

DIRECTOR OPERATIONS/LAB ANALYST

PROF. MOSHUDI ISIAKA

Department: Agric. Engineering.
Date & Place of Birth: 18th May, 1964, Ihima
State of Origin: Kogi
L.G.A. : Okehi
Nationality: Nigerian
Marital Status: Married
Gender: Male
International Language Spoken: English
Current Contact Address: Dept. of Agric. Engineering, IAR/ABU, Zaria
Permanent Home Address: No 8 Lagos Road, Ihima
Date of First Appointment with the University: Feb., 1996
Present Rank: Professor

QUALIFICATIONS, EDUCATIONAL INSTITUTION FROM WHERE OBTAINED DATES:

<u>Qualification</u>	<u>Institution</u>	<u>Date</u>
WASC (O-Level)	Federal Government College, Kano	1983
IJMB (A-Level)	Kwara Polytechnic, Ilorin	1985
B.Eng (Agric. Engineering)	A.B.U. Zaria	1989
M.Sc (Agric. Engineering) (Farm Power & Machinery)	A.B.U. Zaria	2000
Ph.D (Agric. Engineering)	A.B.U. Zaria	2009

WORKING EXPERIENCE WITH DATE:

<u>Organization</u>	<u>Position Held</u>	<u>Responsibility</u>
The Polytechnic Birnin Kebbi	Lecturer III	- Lecturing of National Diploma and Higher National Diploma students, and supervision of students projects -1993 Examination Officer 1990-92
The Polytechnic Birnin Kebbi	Lecturer II	- Lecturing of ND and HND students and supervision of students projects 1993- - Departmental SIWES Officer 1993-96

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Institute for Agricultural Research, Ahmadu Bello University, Zaria. 1996 to date

ROUTINE ADMINISTRATIVE DUTIES WITH DATES:

- Acted for Programme Leader, Agric. Mechanization Research Programme in several occasions from 2009 to 2012.
- Programme Leader, Agric. Mechanization Research Programme 2013 to 2017
- Head of Department, Agricultural Engineering Department

PROFESSIONAL SERVICE/HONOUR SOCIETIES:

- **Member**, Nigerian Institution of Agricultural Engineers (NIAE)
- **Member**, Nigerian Society of Engineers (NSE)
- **COREN** Registered Engineer

COMMUNITY SERVICES:

a) Nation/State:

b) University/Institute/Centre/Faculty/Department:

- Member, On Farm Adaptive Research/Technology Review Meeting of Kaduna State ADP 2004 to 2013
- Member, Faculty of Engineering Academic Calendar Committee 2004 to 2006
- Member, Faculty of Eng'g Dress Code Implementation Committee 2005 to 2007
- Member, Management Committee of IAR Integrated Links Limited 2009 to date
- Member, D. A. C. Professional and Academic Board 2010 to 2011
- Member, Fac. Of Eng'g Teaching/Exam. Monitoring Committee 2011 to 2012
- Member, Departmental Fund Mobilization Committee 2011 to 2014
- Member, Committee on IAR Strategic Plan 2012

c) Others:

- Member, Local Organizing Committee of NIAE International Conference 2006
- Secretary, Area G Extension Quarter Community Mobilization 2008 to date

CONFERENCES ATTENDED WITH DATES:

