

## A **BIO DATA**

1. Name: **OKUNOLA**, Abiodun Afolabi

2. Date of Birth: 27<sup>th</sup> December, 1964

3. Place of Birth Ibadan.

4. Local Govt. Area: Ibadan North East

5. State: Oyo
6. Nationality: Nigerian
7. Marital Status: Married
8. Religion: Christianity

9. Number of Children: Three

10. Contact Address: Dept. of Agric. & Biosystems Engineering,

Landmark University, Omu Aran.

11. Residential Address: Block 3 Flat 8 Landmark University Staff Quarters

12. Mobile: 234-8062294254

13. E- mail: <u>okunola.abiodun@lmu.edu.ng, abiodunokunola@yahoo.com</u>

14. Present Position: Associate Professor15. Current Salary: LUSS13 Step5

## B. EDUCATIONAL HISTORY:

i.	University of Ibadan, Ibadan	2005 - 2011
ii.	University of Ibadan, Ibadan	1990 - 1991
iii.	Woverhampton University (formerly Polytechnic), England	1990
iv.	University of Ibadan, Ibadan	1981 -1986
v.	Baptist Grammar School, Idi-Isin, Ibadan	1975 - 1980
vi.	Methodist Primary School, Bodija, Ibadan	1970 - 1975

# C. ACADEMIC AND PROFESSIONAL QUALIFICATIONS

i.	Ph.D. Crop Processing & Storage Engineering	December, 2011
ii.	M.Sc. Agricultural Engineering	October, 1991
iii.	P. G. Cert. Education	July, 1990
iv.	B.Sc. (Hons) Agricultural Engineering	July, 1986
v.	West African School Certificate	June, 1980
vi.	Primary School Leaving Certificate	1975
vii.	Registered Engineer, (COREN) R. 5097	November, 1992
viii.	Certified Teacher, (TRCN) No OD/T/00132	June 2007

# D. TEACHING EXPERIENCE

(a) Academic Position Held

i. Associate Professor 1/11/2021 - Date

ii. Senior Lecturer, LMU, Dept. of Agric. & Biosystems Engineering

1/12/14 - 31/11/2021

iii. Visiting Senior Lecturer, LMU, Dept. of Agric. & Biosystems Engineering 20/09/13 – 30/11/2014

iv	Senior Lecturer (Sabbatical), LMU, Dept of Agric. & Biosystems Engineering 20/09/12 – 19/09/2013		
v.	Principal Lecturer, Dept. of Agric. & Bio- Environ. Engineering, Federal College of Agriculture, Akure. 1/10/2001 – 30/11/2014		
vi	. Senior Lecturer, Dept. of Agric. & Bio- Environ. Engineering, Federal College of		
vi	i. Lecturer I, Dept. of Agric. & Bio- Environ. Engineering, Federal College of		
vi			
ix	Agriculture, Akure. 1/10/1992 – 30/9/1995 Lecturer III, Dept. of Agric. & Bio- Environ. Engineering, Federal College of		
(b)	Agriculture, Akure. 7/06/1988 – 30/9/199  (b) Administrative Position Held		
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i.	Head of Department, Agric. & Biosystems Engineering LMU 22/11/2021 - Date		
ii.	Dean, Directorate of Student Affairs, Landmark University 20/11/2020 – 22/11/2021		
iii.	Director, Landmark University Centre for Agricultural Mechanization		
	05/09/2019 - 05/01/2021		
iv.	Ag. Head of Department, Agric. & Biosystems Engineering LMU 18/8/2016 – 2019		
ii.	Head, Department of Agric. & Environ. Engineering FECA 7/3/2014-30/11/2014		
iii.			
iv.			
14.	Treat of Section, Engineering and Weenamzation Let		
E.	ADMINISTRATIVE ASSIGNMENTS / COMMUNITY SERVICES		
i.	Member, Landmark University Senate 2015 -2018 & 2020 – Date		
ii.	Member, University Central Management Board 2020 - 2021		
iii.	Member, Landmark University Faculty Staff Disciplinary Committee 2020 - 2021		
iv.	Member, Landmark University Students Disciplinary Committee 2020 - 2021		
V.	Member, Landmark University Postgraduate Students Disciplinary Committee 2020 - 21		
v. vi.	Member, LUCAM Board 2019 - 2020		
vii.	Member, Landmark Bamboo Initiative Group  2019 - 2020  Chair Callege of Fracing and Assembly States Committee Commit		
viii.	Chair, College of Engineering Accreditation Committee 2019 - 2020		
ix.	Member, Landmark University Accreditation Committee 2017 - 2020		
х.	Member, Landmark University Students Disciplinary Committee 10/10/2018 – 2019		
xi.	Member, Teaching and Research Farm Board 17/09/2018 - 2019		
xii.	Chair, Steering Committee / Director LUCAM 23/03/2018 – 24 / 08/2108		
xiii.	Member, Governing Board, LUSS 8th January, 2018 – Date		
xiv.	Member / sub team leader, Post-harvest, LMU – CAVA II team 10/01/2018- Date		
XV.	Member, LMU Road Safety Committee 10 <sup>th</sup> February, 2017 -2019		
xvi.	Member, LMU Transportation Committee 1 <sup>st</sup> December, 2016 - 2019		
xvii.	Member, LMU Quality Assurance Committee 16 <sup>th</sup> November, 2016 - 2019		
xviii.	Member, LMU Food, Beverages & Confectionaries Monitoring Committee March, 2016		
	- August 2018		
xix.	Member, LMU OSBAM Committee 2015 - 2018		
XX.	Chair, Agric, & Biosystems Engineering Research Team Sept. 2015 – Aug. 2016		
xxi.	Chair, LMU-Community Development Impact Initiatives September, 2015 – Date		
xxii.	Vice Chair, LMU Chapel Committee February, 2015 – Date		
xxiii.	Chair, ABE Dept. Forensic Accreditation Committee 2015 - 2016		
xxiv.	Member, Landmark University Farms Board 1st December, 2014 – 30th June 2018		
XXV.	Acting University Chaplain September – November, 2013		

