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Department:	Food Science & Technology	
Academic Rank:	Professor	
Current position:		
Research interest:		

ACADEMIC DEGREES WITH DATE

- Ph.D. 1982
- M.Sc. 1979
- H.N.D 1977

INSTITUTIONS ATTENDED WITH DATE

- The University of Leeds, Leeds, U. K. 1978 1982
- Luton College of Higher Education, Luton, U. K. 1977 1978
- Grimsby College of Technology, Grimsby, U.K. 1974 1977

MEMBERSHIP OF PROFESSIONAL BODIES

- Council of Registered Engineers of Nigeria (COREN) Registration No. COREN 4758 in Mechanical Engineering Practice (1992).
- M. Inst. R Member of the Institute of Refrigeration, Britain (1971).
- CM.RSES Certificate Member of the Refrigeration Service Engineers Society, U.S.A. (1974).
- AM.ASHRAE Associate Member of the American Society of Heating,
- Refrigerating and Air-Conditioning Engineers, U.S.A. (1974).
- Grad. M.I.Mech.E Graduate Member of the Institute of Mechanical Engineers, Britain (1979).
- F.NIFST Member of the Nigerian Institute of Food Science and Technology (1984).

PRIZES, HONOURS, NATIONAL AND INTERNATIONAL RECOGNITION

- Western State Government of Nigeria Scholarship (1969 to 1971) Refrigeration and Air-Conditioning at the Government Technical College, Oshogbo – Ref. No. GTC/RAC/68/3/14.
- Western State Government of Nigeria Undergraduate Overseas Scholarship (1974 to 1977) – H. N. D. Mechanical Engineering (Refrigeration and Air-Conditioning Technology) at Grimsby College of Technology, U.K. – Ref. No. SCH. 11/73/24.

 The British Council, London – Ph.D in Food Process Engineering at the University of Leeds, U.K. (1979 to 1982) – Ref. No. GEN/3500/5A/NIG/309/79/80 of October 16, 1979.

COURSES TAUGHT

RESEARCH CONDUCTED

- Design and construction of a multi-purpose fruit juice extractor. Department of
- Food Science and Technology, University of Agriculture, Abeokuta sponsored 2003 – 2004.
- Design, Construction and evaluation of a Centrifugal liquid-solid separator.
- Department of Food Science and Technology, University of Agriculture, Makurdi, Benue State, sponsored, 1998 – 1999.

PUBLICATIONS

Referred Conference Proceedings

Seminars

i) Awonorin, S. O. (1987). Equipment and Machinery in the Processing of Food Waste. In:
Proceedings of the 2nd Annual Symposium on Food Waste Utilization – Economic and
Environmental Benefits. Nigerian Institute of Food Science and Technology (Western Chapter),
May 2, 1987, College of Science and Technology, University of Lagos, Abeokuta Campus, Ogun
State, pp. 38 – 46 (Edited).

 ii) Awonorin, S. O. (1994). Influence of Packaging Film Thickness on the Rates of Heat Transfer to Broiler Chickens during Freezing with Liquid Nitrogen Sprays. A paper presented at the Annual Conference of the Nigerian Institute of Food Science and Technology held at the Rivers State University of Science and Technology, Port-Harcourt, November 28th to December 2nd, 1994.

iii) Awonorin, S. O. (1995). An appraisal of the Freezing Capabilities of Tunnel and Spiral BeltFreezers Using Liquid Nitrogen Sprays. A paper

presented at the Annual Conference of the Nigerian Institute of Food

Science and Technology, Hamdala Hotel, Kaduna on 30th October to November 2nd 1995.
iv) Awonorin, S. O., Abu, J. O. and Agbali, F. (1997). Energy Transport Mechanisms In Free Convection During Reconstitution of Gari. A paper presented at the Annual Conference of the Nigerian Institute of Food Science and Technology, University of Uyo, November 1997.
v) Awonorin, S. O. (1999). Hot Air Drying Kinetics Ewedu (Corchorus olitorus) Leaves. A paper presented at the Annual Conference of the Nigerian Institute of Food Science and Technology, Raw Materials Research and Development Council, Abuja, 25th – 27th October, 1999.

Journal Articles

(i) Awonorin, S. O. and Lamb, J. (1988). Heat Transfer Coefficient for Nitrogen Droplets Film-Boiling on a Food Surface. International Journal of Food Science and Technology, 23(4): 391 – 401.

(ii) Awonorin, S. O. (1989). Evaporation rates of Freely Falling Liquid Nitrogen Droplets in
 Air. Heat Transfer Engineering, 10(1): 26 – 36.

(iii) **Awonorin, S. O.** (1989). Film Boiling – Characteristics of Liquid Nitrogen Sprays on a Heated Plate. International Journal of Heat and Mass Transfer, 32(10): 1853 – 1864.

(iv) Awonorin, S. O. (1989). A Model for Heat Transfer in Cryogenic Food Freezing.International Journal of Food Science and Technology, 24(3): 243-359.

(v) **Awonorin, S. O.** (1989). Determination of the Performance of a Cryogenic Freezer. American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE) Transactions, 95(1): 125-130.