- 1st International conference of the Nigerian Institution of Agricultural Engineers held in 2000 at University of Ibadan, Ibadan Nigeria.
- 3rd International conference of the Nigerian Institution of Agricultural Engineers held in 2002 at Shehu Musa Yar'adua Conference Hall, Abuja-Nigeria.
- 7th International conference of the Nigerian Institution of Agricultural Engineers held in 2006 at NAERLS Conference Hall, Zaria-Nigeria.
- 8th International Conference of the Nigerian Institution of Agricultural Engineers held in 2007 at Multi-Purpose Hall, Federal University of Technology, Yola – Nigeria.
- 10th International Conference of the Nigerian Institution of Agricultural Engineers held in 2010 at Olive Gate Hotel, Enugu – Nigeria.
- 11th International Conference of the Nigerian Institution of Agricultural Engineers held in 2011 at the Main Auditorium of the University of Ilorin, Ilorin – Nigeria.
- National Workshop on Post-harvest Food Loss Prevention held on June 2-4, 1998 at Arewa House Kaduna, Kaduna State.
- National Training Workshop on Process Equipment Design held on December 9 – 10, 2009 at Centre for Management Development, Management Village, Shangisha, Ikeja Lagos.
- 2014 Nigeria Engineering Conference held on September 15 - 18, 2014 at Faculty of Engineering, Ahmadu Bello University, Zaria, Kaduna State.
- 36th Annual Conference of the Nigerian Institution of Agricultural Engineers held in

2015 at State Secretariat, Katsina.

PUBLICATIONS/ARTICLES:

a) i. Peer reviewed journals.

- i. **Isiaka, M.,** M. L.Suleiman, A. M. El-Okene and U. S. Muhammad (2000) Development of two-row animal drawn seed planter. Savanna Journal of Agricultural Mechanization. Vol. 2, No 1, Pgs 29-32.
- ii. **Isiaka, M.,** A. M. I. El-Okene and M. L. Suleiman (2001) Comparative study of three planting methods for small and medium scale farms. Savanna Journal of Agricultural Mechanization. Vol. 3, No 1.
- iii. Abubakar, L. G., U. S. Mohammed and **M. Isiaka** (2005) Theoretical analysis for the design of a variable plant spacing rotary jab planter. Nigerian Journal of Engineering. Vol. 12, No 1, Pgs 42-53.
- iv. **Isiaka M.** and L. G. Abubakar (2009) Assessment of IAR sorghum thresher for entire shoot threshing of cowpea. Nigerian Journal of Engineering. Vol. 15, No 2, Pgs 21 - 25.
- v. **Isiaka, M.,** A. M. I. El - Okene and U. S. Muhammed (2012) Effect of selected factors on drying process of tomato in forced convection solar energy dryer. Research Journal of Applied Sciences, Engineering and Technology. Vol. 4, No. 19, pgs 3637 -3640
- vi. **Isiaka, M.,** N. E. Ndon, U. S. Muhammed and M. Abdulsalam (2012) Design related physical properties of castor seeds. Research Journal of Applied Sciences, Engineering and Technology. Vol. 4, No. 23, Pgs 5157 – 5161.
- vii. Muhammad, U. S., L. G. Abubakar, **M. Isiaka** and R. M. Davies (2013) Design and evaluation of cleaning machine. Applied Science Reports. Vol. 1, No. 3, Pgs 62 – 66.
- viii. Isiaka **M.** (2013). Quality assessment of solar energy dried tomato flakes. Arid Zone Journal of Engineering, Technology and Environment. Vol. 9, Pgs 1 – 7.
- ix. Salawu, A. T., M. L. Suleiman and **M. Isiaka** (2013). Physical properties of jatropha curcus seed. Electronic Journal of Polish Agricultural Universities. Vol. 16, No. 4, Pgs 1 – 8.
- x. Salawu, A. T., **M. Isiaka** and M. L. Suleaiman (2013). Design related mechanical properties of jatropha curcus seeds. Global Journal of Engineering and Applied Sciences. Vol. 3, No. 4, Pgs 199 – 203.