xxvi.	Resource Person, Career talk, Omu Aran High School, Omu A	ran.	7 <sup>th</sup> Nov. 2014
xxvii.	Resource Person, Career talk, Adeoti College, Omu Aran	14 <sup>th</sup> No	vember, 2014
xxviii.	Member, ABE Dept. Laboratory / Workshop Committee	1 <sup>st</sup> Decembe	r,2014 - 2015
xxix.	Member, Landmark University Engineering Equipment Comm	nittee	2012 - 2014
XXX.	External Examiner, Rufus Giwa Polytechnic Owo		2010 - 2015
xxxi.	Chair, Faith Academy Governing Council, Akure	November,	2013 - 2015
xxxii.	Chair, Deacons' Board Living Faith Church, Akure, Ondo Stat	te	2005 - 2007
xxxiii.	Secretary, Local Church Council Living Faith Church, Akure.		2005 - 2007
xxxiv.	Pastoral Assistant, Living Faith Church, Akure, Ondo State.		2007 – Date
XXXV.	FECA Representative, National Forum of Heads of Federal Go	vernment Es	tablishment in
	C ,	,	2008 - 2011)
xxxvi.	Resource Person, N.B.T.E. accreditation, Federal Polytechnic	ic Nekede C	werri 1 <sup>st</sup> –5 <sup>th</sup>
	November, 2004.		
xxxvii.	Resource Person, N.B.T.E. accreditation, Lagos State Poly	technic, Iko	$rodu 2^{nd} -5^{th}$
	October, 2001.		
	OURSES TAUGHT		
(a)	In Landmark University, Omu Aran, Nigeria.		2012 - Date

### F.

#### Post Graduate

- Advanced Engineering Properties for Agric. and Biological Materials (ABE 836) i.
- ii. Advanced Processing Techniques for Agric. & Biological products (ABE 810)
- iii. Advanced Handling of Agric. & Biological Materials (ABE 842)
- Advanced Storage Technology (ABE 861) iv.
- Food Process Engineering (ABE 746) v.
- Processing of Agricultural Products (ABE 733) vi.

#### **Under Graduate**

- i. Handling of Agricultural and Biological Materials (ABE 522)
- ii. Special Problems in Agricultural Engineering (ABE 524)
- iii Bio Process Engineering (ABE 533)
- iv Food Engineering (ABE 417)
- Total Man Concepts (TMC 121, 211, 311, 411, 421, 511 & 521) vi.
- vii. Technical Communications (GEC 324)
- viii. Design, analysis and Management of Storage Structures (ABE 413)
- Introduction to Crop Production (ABE 314) ix.
- X. Farm Transportation (ABE 426)
- xi. Introduction to Farm Machinery (ABE 241)
- xii. Farm Workshop (ABE 317)
- (b) In Federal College of Agriculture, Akure, Nigeria.

1988 - 2014

- Crop Processing and Storage (AET 225) i.
- ii. Farm Machinery and Mechanization (AET 222)
- iii. Tractor Operation and Maintenance (AET 212)
- Introduction to Agricultural Engineering (AET 111) iv.
- v. Basic Workshop Practice (CME 122)
- Crop Farm Mechanization (CPT 436)) vi.
- vii. General Farm Mechanization (AEM 445)
- Crop Processing and Handling Machinery (AEP 445) viii.
- ix. Livestock Farm Mechanization (APT 311)
- Crop Drying and Storage (AEP 443) Χ.
- xi. Land Clearing and Development (AET 311)

## G. SCHOLARSHIPS, FELLOWSHIPS AND AWARDS / ACADEMIC LINKAGES

i.	Excellent leadership award as Acting HOD, ABE	2018 / 2019
ii.	Distinguished service award, Landmark University Chaplaincy	2018
iii.	Outstanding leadership award as Acting HOD, ABE	2016 / 2017
iv.	Award of excellence in leadership, Landmark University Chaplaincy	2016
v.	Supervisor of 1st prize winner of North Central CODET competition	2016
vi.	Collaboration with Dept. of Agricultural Engineering, Uni Kassel,	Germany for
	Cassava challenge grant of Rockefeller Foundation	2016
vii.	Chair, Technical Session, Crop Processing Engineering 2016 NIAE Co	nference 2016
viii.	MASHAV / CINADCO linkage for capacity building	2015
ix.	Life member & Fellow, Nigerian Institution of Agricultural Engineers	2009 / 2018
х.	MASHAV Award: International Workshop on R & D in Agric. Engine	ering 2006
xi.	Overseas Technical Trainer's Award of the British Government	1990

## H. LEADERSHIP SKILLS AND PERSONAL TRAITS

- Mentorship of young academics and professionals
- In-loco parentis of some national / International students
- Good analytical and innovative skills
- Strong drive for continuous learning and knowledge sharing
- I. INSTITUTIONAL DEVELOPMENT PLAN; to participate in cutting edge technology development for advancement of knowledge and research in agricultural engineering, thereby advancing the agricultural revolution and food security. Dissemination of research findings through publications, poverty alleviation by community impact activities and food security advocacy.
- **J. RESEARCH FOCUS:** Utilization of Post-harvest engineering to develop processing and storage equipment of agricultural products to enhance quality in the food chain, sorption phenomena and storage stability, renewable energy development and optimization of oil extraction in some agricultural crops as contributions to Sustainable Development Goals.

## **K. PUBLICATIONS**

- (a) Thesis / Dissertations
- Ph. D Thesis Development of a cleaning and grading machine to improve the quality of milled rice (*Oryza sativa* L). University of Ibadan, Ibadan. 2011. 251 pp
- M.Sc. Dissertation: Equilibrium moisture content of some tropical agricultural crops. University of Ibadan, Ibadan. 1991. 94 pp
- B.Sc. Project: Design and construction of a cereal cleaner. University of Ibadan, Ibadan. 1986. 76 pp
- (b) Journals (\* Publications after resumption as a tenured faculty in Landmark University)
- i. \*Okunola, A., Adekanye, T. and E. Idahosa 2021 Energy and exergy analyses of okra drying process in a forced convection cabinet dryer, *Research in Agricultural Engineering* 67, 2021 1, 8-16. [Scopus indexed]
- ii. \*Adeyonu A.G., **A. Okunola**, M. E. Alao, E. O. Oyawoye and C. Okwonko 2021, An assessment of broiler value chain in Nigeria *Open Agriculture* (6) 293-307 [Scopus indexed]

