



CURRICULUM VITAE

A. BIO DATA

1. Name: **OKUNOLA**, Abiodun Afolabi
2. Date of Birth: 27th 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, 08069206101
13. E- mail: okunola.abiodun@lmu.edu.ng
14. Present Position: Senior Lecturer / Associate Professor (*Prima Farcie Qualified*)
15. Current Salary: LUSS12 Step10

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 (*Prima Farcie Qualified*) 2019
- ii. Senior Lecturer, LMU, Dept of Agric. & Biosystems Engineering 1/12/14 - 2019
- 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 Agriculture, Akure. 1/10/1998 – 30/9/2001
- vii. Lecturer I, Dept. of Agric. & Bio- Environ. Engineering, Federal College of Agriculture, Akure. 1/10/1995 – 30/9/1998
- viii. Lecturer II, Dept. of Agric. & Bio- Environ. Engineering, Federal College of Agriculture, Akure. 1/10/1992 – 30/9/1995
- ix. Lecturer III, Dept. of Agric. & Bio- Environ. Engineering, Federal College of Agriculture, Akure. 7/06/1988 – 30/9/1992

(b) Administrative Position Held

- i. Dean, Directorate of Student Affairs, Landmark University 2020 - Date
- ii. Director, Landmark University Centre for Agricultural Mechanization 05/09/2019 – 05/01/2021
- iii. 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. Head, Department of Agric. Engineering FECA 1999 – 2004; 2007 – 2011
- iv. Head of Section, Engineering and Mechanization FECA 1989 – 1992

E. ADMINISTRATIVE ASSIGNMENTS / COMMUNITY SERVICES

- i. Member, Landmark University Senate 2015 -2018 & 2020 – Date
- ii. Member, University Central Management Board 2020 -Date
- iii. Member, Landmark University Faculty Staff Disciplinary Committee 2020 -Date
- iv. Member, Landmark University Students Disciplinary Committee 2020 - Date
- v. Member, Landmark University Postgraduate Students Disciplinary Committee 2020/21
- vi. Member, LUCAM Board 2019 - 2020
- vii. Member, Landmark Bamboo Initiative Group 2019 - 2020
- viii. Chair, College of Engineering Accreditation Committee 2019 - 2020
- ix. Member, Landmark University Accreditation Committee 2017 - 2020
- x. 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 10th February, 2017 -2019
- xvi. Member, LMU Transportation Committee 1st December, 2016 - 2019
- xvii. Member, LMU Quality Assurance Committee 16th 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 Aran. 7th Nov. 2014
- xxvii. Resource Person, Career talk, Adeoti College, Omu Aran 14th November, 2014

- xxviii. Member, ABE Dept. Laboratory / Workshop Committee 1st December, 2014 - 2015
- xxix. Member, Landmark University Engineering Equipment Committee 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 State 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 Government Establishment in Nigeria, Ondo State Chapter. (1989 – 2002; 2008 - 2011)
- xxxvi. Resource Person, **N.B.T.E.** accreditation, Federal Polytechnic Nekede Owerri 1st – 5th November, 2004.
- xxxvii. Resource Person, **N.B.T.E.** accreditation, Lagos State Polytechnic, Ikorodu 2nd – 5th October, 2001.

F. COURSES TAUGHT

(a) In Landmark University, Omu Aran, Nigeria. 2012 - Date
Post Graduate

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

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)
- vi. Total Man Concepts (TMC 121, 211, 311, 411, 421, 511 & 521)
- vii. Technical Communications (GEC 324)
- viii. Design, analysis and Management of Storage Structures (ABE 413)
- ix. Introduction to Crop Production (ABE 314)
- 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

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

G. SCHOLARSHIPS, FELLOWSHIPS AND AWARDS / ACADEMIC LINKAGES

- i. Excellent leadership award as Acting HOD, ABE 2018 / 2019

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|-------|---|-------------|
| 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 Conference | 2016 |
| viii. | MASHAV / CINADCO linkage for capacity building | 2015 |
| ix. | Life member & Fellow, Nigerian Institution of Agricultural Engineers | 2009 / 2018 |
| x. | MASHAV Award: International Workshop on R & D in Agric. Engineering | 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)