- xi Shittu, S. K., **M. Isiaka**, A. M. I. El-Okene and M. L. Suleiman (2013). Effect of weather condition, packaging material and storage duration on quality of dried tomato slice. *Int. J. Postharvest Technology and Innovation*. Vol. 3, No. 4, Pgs 347 – 361.
- xii Shittu, S. K., and **M. Isiaka** (2013). Storage stability of dried tomato slice. *Int. J. Agric. and Biol. Eng.* Vol. 6 No. 4, Pgs 104 - 110.
- xiii Salawu, A. T., **M. Isiaka** and M. L. Attanda (2014). Design related physical properties of snake tomato seeds. *Academic Research International*. Vol. 5, No. 1, Pgs 1 – 10.
- xiv Mohammed, U. S., M. L. Suleiman, O. J. Mudiare and **M. Isiaka** (2014). Effect of knife weight on cutting energy and efficiency during impact cutting of sorghum stalk. *Journal of Engineering and Technology (JET)* Vol. 9, No. 1, Pgs 12 – 18.
- xv **Isiaka, M.** (2014). Thin-layer drying characteristics of sliced tomato under forced convection solar energy drying. *Journal of Engineering and Technology (JET)* Vol. 9, No. 1, Pgs 41 – 50.
- xvi Salawu, A. T., **M. Isiaka** and M. L. Suleiman (2015). Development of an oil extraction machine for *jatropha curcas* seeds. *Journal of Scientific Research and Reports*. Vol. 6, No. 4, Pgs 313 – 328.
- xvii Takeshima, H., H. O. Edeh, A. O. Lawal and **M. Isiaka** (2015). Characteristics of private-sector tractor service provisions: Insights from Nigeria. *The Developing Economies*. Vol. 53, No. 3, Pgs 188 – 217.
- xviii Abubakar, M., S. Perete, **M. Isiaka** and M. K. Dalhat (2015). Modeling insulation and temperatures of a vegetable cool room. *International Journal of Engineering Research and Technology (IJERT)*. Vol. 4, No. 9, Pgs 136 – 140.
- xix Muhammad, A. I., **M. Isiaka** A. A. Fagge, M. L. Attanda, I. Lawan and N. D. Dangora. 2015. Some engineering properties of three varieties of groundnut pods and kernels. *Arid Zone Journal of Engineering, Technology and Environmentt*. Vol. 11: 61 – 75.
- xx Ahmed, J. M., **M. Isiaka** and O. L. Akangbe (2019). Design Related Physical Properties of Maize Grains (SAMMAZ 14 Variety) *Zea mays*. *International Journal of Advanced Engineering and Science* Vol. 8, No 2.
- xxi Ungawanrimi, A. Y., U. S. Muhammed, **M. Isiaka**, A. M. Sada and N. A. Sale. 2019. Development and performance evaluation of a castor seed (*Ricnus*

commnis) shelling machine with a winnowing system. FUOYE Journal of Engineering and Technology. Vol. 4, Issue 2.

- xxii. Muhammad, A. I. and M. Isiaka. 2019. Modification of Locally Developed Groundnut Sheller. Bayero Journal of Engineering and Technology. Vol. 14, No. 2: 169 – 182.