- iii. \*Obaniyi, K. S.; Aremu, C., Abolusoro, S.; Ajiboye, B; Adeyonu, A and **Okunola, A. A.** (2019) Impact of climate change on chocolate and cocoa production. *Medwell Journal of Engineering and Applied Sciences*. 14(24) 9645-9650 [Google Scholar-indexed]
- iv. \*Okunola, A. A., Ajayi, A. E., Daniya, O. I. and Olasehinde, D. A. (2019). Performance evaluation of anaerobic technology in handling high effluent of a brewery. *Medwell Journal of Engineering and Applied Sciences*. 14(22) 8373-8378 [Google Scholarindexed]
- v. \*Adekanye, T. A., Alhassan, E. A. **Okunola. A. A.** Akande, D. I., Erinle, C.O., Familoni, I. B. Olaniyi, A. (2019) Evaluation of a Locust Bean seed dehulling machine for Small Scale Farmers. *International Journal of Mechanical Engineering and Technology.* 10(3): 426-436. [Scopus-indexed]
- vi. \*Olayanju, T. A., Okonkwo, C. E., Ojediran, J.O., Alake, S.A., Alhassan, E.A. and **Okunola, A. A.** (2019) Design, development and evaluation of a tangential–flow paddy thresher. A response surface analysis *Asian Journal of Scientific Research* 12 (3) 396-405 doi.10.3923/ajsr.2019.396.405 [Google Scholar-indexed]
- vii. \*Dada, A. O., Ojediran, J. O., **Okunola, A. A.**, Dada, F. E. Lawal, A. I. and O. Dada (2019) Modeling of Biosorption of Pb(Ii) And Zn(Ii) Ions Onto Pamrh: Langmuir, Freundlich, Temkin, Dubinin-Raduskevich, Jovanovic, Flory-Huggins, Fowler-Guggenheim And Kiselev Comparative Isotherm Studies. *International Journal of Mechanical Engineering and Technology.* 10(2): 1048-1058. [Scopus-indexed]
- viii. \*Okunola, A. A., Okunola, C. O. and T. Ofuya (2019) Acceptability and sensory evaluation of maize and cowpea products stored with some essential oils. *International Journal of Agricultural Research and Food Production* (4) 1, 30-35.
- ix. \*Okunola, A. A., Okonkwo, C. O., Olumehense, A. G., Ajao, F. and Olayanju. T. A. (2019) Design, development and evaluation of a pneumatic cum eccentric drive grain cleaning machine- A response surface analysis *Asian Journal of Scientific Research DOI:10.3923/ajsr.2019.462.471* [Google Scholar -indexed]
- x. \*Adekanye, T. A., Babaremu, K, **Okunola, A. A.** (2019) Evaluation of an active evaporative cooling device for storage of fruits and vegetables, E-Journal of Agricultural CIGR 21 (1) 203-208. [Scopus Indexed]
- xi. \*Okunola, A. A., Adeniyi Olayanju, Adewumi, A. D. and Abolusoro, S. A. (2019). Evaluation of milling characteristics of some varieties of paddy of rice in cottage industries of Ondo and Ekiti states in south west Nigeria. *International Journal of Engineering and Scientific Discovery* 4 (1):30-35.
- xii. \*Okunola, A. A., Adekanye, T. A., Adewumi, A. D. and Ashamu, F. F. (2019). Assessment of rice processing operations in Ekiti State, Nigeria. *International Journal of Civil Engineering and Technology*. 10 (2): 2197-2204. [Scopus-indexed]
- \*Raphael, O.D., Alhassan, E. A. Fasinmirin, J. O. and **Okunola, A. A.** (2019) Climate and soil characterization in irrigation planning for bell pepper in the humid climate of Omu-Aran, Nigeria. *International Journal of Civil Engineering and Technology.* 10 (1): 1051-1065. [Scopus-indexed]
- xiv. \*Okunola, A. A., Adekanye, T. A., Ayooluwa, A., Okonkwo, C. E., Alake, S. A. Olayanju, T.M.A. and A. D. Adewumi (2019) Development of a locust bean seed dehulling cum

- washing machine *International Journal of Mechanical Engineering and Technology*. 10 (1): 1321-1330. [Scopus-indexed]
- xv. \*Ojediran, J.O., Okonkwo, C.E., **Okunola, A. A.** and Alake, A. S. (2018) Development of a motorized de-stonning machine. E-Journal of Agricultural CIGR 20 (4) 202-209. [Scopus Indexed]
- \*Vi. \*Olawale, O. O. Ogundipe, B. T. Ogundipe., S. J. Abayomi, S. T., Uguru-Okorie, D. **Okunola, A. A.** Oni, S. O., Kolawole, O. D. and Ikpotokin, J. (2018) Katemfe seed extract as a corrosion inhibitor for mild-steel in 0.5M HCI *International Journal of Civil Engineering and Technology.* 9 (13): 1394-1402. [Scopus-indexed]
- xvii. \*Okunola, A. A., Adewumi, A.D., Okonkwo. C, E., Kim, P.O., Okoro, I. Ogunrinu, S. I., Osueke, C. O. and Idhaosa, O. E, O. O. (2018). Physico-chemical properties of various biomass used in Anaerobic digestion. *International Journal of Civil Engineering and Technology*. 9 (13): 1403-1410. [Scopus-indexed]
- \*Okunola, A., A. Isaac Bamgboye, A., Olayanyu, Adeniyi, Osueke, C. O. and Alhassan,
   E. A. (2018). Development of a rice cleaner cum grader for cottage processors in Nigeria.
   International Journal of Mechanical Engineering and Technology. 9 (11): 2339-2351.
   [Scopus-indexed]
- \*Nosueke C. O, Onokwai, A. O., Ezugwu C. A., Uzendu, P, **Okunola, A. A.**, Ikpotokin, I, and I, Micheal (**2018**). Design and Fabrication of an Anaerobic Digester for Biogas Production. *International Journal of Civil Engineering and Technology*. 9 (11) 2639-2648. [Scopus-indexed]
- xx. \*Olayanju, Adeniyi T., Okonkwo, C.E., Ojediran, J.O., Alake. S. A., **Okunola, A, A.**, Alhassan, E. A., Olaniran, A. and E. O. Idahosa (**2018**). Development of an improved gari fryer. *International Journal of Mechanical Engineering and Technology*. 9 (11): 769-778. [Scopus-indexed]
- \*Dada, A.O. Inyinbor, A.A., Idu, I.E., Bello, O.M., Oluyori, A.P., **Okunola, A.A.**, Adelani-Akande, T.A. and Dada, O. (2018). Effect of Various Operational Parameters, Characterization and Antibacterial Studies of Green synthesis of Silver nanoparticles using *Tithonia diversifolia*. *Peerj* e-Journal Vol. 6– Elsevier [Scopus Indexed]
- xviii. \*A. T. Olayanju, C. E. Okonkwo, J. O. Ojediran, S. A. Alake, **A. A. Okunola,** E. A. Alhassan, A. Olaniran and Endurance Osaivbie Idahosa (2018) Development of an improved gari fryer International Journal of Mechanical Engineering and Technology Volume 9, (11) 769 788 [Scopus Indexed]
- xix. \*Fadeyibi, A.; Osunde, Z. D.; Yisa, M.G. and **Okunola, A.** A. 2017 Investigation into properties of starch-based nanocomposite materials for fruits and vegetables packaging A review. *FUTAJEET* Vol. 11, (1) 12 -16. Research Gate cited.
- \* Okunola, A. A., J. C. Igbeka. C.O. Okunola and J.O. Ojediran. 2015. Comparison of water adsorption characteristics of plantain and cocoyam in a controlled storage condition. *Journal of Food Science and Quality Management* Vol.43, 7 13. Index Copernicus. Google Scholar cited
- xxi. \* **Okunola, A. A.**, J. C. Igbeka and Arisoyin A. G. 2015. Development and evaluation of a cereal cleaner. *Journal of Multidisciplinary Engineering Science and Technology* Vol. 2 (6) 1587 1593. Google Scholar cited
- xxii. \*Adejumo A.O.D., **Okunola A. A.** and Komolafe, C.A. 2015. Performance Characteristics of a decorticator on a Jatropha seeds. *Journal of Multidisciplinary Engineering Science and Technology* Vol.2 (5) 1226 1231. Google Scholar cited