- 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 Scholar-indexed]
- 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(li) And Zn(li) 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]
- xiii. *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]
- xvi. *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 HCl *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]
- xviii. ***Okunola, A., A.** Isaac Bamgboye, A., Olayanju, 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]
- xix. *Osueke 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]
- xxi. *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.
- xx. * **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 indicum* 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 Transesterification 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:

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. Orogade 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 4th 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" 14th 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](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?](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. 8th 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. 27th Annual Conference Nigerian Society of Agricultural Engineers 7pp.

xvi. **Okunola, A. A.** 1995: Equilibrium moisture content of some Tropical Agricultural Root Crops. 30th 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. 9th 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. 9th 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, **Okunola, A. A.** and O. J. Awakan Green synthesis Characterization of rodlike / Trapezoid 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. June 1988 – 30/11/2014
At Federal College of Agriculture, Akure,
 - 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 20th October 2012 - Date
At Landmark University, Omu Aran,
 - 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

- United Nations Pre-Summit

- Responding to prevailing critical security challenges in tertiary institutions and hospitals, Organized by Association of Heads of Security of Tertiary Institutions, 26 – 29th 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
- 1st 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>
- MASHAV Webinar Reduction of Food losses by retail packaging Zoom meeting 1/12/2020
- 20th International Conference of Nigerian Institution of Agricultural Engineers Landmark University, Omu Aran , 18 – 21th 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
- 28th Engineering Assembly in Nigeria, Council for the Regulation of Engineering in Nigeria, Abuja, 19 – 21st August 2019
- Advanced Digital appreciation program for Tertiary Institutions: Statistical package for Social Sciences, Landmark University, Omu Aran 24- 28th June 2019
- 12th CIGR Section VI International Symposium, IITA, Ibadan 22nd - 25th October 2018
- Research Grants Sourcing and Proposal Writing, Federal University of Agriculture, Abeokuta. 10 – 11th October 2018
- 19th International Conference of Nigerian Institution of Agricultural Engineers EKO 2018, 10 – 14th September 2018.
- AWARD Leadership and Management Skills Course, Covenant University, Ota, 3rd – 5th September 2018