(ii) Official Peer Reviewed Conference Proceedings

- i. Yusuf, D. D., A. M. I. El-Okene, **M. Isiaka** (1996) Differential seedling emergence response of maize to tillage treatment and machinery traffic compaction of two soil types in Nigeria. Proceeding of the 18th Annual Conference of the Nigerian Society of Agricultural Engineers. Pgs 145 - 149.
- ii. Ola, F.O., A.M.I. El-Okene, M.L. Suleiman and **M. Isiaka** (2001) Development and performance evaluation of a motorized groundnut paste kneading machine. Proceeding of the International Conference of the Nigerian Institution of Agricultural Engineers. Vol. 23, Pgs 103-109.
- iii. **Isiaka, M.**, A. M. I. El-Okene and T. A. Oyedele (2006) Determination of physical properties of melon seed. Proceeding of the International Conference of the Nigerian Institution of Agricultural Engineers. Vol. 28, Pgs 322-326.
- iv. **Isiaka, M.** and Z. Abdulsalam (2006) Review of opportunities and challenges in rice processing in Nigeria. Proceeding of the International Conference of the Nigerian Institution of Agricultural Engineers. Vol. 28, Pgs 376-380.
- v. **Isiaka, M.**, D. N. Omokore, D. N. Maigida and N. Ado (2007) Technology innovation and adoption: A case study of improved rice parboiler adoption in Kafin Gana village of Jigawa State. Proceeding of the International Conference of the Nigerian Institution of Agricultural Engineers. Vol. 29, Pgs 144-149.
- vi. **Isiaka, M.**, and A. M. I. El-Okene (2010) Evaluation of size configuration for forced convection solar energy collector. Proceeding of the International Conference of the Nigerian Institution of Agricultural Engineers. Vol. 31:78 - 86.
- vii. **Isiaka, M.**, A. M. I. El-Okene, O. J. Mudiare and D. D. Yusuf (2011) Development low energy forced convection solar energy dryer for sliced tomato. Proceeding of the International Conference of the Nigerian Institution of Agricultural Engineers. Vol. 32, Pgs 601 - 608.
- viii. **Isiaka, M.** and A. M. I. El-Okene (2011) Drying characteristics of sliced tomato under forced convection solar energy dryer. Proceeding of the 2nd Biennial Engineering Conference of School of Engineering and Engineering Technology,

Federal University of Technology, Minna - Nigeria. Pgs 230 - 236.

- ix. Shittu, S. K., A. M. I. El-Okene, **M. Isiaka** and M. L. Suleiman (2012) Moisture sorption of dried tomato flakes at different temperatures. Proceedings of the International Conference of the Nigerian Institution of Agricultural Engineers. Vol. 33, Pgs 432 - 439.
- x. Femi-Owen, E. F., **M. Isiaka** and S. U. Yunusa. 2018. Design, construction and performance evaluation of manually operated juice extractor. Proceeding of National Engineering Conference of Faculty of Engineering, Ahmadu Bello University, Zaria.
- xi Ahmed, J. M., **M. Isiaka**, H. A. Saeed and S. O. Idoko. 2019. Performance evaluation of cleaning and grading machine using maize as test grains. Proceeding of 40th the Annual General Meeting and 20th International Conference of Nigerian Institution of Agricultural Engineers. Pp. 269 – 275.
- xii Unguwanrimi, Y. A., U. S. Muhammed, **M. Isiaka** and M. A. Sada. 2019. Determination of engineering properties of IAR castor seeds. Proceeding of 40th the Annual General Meeting and 20th International Conference of Nigerian Institution of Agricultural Engineers. Pp. 269 – 275.

b) Books/Monographs/Guides/Manuals/Novels/Indexes/Musical Compositions, etc: Peer Reviewed Extension Bulletins:

- i. Isiaka, M. (2005). Operation and maintenance of IAR Groundnut Shellers. IAR Samaru Extension Bulletin (Mechanization series No. 1).
- ii. Isiaka, M. (2005). Operation and Maintenance of IAR Groundnut Oil Processing Equipment. IAR Samaru Extension Bulletin (Mechanization series No. 2).
- iii. Isiaka, M. (2005). Operation and Maintenance of IAR Motorized Maize Dehusker Sheller. IAR Samaru Extension Bulletin (Mechanization series No. 3).
- iv. Isiaka, M. (2005) IAR Animal Drawn Weeding Implements. IAR Samaru Extension Bulletin (Mechanization series No. 4).
- v. Isiaka, M. (2011) IAR Solar Energy Dryers for Tomato and other Vegetables. IAR Samaru Extension Bulletin (Mechanization series No. 5).
- vi. Isiaka, M. (2011) Operation and Maintenance of Petrol and Diesel Prime Movers for Processing Equipment. IAR Samaru Extension Bulletin (Mechanization series No. 6).

c) Papers presented at Conference, Seminar/Workshop:

- i. Suleiman, M. L., D. D. Yusuf, U. S. Muhammad, **M. Isiaka** and A. M. I. El-Okene

- (1998). Problems and prospects of generating appropriate tractive operation technologies for small holder farmers. Paper presented at the Annual Conference of the Nigerian Society of Agricultural Engineers held at Airport Hotel, Lagos. September 9 – 12, 1998.
- ii. Suleiman, M. L. and **M. Isiaka** (2000) Development of animal drawn ground metered shrouded disc controlled droplet applicator. Paper presented at the 1st International Conference of the Nigerian Institution of Agricultural Engineers held at University of Ibadan, Ibadan - Oyo State.
 - iii. **Isiaka, M.** (2002). Maintenance of animal traction equipment. Paper presented at Technological Review Meeting of Sokoto State Agricultural and Rural Development Authority on May 21, 2002.
 - iv. **Isiaka, M.** (2007). Use of improved technologies for grains storage. Paper presented at Technological Review Meeting of Zamfara State Agricultural and Rural Development Authority on May 21, 2002.
 - v. **Isiaka, M.** (2007). Crops produce packaging and storage technologies. Paper presented at Post Season Training Workshop for ADP and MOA field staff, organized by Institute for Agricultural Research, December 4 – 6, 2007 at IAR Conference Room, ABU-Zaria.
 - vi. **Isiaka, M.** (2008). Post harvest food losses prevention in agricultural products. Paper presented at the National Programme for Food Security Training of Master Trainers Workshop for Farmers Field Schools Organized by FAO, November 26th 2007 – March 14, 2008 at NAERLS Conference Room, ABU-Zaria.
 - vii. **Isiaka, M.** (2008). Alternative sources of energy for domestic uses. Paper presented at Technological Review Meeting of Zamfara State Agricultural and Rural Development Authority on May 21, 2008.
 - viii. **Isiaka, M.** (2008). Tomato harvesting and preservation. Paper presented at Technological Review Meeting of Katsina State Agricultural and Rural Development Authority on 23rd October, 2008.
 - ix. **Isiaka, M.** (2009). Drying of fruits and vegetables. Paper presented at Training of Graduates in Agricultural Enterprise Generating Vocations and Extension on Agro-Food Processing, Organized by Institute for Agricultural Research (IAR), Samaru and National Food Reserve Agency (NFRA), Abuja. July 27 – September 3, 2009 at IAR Conference Hall, ABU-Zaria. Pgs 77 - 79.
 - x. **Isiaka, M.** (2009). Groundnut oil extraction using IAR processing equipment. Paper presented at Training of Graduates in Agricultural Enterprise Generating Vocations and Extension on Agro-Food Processing, Organized by Institute for Agricultural Research (IAR), Samaru and National Food Reserve Agency (NFRA), Abuja. July 27 – September 3, 2009 at IAR Conference Hall, ABU-Zaria. Pgs 80 - 82.

- xi. **Isiaka, M.** (2012). Operation and maintenance of water pump. Paper presented at Technological Review Meeting of Zamfara State Agricultural and Rural Development Authority on May 3, 2012.
- xii. Takeshma, H., H. Edeh, A. Lawal and **M. Isiaka** (2014). Characteristics of tractor-owner operators in Kaduna and Nasarawa States: Implications to agricultural mechanization policies in Nigeria. Paper presented at Brown Bag Seminar organized by IFPRI at NAERLS/ABU Conference Hall on March 24, 2014.

Invention/Innovations/Awards:

Federal Government Scholarship for best ten students in FGC, Kano. 1978 – 1983

NAMES AND ADDRESSES OF 3 REFEREES:

1. Prof. A. M. I. El-Okene Agric. Engineering Dept. A.B.U. Zaria
2. Prof. M. L. Suleiman Agric. Engineering Dept. A.B.U. Zaria
3. Prof. S. Z. Abubakar DVC (Admin.) A.B.U. Zaria.