- xxiii.\*Adepoju T. F. and **Okunola A. A**. 2015, Modelling and Optimisation of transesterification of Beniseed methyl ester. A case of Artificial Neural Network versus Response Surface Methodology, *International Journal of Chemical and Process Engineering Research* Vol. 2 (3) 30 43. Google Scholar cited
- xxiv. \*Okunola A. A. and Adepoju, T. F. 2015. Modeling and optimization of extraction of oil from *sesamum indricum* seeds: A case of Response Surface Methodology vs. Artificial Neural Network. *International Journal of Chemistry and Materials Research* Vol. 3 (2) 41 52. Google Scholar cited
- xxv. \*Adepoju T.F., Olamide O., **Okunola, A. A**. and Olatunji F.M. 2014. Solvent extraction of oil from soursop oilseed and its quality characterization. *International Journal of* Sustainable *Energy and Environmental Research*. Vol 3 (2) 80 89. PAK Publishing, Google Scholar cited
- xxvi. Adepoju T. F., Ojediran, J. O. and **Okunola A. A**. 2013 An optimization approach to oil extraction from Chrysophyllum Albidium oilseeds and its quality characterization. *International Journal of Innovative Research and Studies* Vol.2 (10) 56 -71. Google Scholar cited
- xxvii. Adepoju T. F. and **Okunola A. A.** 2013. Statistical Approach to Oils Extraction from Sorrel Seed (*Hibiscus sabdariffa* L.) and its Quality Characterization. *International Journal of Scientific and Engineering Research* Vol.4 (9): 1373 1383. Index Copernicus, Google Scholar cited.
- xxviii. Adepoju T., F. and **Okunola A. A.** 2013 SOME: An Alternative Environment-friendly Internal Combustion Engine fuel. *International Journal of Scientific and Engineering Research* Vol.4 (9): 1360 1372 Index Copernicus, Google Scholar cited.
- xxix. Adepoju T.. F., **Okunola A. A.** and O. Olamide 2013 Optimization, kinetic degradation and quality characterization of oil extracted from Nigerian *Hibiscus sabdariffa* oilseeds. *Journal of Energy Technologies and Policy* Vol.3 (9) 43-54. Index Copernicus, Google Scholar cited
- xxx. Adepoju T., F., **Okunola A. A.** and O.S. Dahunsi 2013 Experimental Investigation of Sand box Biodiesel performance in an internal Combustion Engine. *International Journal of Engineering Research and Technology* Vol. 2 (11) 3833 3855. Google Scholar cited
- xxxi. Adepoju T. F. and **Okunola A. A.** and O.S. Dahunsi 2013 Transeterification optimization of Neem (Acadirachia Indica) oil to Biodiesel and it's emission characterization. *International Journal of Engineering Research and Technology* Vol. 2 (11) 3856 3875 Google Scholar cited.
- xxxii. **Okunola A. A.**, J. C. Igbeka and C. O. Okunola, 2011 Comparison of water sorption characteristics of cocoyam and sweet potato in a stimulated storage environment, Journal of Food Science and Hospitality. Nigeria. 2(1) 56 62.
- xxxiii. Ajayi A. E., Dias Junior, M. S., Curi, N., **Okunola, A. A.**, Terteria Souza, T. T. and Silva Pires, B. 2010 Assessment of vulnerability of oxisoils to compaction in the Cerrado region of Brazil. *Pedosphere* 20(2): 252 260 Elsevier [Scopus indexed]
- xxxiv. **Okunola A. A.**, B. A. Adewumi and O. W. Faseyi 2007. Large scale grain storage structures and their management in the humid part of Nigeria. *NSE Technical Transactions* 42 (4) 31 40.
- xxxv. **Okunola, A. A.** and Igbeka J. C. 2007 Water Sorption characteristics of Plantain and Sweet Potato. *Medwell Journal of Food Technology*. 5(1):18 22. Google Scholar cited.
- xxxvi. Adewumi, B. A, **Okunola, A. A,** Adewumi O.O., B.O. Ajayi and Owoeye, O. C. 2006. Design and preliminary Testing of a milking machine for small ruminants. *Journal of Rural Technology*. 2 (6): 241 246. Centre for Scientific and Industrial Research, New Delhi. Indian citation indexed

xxxvii. Abulude, F. O; Ogunkoya M. O., **Okunola, A. A.** and Okunola C. O 2005: Phytate and selected mineral compositions of some common weeds in Ondo State,

Nigerian Journal of Scientific and Industrial Studies 3(1): 22-25.