- 27th Engineering Assembly in Nigeria, Council for the Regulation of Engineering in Nigeria, Abuja, 6 – 8th 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 24th August 2017
- Landmark University Executive Advance, 22nd – 23rd August, 2017
- 26th Engineering Assembly in Nigeria, Council for the Regulation of Engineering in Nigeria, Abuja, 7 – 9th August, 2017
- 37th Annual Conference and AGM Nigerian Institution of Agricultural Engineers, Federal University of Technology, Minna, 4th – 7th October, 2017.
- Landmark University Special Capacity Building Programme 17 -18th February 2017
- Landmark University Executive Advance, 18th – 12th August, 2016.
- 4th CIGR AgEng International conference, Arhus University, Denmark. 26 – 30th June, 2016.
- Landmark University Executive Advance, 18th – 20th November, 2015
- Workshop on web searching for Agricultural Scientists and Development Officers Agric Rural & Management Training Institute, Ilorin, 13th – 17th October, 2014
- 14th International Conference and 35th AGM, Nigerian Institution of Agricultural Engineers, Federal University of Technology, Akure. 22- 26 September, 2014
- 13th International Conference and 34th 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. 2nd November, 2011.
- 11th International Conference and 32nd AGM, Nigerian Institution of Agricultural Engineers, Banquet hall, Government house, Ilorin, 17th – 20th October, 2011.
- Congress of International Agricultural Engineers Section VI International Technical Syposium towards a sustainable food chain process Nantes, France 18th to 20th April, 2011.
- 1st International Conference on Interdisciplinary Cooperation “Panacea to food insecurity” Rufus Giwa Polytechnic, Owo, Nigeria 7th to 10th February 2011
- 1st International Conference on Engineering and Technology Research LAUTECH, Ogbomosho., Nigeria 28th – 30th 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. 19th January, 2010.
- 9th African Crop Science Society Conference, Cape Town, South Africa. 28th September – 1st October, 2009.
- Skill Gap Audit Workshop on CAVA I (Cassava adding Value to Africa), Federal College of Agriculture, Akure, Nigeria. 29th – 31st January, 2009.
- 3rd West African Society of Agricultural Engineers International Conference Obafemi Awolowo University, Ile Ife, Nigeria. 28 – 29th January, 2009.
- 9th 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. 3rd March, 2008.
- International R& D Workshop on Agricultural Engineering Technologies. Agricultural Engineering Institute Bet Dagan, Israel, 18th –31st October, 2006.
- 33rd Annual Conference of Entomological Society of Nigeria, I.T.C. auditorium Ilorin, 6th – 9th October, 2002
- Workshop on skills in Scientific and Technical reports writing. Agricultural and Rural (Management Training Institute, Ilorin, 17th – 21st October, 2001.
- 1st International Conference of Nigeria Institute of Agricultural Engineers, University of Ibadan, Ibadan 11th – 15th September, 2000.
- Executive Administrative Skill and Management Workshop Conference Centre, University of Ibadan 25th – 28th July, 2000
- Management of fixed Asset in the Agric. & Rural Development Projects, at Agric Rural & Management Training Institute, Ilorin, 5th – 9th 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 29th March, 2000.
- 31st Annual Conference of Nigeria Society of Agricultural Engineers Bauchi Nigeria 11th – 14th September, 1999.
- Effective Management Training Course Agric. Rural & Management Training Institute, Ilorin, Nigeria 7th – 11th June, 1999
- 30th Annual Conference of Nigeria Society of Agricultural Engineers Lagos, 9th – 11th September, 1998.
- 8th Engineering Assembly in Nigeria, Council for the Regulation of Engineering in Nigeria, Port Harcourt, 26 – 28th August, 1998.
- Project Proposal Presentation and Equipment Maintenance Culture Workshops, Ministry of Commerce and Industries in collaboration with United Nations Development Programme 20th & 22nd May, 1998.
- Dry Milling of Cereals and Legumes Technology Workshop, Federal Institute of Industrial Research, Oshodi, 16th – 19th September, 1997
- 30th Annual Conference of Agricultural Society of Nigeria, Ekpoma 5th – 8th December, 1995.
- 27th Annual Conference of Nigeria Society of Agricultural Engineers, Akure, 25th – 28th April 1995.
- Laboratory Management for Maximum Utilization, 6th National Seminar on Managing Resources for Effective Technological Manpower Training in Agriculture organized by N.B.T.E at Federal College of Agriculture, Akure May 10th – 12th, 1994.
- Field Day Workshop on Storage Technique, organized by Crop Storage Unit and National Agricultural Extension Research Liaison Services, Ibadan 7th April 1994.
- 1st Engineering Assembly in Nigeria, Council for the Regulation of Engineering in Nigeria, Lagos, 25th 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, England 17th July, 1990
- Chainsaw Technicians Course, Staffordshire College of Agriculture, England. 7th – 9th August, 1990,

- Basic chainsaw Operators Course, Staffordshire College of Agriculture, England. 7th – 9th 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 14th – 25th February, 1989.

R. UNDER GRADUATE / GRADUATE PROJECT SUPERVISION

- Biogas production from selected agricultural residues
- Biogas production from co-digestion of plant material and cattle dung with kitchen waste and poultry droppings
- Biogas production from agricultural and biological materials (food waste, human excreta and sheep dung)
- Design, construction and testing of a multi crop cleaner
- Performance evaluation of multi grain cleaner on groundnut and cowpea
- Design, construction and evaluation of a portable rice parboiler
- Development of a wet locust beans dehuller cum washing machine
- Development of Solar Powered Automatic Controlled Fan for Poultry Pen

Master's Dissertation

- Analysis of Energy and Exergy of Drying Process of Some Selected Crops in a Multi-Purpose Dryer
- Development of a cereal based ready to eat snack through 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 – 2008
Chairman, FECA Development and Endowment Committee,	2003 – 2014
Member, 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
Hall Master, FECA	June 1989 – October, 1990
Member, FECA College Security Committee,	1989 – 1990

(b) Outside Higher Institution

Technical Secretary, L.O.C. 20 th International Conference of N.I.A.E. Omu Aran	2019
Member, L.O.C. 34 th National Conference / AGM of N.I.A.E. Akure	September, 2014
Secretary, Security Committee, Landlord / Residents Association, Ijapo, Akure.	2009 - 2020
Member, L.O.C. 27 th National Conference / AGM of N.S.A.E. Akure	1995

Name and Address of Referees

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