259.

- (53) Areo, O. S., **A. O. Omole** and O. R. Adejoba (2020): Evaluation of Selected Physical Properties of Breadfruit Wood (*Artocarpus altilis*, Parkinson ex F. A. Zorn) Grown in South-Western Nigeria. *Trends in Applied Sciences Research*. Vol. 15(3): 226-234.