### L. REFERRED CONFERENCE PROCEEDINGS

- i. Adekanye, T. A., A. Saleh, **A. Okunola**, I. Osavbie and K. Jegede 2020. Energy efficiency and use of a parametric method for poultry production in Kwara State, Nigeria *IOP Conf. Series: Earth and Environmental Science* 445 (2020) 012003 doi:10.1088/1755-1315/445/1/012003 **Scopus indexed**
- ii. **Okunola, A. A.**, Gana, J. A., Olorunfemi, K. O., Obaniyi, K.S., Olasehinde, D. A. and Osueke, C. O. 2020 Climate Change and Potential Environmental Hazards with Perspective Adaptation Technologies in Nigeria, A review *IOP Conf. Series: Earth and Environmental Science* 445 (2020) 012059 doi:10.1088/1755-1315/445/1/012059 **Scopus indexed**
- iii. Olabinjo, O. O., **Okunola, A. A.** and J. A. V. Olumurewa 2020 Genetically modified foods: pathway to food security *IOP Conf. Series: Earth and Environmental Science* e 445 (2020) 012041 doi:10.1088/1755-1315/445/1/012041 **Scopus indexed**
- iv. Olaleye, S. A., Arisoyin, A. G., Elemide, O. A. and **Okunola A. A.** 2020 Development of indigenous yam pounding machine for home use *IOP Conf. Series: Earth and Environmental Science* 445 (2020) 012010 doi:10.1088/1755-1315/445/1/012010 [Scopus indexed]
- v. Oyewole, S. N. Gbabe, E. K., Olayanju, A. M., adebiyi, A. O., Ogunbiyi, O. A. Abel, G. I., M. O. Ogundare, Adarabemin, I. G. Olayemi, F. F. and **Okunola, A. A.** 2020 Commercial utilization of inert atmosphere silo for maize storage IOP Conf. Series: Earth and Environmental Science 445 (2020) 012046 doi:10.1088/1755-1315/445/1/012046 [Scopus indexed]
- vi. Jongbo, A. O., I. Moorcroft, D. White, T. Norton and **A. A. Okunola** 2020 Evaluation of airflow movement within a broiler shed with roof ventilation system during summer IOP Conf. Series: Earth and Environmental Science 445 (2020) 012028 doi:10.1088/1755-1315/445/1/012028 [Scopus indexed]
- vii. Atoyebi, O. D. Orogbade B. O., Olayanju, T. M. A., **A. A. Okunola** and A J Oyetayo 2020 Effect of coir fibre and clayey soil on the strength of unglazed roofing tiles *IOP Conf. Series: Earth and Environmental Science 445* (2020) 012030 doi:10.1088/1755-1315/445/1/012030 **Scopus indexed** viii. Erinle, C. O, Olalusi A. P., Olayanju, T. M. A., **Okunola, A. A.** and Ajao, F. O. 2020 Some engineering properties and nutrient composition of selected pelletized fish feed in Nigeria *IOP Conf. Series: Earth and Environmental Science 445* (2020) 012006 doi:10.1088/1755-1315/445/1/012006 ix. Nayan G. Z., Takim, F. O., Aremu, C. O. and **A. A. Okunola** 2020 Effect of maize sweet potato intercrop over sole cropping system on weed infestation *IOP Conf. Series: Earth and Environmental Science 445* (2020) 012007 doi:10.1088/1755-1315/445/1/012007 **Scopus indexed**
- x. **Okunola A. A.** and A. Isaac. Bamgboye 2016 Evaluation of performance characteristics of local and high yield varieties milled rice in a cleaning and grading machine 4<sup>th</sup> CIGR AgEng 2016 Aarhus, Denmark 11pp
- xi. **Okunola A.A.** and A. I. Bamgboye 2014 Comparison of performance evaluation of raw and parboiled milled rice in a cleaning and grading machine. "Agricultural Engineering Infrastructure for Wealth Creation" 14<sup>th</sup> Nigerian Institution of Agricultural Engineers International Conference, Akure, Vol. 35, 330 335
- xii. **Okunola A. A.** and A. I. Bamgboye, 2011 Performance evaluation of a rice cleaning and grading machine CIGR Section VI International Technical Symposium Towards a sustainable food chain process Nantes, France, **Scopus indexed**
- http// www:impascience.eu/CIGR/510-proceedings/039\_posters-postharvest.pdf?

xiii. **Okunola A. A.** and A. I. Bamgboye, 2011 Development of a rice cleaning and grading machine CIGR Section VI International Technical Symposium Towards a sustainable food chain process Nantes, France.

http://www:impascience.eu/CIGR/510-proceedings/013\_sessions2.3postharvest.pdf? [Scopus indexed]

xiv. Okunola, C.O, **Okunola, A.A,** Abulude F.O and Ogunkoya M.O.2007, Organoleptic qualities of Maize and Cowpea stored with some essential oils. 8<sup>th</sup> African Crop Science Society Conference Vol. (8) 2113 - 2116. El Minia, Egypt.

# **Conference papers**

xv. **Okunola, AA**. 1995, Resuscitation of Mechanized Maize Planter. A case of Federal College of Agriculture Akure. 27<sup>th</sup> Annual Conference Nigerian Society of Agricultural Engineers 7pp.

xvi. **Okunola, A. A**. 1995: Equlibrium moisture content of some Tropical Agricultural Root Crops. 30<sup>th</sup> Annual Conference of Agricultural Society of Nigeria. 11 pp.

xvii. Okunola C. O. and **Okunola A. A.**, 2009 Acceptability and Sensory evaluation of Maize and Cowpea products stored with some essential oils. 9<sup>th</sup> African Crop Science Society Conference, South Africa. 8pp

xviii. Okunola C. O., M. O. Ogunkoya and **A. A. Okunola,** 2009 Effect of essential Plant oils on viability of stored Maize and Cowpea. 9<sup>th</sup> African Crop Science Society Conference, South Africa. 8pp

# **Technical papers**

(i) Okunola A. A. 1998: Maintenance Policy, Strategies and Equipment Maintenance Culture, Invited paper at a U.N.D.P. Assisted programme for small and medium scale Entrepreneur 4pp.

(ii) Okunola A.A. 2011. Modern palm oil processing and equipment maintenance. Paper presented for Ifesowapo Fadama Community Association Ode Omi, Irele Local government, Ondo State.

#### M. RESEARCH IN PROGRESS

(a) On going

Oil extraction / Storage stability of some agricultural crops (local pear, e.t.c.)

