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Department: Food Science and Technology
Academic Rank: Reader
Current position:
Research interest:



Detailed Resume

ACADEMIC DEGREES WITH DATE

- Ph.D. 2006
- M.Sc. 1988
- B.Sc. 1979

INSTITUTIONS ATTENDED WITH DATE

- Ladoke Akintola University of Technology, Ogbomosho 2002-2006
- University of Ife (Obafemi Awolowo University) Ile-Ife 1985-1988
- University of Ife (Obafemi Awolowo University) Ile-Ife 1975-1979

MEMBERSHIP OF PROFESSIONAL BODIES

- Member, Nigerian Institute of Food Science and Technology (MNIFST)

PRIZES, HONOURS, NATIONAL AND INTERNATIONAL RECOGNITION

- Federal Government Scholarship (B.Sc) (1975 – 1979)
- British Council Fellowship (Laboratory Techniques in Food Science and Technology/Industrial attachment) (Jan-June, 1989)
- Best Lecturer Merit Award (Presented by the Nigerian Association of Food Science and Technology Students, University of Agriculture, Abeokuta Chapter) (2006)

COURSES TAUGHT

- FST 201 Introduction to Food Science and Technology
- FST 309 Basic Food Chemistry
- FST 314 Principles of Food Analysis
- FST 316 Chemical and Instrumental Analysis
- FST 509 Food Packaging

Postgraduate Courses

CODE TITLE

- FST 703 Advanced Food Technology
- FST 704 Special Topics in Cereal Technology
- FST 710 Selected Topics in Food Chemistry & Biochemistry
- FST 717 Special Topics in Sensory Analysis
- FST 720 Food Packaging and Transportation
- FST 721 Topics in raw material sourcing

RESEARCH CONDUCTED

PUBLICATIONS

Dissertation/Thesis

(i) **M.A. Idowu** (2005). An Investigation into some factors affecting Quality and Storage Characteristics of “orunla” {okra (*Abelmoschus esculentus*)} powder.

Ph.D Thesis, Ladoke Akintola University of Technology (LAUTECH) Ogbomoso.

(ii) **M.A. Idowu** (1998). The Use of Pre-gelatinized Maize flour in Baking,

M.Sc. Thesis. Department of Food Science and Technology, Obafemi Awolowo University, Ile-Ife.

(iii) **M.A. Idowu** (1979). Yeast (*Saccharomyces Cerevisiae*) Production from

Cane Molasses. B.Sc. Thesis, University of Ife (Obafemi Awolowo University) Ile-Ife.

Books/Monographs and Chapters in Books

(iv) S.V.A. Uzochukwu, C.F.I. Onwuka and **M.A. Idowu** (Eds.): “Food Security and Survival of Food and Agro-allied Industries in the next Millenium”. Proceedings of 22nd Annual Conference of the Nigerian Institute of Food Science and Technology, 23rd – 26th November, 1998.

University of Agriculture, Abeokuta. Vol. 1: Technical Papers.

Articles in Learned Journals:

(v) I.A. Adeyemi and **M.A. Idowu** (1990). Evaluation of pre-gelatinized Maize

- flour in the development of 'Maissa' – a baked product. *Nigerian Food Journal* 8:63 – 73
- (vi) **M.A. Idowu**, I.A. Adeyemi and M. David (1993). Sensory Evaluation and Nutrient Composition of weaning food from pre-gelatinized Maize-sweet potato mixtures. *Plant Foods for Human Nutrition* 44: 149 – 155.
- (vii) **M.A. Idowu** and S.A. Akindele (1994). Effect of Storage of Cassava roots on the Chemical Composition and Sensory Qualities of gari and fufu. *Food Chemistry* 51: 421 – 424.
- (viii) **M.A. Idowu**, A. Oni and B.M. Amusa (1996). Bread and Biscuit making potentials of some Nigerian Cocoyam Cultivars. *Nigerian Food Journal* 14: 1 – 12.
- (ix) L.O. Sanni, **M.A. Idowu** and B. Taiwo (1999). Production and Storage of Foam-mat dried Tomato Powder. *West African Journal of Food and Nutrition* 2 (1): 54 – 59.
- (x) **M.A. Idowu**, O.O. Atanda, M.O. Bankole, S.V.A. Uzochukwu and O.O. Olaewe (2002). An Assessment of the Status and Product Quality of Some Bread-making Industries in Abeokuta. *Asset Series B* 1 (1): 61 – 6.
- (xi) T.A. Shittu, S.O. Awonorin, L.O. Sanni and **M.A. Idowu** (2002). Dry Milling Characteristics of Dried Cassava Chips as Related to Moisture Content. *Journal of Applied Science and Technology* 2 (1): 13 – 18.
- (xii) Babajide, J.M., Atanda, O.O., **Idowu, M.A.** and Lasekan, O.O. (2003). Microbial and Sensory Quality of Freshly Processed and reconstituted "Kunnunzaki" – A Nigerian millet based beverage. *Asset Series A* 3(2): 115– 121.
- (xiii) Babajide, J.M., **Idowu, M.A.** and Lasekan, O.O. (2003). Effect of soy and wheat variation on the functional and sensory properties of cassava – soy –wheat noodles. *Nigerian Food Journal* 21: 23 – 25.
- (xiv) **M.A. Idowu**, A.B. Idowu and M.F. Faseki (2004). Nutrient Composition and Processing of the Variegated Grasshopper *Zonoceros variegatus* (L) (*Orthoptera: Pterygota*) for Human Consumption. *Nigerian Journal of Entomology* 21: 65 – 70.
- (xv) Fetuga, G.O., **Idowu, M.A.**, Sanni, L.O. and Bamiro, F.O. (2008). Effect of enzyme clarification on chemical, physical and sensory properties of Mango (*Mangifera indica*) Juice. *Nigerian Food Journal* 26(1): 42 – 53.