(b) Manuscripts Accepted for publication

Nil

- (c) Manuscripts under review:
  - **i.** Okunola, A. A., Adekanye, T.A, Okonkwo, C. E., Idahosa, E.O, Mohammed, K. Adewumi, A. D., Olayanju, A. T. and D. O. Chinedu Drying characteristics, kinetic modeling, energy and exergy analyses of water yam (Dioscorea alata) in a hot air dryer *Open Agriculture* [Scopus indexed]
  - ii. A.O. Dada, F. E. Dada, O. M. Bello, F.-A G. Adepoju, <u>Okunola, A. A.</u> and O. J. Awakan Green synthesis Characterization of rodlike / Trapezod manganese nanoparticles using calotropis procera extract. *CDC* [Scopus indexed]
  - iii.Okunola, A. A., Moses O.I., Dottie, E.P., Hussain, S.Z., Okonkwo, C. E. and Olaniran, A.F. Development and optimization of a novel cereal based ready-to-eat extruded snack from rice-cowpea composite. *Journal of Food and Preservation Engineering* [Scopus indexed]

# N. REVIEW OF ACADEMIC AND PROFESSIONAL JOURNALS.

i. Agricultural Engineering International CIGR E journal. An electronic journal of International Commission for Agricultural Engineering. (Reviewer / assessor on Food Processing Engineering since 2007)

- ii. Journal of Food Science and Technology. Association of Food Scientist and Technologist of India. (Reviewer since 2013)
- iii. Food Research International (Reviewer 2014)
- iv Nigerian Journal of Engineering and Applied Sciences (Reviewer 2016)
- v. FUOYEJET (Reviewer since 2016)
- vi. Journal of Engineering Research (Reviewer since 2019)
- vii. African Journal of Science, Technology, Innovation and Development (Reviewer since 2020)

### O. MEMBERSHIP OF PROFESSIONAL BODIES

- i. Nigeria Institution of Agricultural Engineers M 970
- ii. Nigerian Society of Engineers
- iii. American Society of Agricultural & Biological Engineers M1035245
- iv. African Crop Science Society
- v. Academy of Science South Africa

### P. DETAILS OF PROFESSIONAL ACCOMPLISHMENTS

Industrial Training, Federal Dept. Agriculture. Ibadan.

September, 1984

i. Installation of Rice Processing Mill, Erinmo. Osun State.

At Federal College of Agriculture, Akure,

June 1988 – 30/11/2014

- i Establishment of Metal Fabrication Workshop
- ii Resuscitation of a combine planter
- iii Production of teaching aids from machinery scraps
- iv Resuscitation of a generator/welder machine
- v Fabrication of a low cost incinerator
- vi Resuscitation of a grain dryer
- vii Construction & Testing of a solar dryer
- viii Establishment of welding crucible in college workshop.
- ix Installation of Drip irrigation system
- x Short course instructor: Forest Equipment Maintenance & Management
- xi Short course instructor: Value chain in cassava processing & equipment maintenance
- xii. Development of a cereal cleaner.
- xiii. Installation of Rice Processing Mill, Igbemo, Ekiti State.
- xiv. Installation of Pneumatic Sorting Machine, A.D.P. Ondo State.
- xv. Construction and erection of road signs on FECA roads
- xvi. Construction of household metal storage bin

At Landmark University, Omu Aran,

20<sup>th</sup> October 2012 - Date

- xvi. Supervision on construction of tractor driving stands
- xvii. Optimization of oil extraction and its characterization
- xviii. Production of Biodiesel from some agricultural crops and waste vegetable oil
- xix. Production of Bio gas from agricultural waste
- xx. Development of Multipurpose cereal cleaner
- xxi. Development of rice processing machines
- xxii. Establishment of rice processing mill

## Q. CONFERENCES ATTENDED

• Landmark University Executive Advance, 5<sup>th</sup> – 7<sup>th</sup> January, 2022

- COREN Outcome-Based Education in Engineering Evaluators Training Workshop, Nile University, Abuja 29/11/2021-3/12/2021
- NFTC Outcome Based Education Training by Chuan Teilk & Arif Bülent Özgüler FEIAP Zoom meeting 30 October 2021
- NFTC Engineering Education Seminar by Tan Yean Chin & Lee Boon Chong FEIAP Zoom meeting 22 October 2021
- United Nations Food Systems Summit "Foodforall" Italy, 23 September 2021 Google meeting
- NFTC Outcome Based Education Training No. 5 Part I & II, by Chuan Teilk FEIAP Zoom meeting 17 & 24 September 2021
- NFTC Forum on Engineering Personnel Registration Chuah Hean Teik and Tan Yean Chin zoom meeting 02/09/2021
- SGE webinar- Expanding from food fraud surveillance to the detection of unknown risks in the supply chain by N. Colombo and D. Psomiadis Google meeting 01/09/2021
- UN-Food System Summit (Pre-Summit) Italy, 26 28 July, 2021 (virtual participation)
- Responding to prevailing critical security challenges in tertiary institutions and hospitals,
   Organized by Association of Heads of Security of Tertiary Institutions, 26 29<sup>th</sup> July 2021.
   Centre for Management Development, Lagos.
- SGS Webinar, Winning product safety culture for packaging and logistics companies by Jeremy Chamberlain Google meeting 15th July 2021
- SGS Webinar, A Practical Exercise in Conducting Food Defense Vulnerability Assessments in the 21st Century by Curtis Hayes and Donald Smith Google meeting 22/06/2021
- NFTC Outcome Based Education Training No. 3, FEIAP Zoom meeting 11 12/06/2021
- COREN Webinar Implementation of the Outcome based Education in Engineering in Nigerian Universities Zoom meeting 26/05/2021
- SGS Webinar- Measure and improve your food safety culture by Jeremy Chamberlain Google meeting 28/04/2021
- SGS Academy Learning Re-Imagined Series: Blended Learning Google meeting 21/04/2021
- International webinar Africa, Asia and Pacific Accord on Engineering Education Zoom meeting 16/04/2021
- SGS webinar- Realize: A winning culture of food safety by Jeremy Chamberlain Google meeting 24/02/2021
- Drone Technology and Agriculture Industry; College of Engineering Webinar, Landmark University, Omu Aran, Zoom meeting 8 & 9 March 2021.
- SGS Academy Learning Re-Imagined Series: eLearning best practices Google meeting 03/02/2021
- 1<sup>st</sup> ABE Landmark University International Webinar Food Physical Processing: Review and progress presented by Haile Ma Jiangsu University, China. VOOV meeting 29/01/2021 https://meeting.tencent.com/s/syCHVHAWVKVV
- Landmark University Executive Advance, 7<sup>th</sup> 9<sup>th</sup> January, 2021
- MASHAV Webinar Reduction of Food losses by retail packaging Zoom meeting 1/12/2020