(xvi) Sobukola, O.P., Awonorin, S.O., Idowu, M.A. and Bamiro, F.O. (2008). Chemical and Physical hazard profile of 'Robo' Processing – a street-vended melon snack. *International Journal of Food Science and Technology* 43: 237- 242.

(xvii) Kusimo, O.O., Henshaw, F.O., Olayiwola, I.O. and **Idowu, M.A.** (2008). Chemical Composition of rice-cowpea flour blends and sensory attributes of steamed product. *Nigerian Journal of Nutritional Sciences* 29(2): 51-65.

Papers accepted for publication

(xviii) Oladimeji, O. and **Idowu, M.A.** (2007). Effect of air pollution on concentrations of lead, cadmium and chromium in roadside foods in some major towns of South western Nigeria. *Asset Series A* (In press).

(xix) Shittu, T.A., **Idowu, M.A.** and Ademosun, O.O. Production of dried starchalbumen powder: effect of temperature and starch on some functional properties. *Journal of food processing and preservation* (Accepted August, 2007).

Paper peripheral to the area of discipline

(xx) **Idowu, M.A.** and Adetoro, R.A. (1999). Achieving National stability in Nigeria through self-sufficiency in Food Production. *Arts and Social Sciences forum Journal* 1 (1): 71 – 78.

Papers in Referred Conference Proceedings

(xxi) **M.A. Idowu** and F.B. Kue (1998). Effect of Post-harvest Handling Conditions on the Quality of *Clarias Gariepinus* - a fresh water fish. In: Food Security and the survival of Food and Agro-allied Industries in the next Millennium” S.V.A. Uzochukwu, C.F.I. Onwuka and **M.A. Idowu** (Eds.). Proceedings of the 22nd Annual Conference of the Nigerian Institute of Food Science and Technology. Vol. 1: Technical papers pp. 97 – 99.

(xxii) **M.A. Idowu**, O.O. Lasekan and M.O. Kassim (1998). Process Technology, Characteristics and Storage Stability of Sweet Potato Jam. In: “Food Security and the survival of Food and Agro-allied Industries in the next Millennium”. S.V.A. Uzochukwu, C.F.I. Onwuka and **M.A. Idowu** (Eds.) Proceedings of the 22nd Annual Conference of the Nigerian Institute of Food Science and Technology. Vol. 1: Technical Papers pp. 143 – 145.

(xxiii) **M.A. Idowu**, L.O. Sanni and O.B. Farore (2001). Development and Storage Stability of some Traditional Snack Foods from Sweet potato. In: “Root Crops: The Small Processor and Development of Local Food Industries for Market Economy. “M.O. Akoroda (Ed) Proceedings of the 8th Triennial Symposium of the International Society for Tropical Root Crops – African

Branch (ISTRC-AB), IITA Ibadan. Pp 205 – 207.

(xxiv) **M.A. Idowu**, L.O. Sanni and O.A. Osunbitan (2001). Effect of Processing Methods and Storage Conditions on the Qualities of Fried Sweet-potato Chips. In: “Food Crops: The Small processor and Development of Local Food Industries for Market Economy”. M.O. Akoroda (Ed). Proceedings of the 8th Triennial Symposium of the International Society for Tropical Root Crops – African Branch (ISTRC-AB). IITA Ibadan. Pp 222 – 224.

(xxv) Babajide, J.M., **Idowu, M.A.** and Adesuko, M.A. (2002). Proximate and Sensory properties of instant cassava-wheat noodles. In: “Biotechnology in food processing.” C.N. Ubaonu, O.S. Eke and A. Uzomah (Eds.). Proceedings of the 26th Annual Conference of the Nigerian Institute of Food Science and Technology Pp 136 – 138.