- $20^{th}$  International Conference of Nigerian Institution of Agricultural Engineers Landmark University, Omu Aran ,  $18-21^{th}$  September 2019.
- Sensitization Workshop on Implementation of Outcome Based Education Process in Accreditation of Engineering Programmes in Nigerian Universities, Council For Regulation of Engineering in Nigeria, Abuja. 22 23 August, 2019
- 28<sup>th</sup> Engineering Assembly in Nigeria, Council for the Regulation of Engineering in Nigeria, Abuja, 19 21<sup>st</sup> August 2019
- Advanced Digital appreciation program for Tertiary Institutions: Statistical package for Social Sciences, Landmark University, Omu Aran 24- 28<sup>th</sup> June 2019
- 12<sup>th</sup> CIGR Section VI International Symposium, IITA, Ibadan 22<sup>nd</sup> 25<sup>th</sup> October 2018
- Research Grants Sourcing and Proposal Writing, Federal Universuty of Agriculture, Abeokuta. 10 – 11<sup>th</sup> October 2018
- 19<sup>th</sup> International Conference of Nigerian Institution of Agricultural Engineers EKO 2018, 10 14<sup>th</sup> September 2018.
- AWARD Leadership and Management Skills Course, Covenant University, Ota, 3<sup>rd</sup> 5<sup>th</sup> September 2018
- 27<sup>th</sup> Engineering Assembly in Nigeria, Council for the Regulation of Engineering in Nigeria, Abuja, 6 8<sup>th</sup> August 2018
- Landmark University Executive Advance, 13 14th August, 2018
- Building Agribusiness Relations for Sustainable Profit, ICRA Professional Capacity Building International Programme, Ibadan, Nigeria. 18 – 23 June 2018
- Agricultural Revolution Impact: Roadmaps and Prospects, Town-Gown Symposium,
   College of Agricultural Sciences, Landmark University, February 2018
- Special Marshal Induction Training, Federal Road Safety Corps, RS8.1 Kwara State 24<sup>th</sup> August 2017
- Landmark University Executive Advance, 22<sup>nd</sup> 23<sup>rd</sup> August, 2017
- $26^{th}$  Engineering Assembly in Nigeria, Council for the Regulation of Engineering in Nigeria, Abuja,  $7-9^{th}$  August, 2017
- 37<sup>th</sup> Annual Conference and AGM Nigerian Institution of Agricultural Engineers, Federal University of Technology, Minna, 4<sup>th</sup> 7<sup>th</sup> October, 2017.
- Landmark University Special Capacity Building Programme 17 -18th February 2017
- Landmark University Executive Advance, 18th 12th August, 2016.
- 4<sup>th</sup> CIGR AgEng International conference, Arhus University, Denmark. 26 30<sup>th</sup> June, 2016.
- Landmark University Executive Advance,  $18^{th} 20^{th}$  November, 2015
- Workshop on web searching for Agricultural Scientists and Development Officers Agric Rural & Management Training Institute, Ilorin, 13<sup>th</sup> – 17<sup>th</sup> October, 2014
- 14<sup>th</sup> International Conference and 35<sup>th</sup> AGM, Nigerian Institution of Agricultural Engineers, Federal University of Technology, Akure. 22- 26 September, 2014
- 13<sup>th</sup> International Conference and 34<sup>th</sup> AGM, Nigerian Institution of Agricultural Engineers, University of Uyo, Uyo. 21- 24 October, 2013.
- Strategic Meeting on Agricultural Transformation Consolidation in Ondo State, CCE Hilltop Auditorium, Federal University of Technology, Akure. 2<sup>nd</sup> November, 2011.

- 11<sup>th</sup> International Conference and 32<sup>nd</sup> AGM, Nigerian Institution of Agricultural Engineers, Banquet hall, Government house, Ilorin, 17<sup>th</sup> 20<sup>th</sup> October, 2011.
- Congress of International Agricultural Engineers Section VI International Technical Syposium towards a sustainable food chain process Nantes, France 18<sup>th</sup> to 20<sup>th</sup> April, 2011.
- 1<sup>st</sup> International Conference on Interdisciplinary Cooperation "Panacea to food insecurity" Rufus Giwa Polytechnic, Owo, Nigeria 7<sup>th</sup> to 10<sup>th</sup> February 2011
- 1<sup>st</sup> International Conference on Engineering and Technology Research LAUTECH, Ogbomosho., Nigeria 28<sup>th</sup> 30<sup>th</sup> September, 2010
- Public Presentation of the Ondo State Component of Vision 20 2020 and Flag off of the Preparation of the State Medium Plan, A & T Presidential hotel, Akure, Ondo State. 19<sup>th</sup> January, 2010.
- 9<sup>th</sup> African Crop Science Society Conference, Cape Town, South Africa. 28<sup>th</sup> September 1<sup>st</sup> October, 2009.
- Skill Gap Audit Workshop on CAVA I (Cassava adding Value to Africa), Federal College of Agriculture, Akure, Nigeria. 29<sup>th</sup> 31<sup>st</sup> January, 2009.
- 3<sup>rd</sup> West African Society of Agricultural Engineers International Conference Obafemi Awolowo University, Ile Ife, Nigeria. 28 29<sup>th</sup> January, 2009.
- 9<sup>th</sup> Nigerian Institution of Agricultural Engineers International Conference Obafemi Awolowo University, Ile Ife, 26 & 27 January, 2009.
- Advance Computer Appreciation Course, Digital Bridge Institute, Ilorin. 2 6 June, 2008.
- Nigeria / UNESCO Project for the Reform and Revitalization of Nigeria's Science and Technology Innovation system: South West Zonal Sensitization Workshop, International House, IITA, Ibadan. 3<sup>rd</sup> March, 2008.
- International R& D Workshop on Agricultural Engineering Technologies. Agricultural Engineering Institute Bet Dagan, Israel, 18<sup>th</sup> –31<sup>s t</sup> October, 2006.
- 33nd Annual Conference of Entomological Society of Nigeria, I.T.C. auditorium Ilorin, 6<sup>th</sup> 9<sup>th</sup> October, 2002
- Workshop on skills in Scientific and Technical reports writing. Agricultural and Rural (Management Training Institute, Ilorin, 17<sup>th</sup> 21<sup>st</sup> October, 2001.
- 1<sup>st</sup> International Conference of Nigeria Institute of Agricultural Engineers, University of Ibadan, Ibadan 11<sup>th</sup> 15<sup>th</sup> September, 2000.
- Executive Administrative Skill and Management Workshop Conference Centre, University of Ibadan  $25^{th} 28^{th}$  July, 2000
- Management of fixed Asset in the Agric. & Rural Development Projects, at Agric Rural & Management Training Institute, Ilorin, 5<sup>th</sup> 9<sup>th</sup> June 2000.
- Education summit "Towards improving middle level and Managerial Manpower Training in the New Millennium organized by Academic Staff Union of Colleges of Agriculture at ARMTI, Ilorin 29<sup>th</sup> March, 2000.
- 31<sup>st</sup> Annual Conference of Nigeria Society of Agricultural Engineers Bauchi Nigeria 11<sup>th</sup> 14<sup>th</sup> September, 1999.
- Effective Management Training Course Agric. Rural & Management Training Institute, Ilorin, Nigeria 7<sup>th</sup> – 11<sup>th</sup> June, 1999
- 30<sup>th</sup> Annual Conference of Nigeria Society of Agricultural Engineers Lagos, 9<sup>th</sup> 11<sup>th</sup> September, 1998.
- 8<sup>th</sup> Engineering Assembly in Nigeria, Council for the Regulation of Engineering in Nigeria, Port Harcourt, 26 28<sup>th</sup> August, 1998.

- Project Proposal Presentation and Equipment Maintenance Culture Workshops, Ministry of Commerce and Industries in collaboration with United Nations Development Programme 20<sup>th</sup> & 22<sup>nd</sup> May, 1998.
- Dry Milling of Cereals and Legumes Technology Workshop, Federal Institute of Industrial Research, Oshodi, 16<sup>th</sup> – 19<sup>th</sup> September, 1997
- 30<sup>th</sup> Annual Conference of Agricultural Society of Nigeria, Ekpoma 5<sup>th</sup> 8<sup>th</sup> December, 1995.
- 27<sup>th</sup> Annual Conference of Nigeria Society of Agricultural Engineers, Akure, 25<sup>th</sup> 28<sup>th</sup> April 1995.
- Laboratory Management for Maximum Utilization, 6<sup>th</sup> National Seminar on Managing Resources for Effective Technological Manpower Training in Agriculture organized by N.BT.E at Federal College of Agriculture, Akure May 10<sup>th</sup> 12 <sup>th</sup>, 1994.
- Field Day Workshop on Storage Technique, organized by Crop Storage Unit and National Agricultural Extension Research Liaison Services, Ibadan 7<sup>th</sup> April 1994.
- 1<sup>st</sup> Engineering Assembly in Nigeria, Council for the Regulation of Engineering in Nigeria, Lagos, 25<sup>th</sup> March, 1993.
- National Curriculum Development Workshop for trainee of Agricultural Machinery Mechanics and Tractor Operator's Training Center (AMMOTRAC) Akure, September, 1990.
- Field Crop Sprayers Course, Staffordshire College of Agriculture, England17<sup>th</sup> July, 1990
- Chainsaw Technicians Course, Staffordshire College of Agriculture, England. 7<sup>th</sup> 9<sup>th</sup> August, 1990,
- Basic chainsaw Operators Course, Staffordshire College of Agriculture, England. 7<sup>th</sup> 9<sup>th</sup> August, 1990
- Training of Trainers in Agricultural Machinery organized by Centre for Training and Promotion of Agriculture Le Chesnoy, France at National Centre for Agricultural Mechanization, Ilorin 14<sup>th</sup> 25<sup>th</sup> February, 1989.

# R. UNDER GRADUATE / GRADUATE PROJECT SUPERVISION (Selected topics)

- i. Biogas production from selected agricultural residues
- ii. Biogas production from co-digestion of plant material and cattle dung with kitchen waste and poultry droppings
- iii. Biogas production from agricultural and biological materials (food waste, human excreta and sheep dung)
- iv. Design, construction and testing of a multi crop cleaner
- v. Performance evaluation of multi grain cleaner on groundnut and cowpea
- vi. Design, construction and evaluation of a portable rice parboiler
- vii. Development of a wet locust beans dehuller cum washing machine
- ix. Development of Solar Powered Automatic Controlled Fan for Poultry Pen
- x. Effects of freeze-thaw, micro-wave, and infrared pretreatments on the drying characteristics of unripe plantain chips

#### **Master's Dissertation**

- i. Analysis of Energy and Exergy of Drying Process of Some Selected Crops in a Multi-Purpose Dryer
- ii. Development of a fortified cereal based ready-to-eat snack though extrusion cooking technology

#### S. EXTRA CURRICULA

# (a) Within Higher Institution

Member, FECA, Market Linkages, Training & Media Committee February, 2010 – 2014 Member FECA Evaluation of Innovations & Technologies Committee February 2010 – 2014 Chairman, FECA Alumni Committee 2005 - 2008Chairman, FECA Development and Endowment Committee, 2003 - 2014Member, FECA College Loan Committee, July 1996 – July. 1997 Member, FECA Housing Allocation Committee, July, 1996 – November, 2001 Member, FECA Consult November, 1995 – July 2003 Member, FECA Students' Project Committee, July 1992 – September, 1993 Adviser, Christian Students' Association of Nigeria FECA Chapter, 1989 - 1991 June 1989 – October, 1990 Hall Master, FECA Member, FECA College Security Committee, 1989 - 1990

# (b) Outside Higher Institution

Technical Secretary, L.O.C. 20<sup>th</sup> International Conference of N.I.A.E. Omu Aran Member, L.O.C. 34<sup>th</sup> National Conference / AGM of N.I.A.E. Akure September, 2014 Secretary, Security Committee, Landlord / Residents Association, Ijapo, Akure. Member, L.O.C. 27<sup>th</sup> National Conference / AGM of N.S.A.E. Akure 1995

### Name and Address of Referees

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