(xxvi) Ogundele, K., **Idowu, M.A.**, Awonorin, S.O., Atanda, O.O. and Akpan, I. (2006). Effect of processing method on stability of Sheabutter (*Vitellaria paradoxa*) during storage. In: Reforms in the Food Industry for meeting future challenges in Africa”. O.A.T. Ebuhi (Ed.) Proceedings of the 30th Annual Conference of the Nigerian Institute of Food Science and Technology Pp 94 – 95.

(xxvii) Ogundele, K., **Idowu, M.A.**, Awonorin, S.O., Atanda, O.O. and Akpan, I. (2006). Effect of processing method on the yield of Sheabutter (*Vitellaria paradoxa*). In: “Reforms in the Food Industry for meeting future challenges in Africa”. O.A.T. Ebuhi (Ed.) Proceedings of the 30th Annual Conference of the Nigerian Institute of Food Science and Technology Pp 96– 97

Papers under review

(i) **M.A. Idowu**, I.A. Adeyemi and A.A. Babajide. Effect of packaging Material and storage condition on quality of “Orunla” {Okra (*Abelmoschus esculentus*)} powder (International Journal of Food properties).

(ii) **M.A. Idowu**, I.A, Adeyemi and E.C. Ejimofor. Effect of storage of okra fruits (*Abelmoschus esculentus*) on the nutrient composition and quality of “orunla” powder (ASSET)

(iii) **M.A. Idowu**, and O.O. Odubanjo. Iron contamination of some dry milled foods in Abeokuta and Odeda Local Government areas of Ogun State, Nigeria (ASSET).

(iv) Quality evaluation of some Commercial Baker’s yeast in Nigeria (Nigerian Food Journal).

(h) Research completed but not yet published

(i) Process technology and storage stability of “aadun” – a maize based Nigerian Snack.

- (ii) Effect of different packaging materials on “pupuru” flour.
- (iii) Development and sensory evaluation of “Ampla” – A breakfast meal from a mixture of roasted maize and soyabean.
- (iv) Chemical and Phytochemical composition of some uncommon vegetables in Nigeria.

CONFERENCES, WORKSHOPS, TRAININGS AND EXHIBITIONS ATTENDED

- (i) In-House Staff Development Workshop on Curriculum Studies based on Behavioural objectives. Organized by the Federal Polytechnic, Ilaro (11th – 15th Oct. 1982)
- (ii) Educational Technology Course. Organized by the National Board for Technical Education (NBTE) and held at University of Ilorin, Ilorin (12th Aug. – 4th Oct. 1985).
- (iii) First Workshop on Polytechnic Management, Sponsored by the British Council/NBTE under the Four Polytechnic Project and held at Kaduna Polytechnic, Kaduna (26th – 30th September, 1988).
- (iv) Laboratory Techniques and Industrial attachment. Sponsored by the British Council under the Four Polytechnic Project and held at the Department of Science, Bristol Polytechnic, Bristol and Campden Food Research Association, Chipping Campden, Great Britain (30th January – 28th July, 1989).
- (v) Second Workshop on Polytechnic management, sponsored by the British Council/NBTE under the Four Polytechnic project and held at Institute of Management Technology (IMT), Enugu (25th – Sept. – 7th October, 1989).
- (vi) In-House Workshop on Update of Techniques in Science and Technology for Staff of School of Applied Science, Federal Polytechnic, Ilaro. (26th – 28th March, 1990).
- (vii) Twenty second Annual Conference/General meeting of the Nigerian Institute of Food Science and Technology held at University of Agriculture, Abeokuta, Nigeria (23rd – 26th November, 1998).
- (viii) First Annual Workshop on Research Methodology Organized by the Nigerian Institute of Food Science and Technology and held at University of Agriculture, Abeokuta, Nigeria (24th – 28th July, 2000).
- (ix) 30th Annual Conference/General meeting of the Nigerian Institute of Food Science and Technology, held at Sheraton Hotel & Towers, Ikeja and ASCON Conference Centre, Badagry, Lagos (23rd – 27th October, 2006).

(x) Workshop on Student's Intellectual Property Protection Initiative. Organized by a Non-Governmental organization and sponsored by the National Universities Commission, Abuja (18th – 19th September, 2007).

(xi) 32nd Annual Conference/General meeting of the Nigerian Institute of Food Science and Technology, held at Ladoke Akintola University of Technology, Ogbomoso (13th – 17th October, 2008).

(xii) Second Management Training (MADEV) workshop organized by the Association of African Universities (AAU), held at Mzumbe University, Morogoro, Tanzania (1st – 14th March, 2009).