(vi) **Awonorin, S. O.** and Lamb, J. (1990). The Leidenfrost Phenomenon: Experimental Investigation of the Vaporization of Nitrogen Droplets on a Food Surface. Journal of Food Science, 55(3): 808-816.

(vii) Awonorin, S. O. and Rotimi, D. K. (1991). Effects of Oven Temperature and Time on the Losses of Some B-Vitamins in Roasted Beef and Pork. Journal of Food Service Systems, 6(2): 89-105.

(viii) **Awonorin, S. O.**, Ekpe, E. and Oyewole, L. O. (1991). Production of Livestock Feed from Livestock Wastes. Journal of Agriculture, Science and Technology, 1(2): 104 – 108.

(ix) **Awonorin, S. O.** and Ayoade, J. A. (1992). Texture and Eating Quality of Raw – and Thawed – Roasted Turkey and Chicken Breasts as Influenced by Age of Birds and Period of Frozen Storage. Journal of Food Service Systems, 6(4): 241-255.

(x) **Awonorin, S. O.** and Rotimi, D. K. (1992). Influence of Endpoint Temperature, Humidity and Cold Storage on Mechanical and Sensory Properties of Smoked Chicken Sausage. Journal of Food Service Systems, 7(1): 43-53.

(xi) Awonorin, S. O. (1993). Analysis on the Heat Transfer Coefficient for Liquid Nitrogen Droplets in Cryogenic Freezing of Foods. International Journal of Refrigeration, 16(2): 143-151.
(xii) Awonorin, S. O. (1993). Quality of Smoked Chicken – Guinea Fowl Sausage as Affected by Processing Conditions and Cold Storage. Food Science and Technology, 26(4): 285-290.
(xiii) Awonorin, S. O. and Bamiro, F. O. (1993). Sun – and Hot Air-Drying of Soybean: A comparative Study of Selected Quality Parameters and Storage of the Oil Obtained by Solvent Extraction. Nigerian Food Journal, 11: 84-97.

(xiv) **Awonorin, S. O.** (1993). Rheological and Mechanical Properties, BVitamin Retention and Sensory Characteristics of Smoked Sausage

Made from Mixtures of Broiler Chicken and Guinea Fowl. Food Science and Technology, 26(4): 291-300.

(xv) **Awonorin, S. O.** and Ayoade, J. A. (1993). Thermal Destruction of Thiamin in Different Types of Pre-Packaged Minced Meats. International Journal of Food Science and Technology, 28(6): 597-602.

(xvi) **Awonorin, S. O.** (1994). Rheological and Emulsification Properties of Chicken Sausage as Influenced by Age of Birds. Nigerian Food Journal, 12: 55-65.

(xvii) Awonorin, S. O., Ayoade, J. A., Carew, S. N., Ingbian, E. K. and Girgih, A. T. (1994).
Quality of Meat from Rabbits Fed Various Levels of *Gliricidia sepium*. Nigerian Journal of Animal Production, 21: 170-180.

(xviii) **Awonorin, S. O.,** Bamiro, F. O. and Ayoade, J. A. (1995). The Effect of Freezing Rate, Storage and Cooking on Some B-Vitamins in Beef and Pork Roasts. Journal of Food Service Systems, 9(1): 7-23.

(xix) **Awonorin, S. O.,** Ayoade, J. A. and Oyewole, L. O. (1995). Relationship of Rendering Process Variables to Selected Quality Parameters of Poultry Byproduct Meal. Food Science and Technology, 28(1): 129-134. (xx) **Awonorin, S. O.** and Ayoade, J. A. (1995). Preslaughter Heat Stress and Starvation Time on Quality of Broiler Chicken Breast Roasts. Delta Agriculturist, 2: 187-200.

(xxi) **Awonorin, S. O.** (1996). An Appraisal of the Freezing Capabilities of Tunnel and Spiral Belt Freezes Using Liquid Nitrogen Sprays. Journal of Food Engineering, 34(2): 179-192.

(xxii) **Awonorin, S. O.,** Ayoade, J. A. and Abe, A. A. (1999). Effect of Preslaughter Exercise of Broiler Chickens on Carcass Quality. Nigerian Veterinary Journal, 20(2): 51-64.

(xxiii) Shittu, T. A., **Awonorin, S. O.,** Sanni, L. O. and Idowu, M. A. (2002). Dry Milling Characteristics of Dried Cassava chips as Related to Moisture Content. Journal of Applied Science and Technology 2(1): 13-18.

(xxiv) Solanke, O. E and **Awonorin, S. O.** (2002). Kinetics of Vitamin C Degradation in Some Tropical Green Leafy Vegetable during Blanching. Nigerian Food Journal, 20: 24-32. Erratum in 21:76-78 (2003).

(xxv) Henshaw, F. O., **Awonorin, S. O.,** and Odunowo, F. M. (2004). Functional Properties of Frozen Cowpea Paste: Effect of Freezing Rate and Frozen Storage. ASSET JOURNAL SERIES A. Accepted.

(xxvi) Adebowale, A. A., Sanni, L. O., **Awonorin, S. O.** (2005). Effect of texture modifiers on the physico-chemical and sensory properties of dried fufu. Food Science and Technology 11(5): 373-382.

(xxvii) Ukatu, A. C. and **Awonorin, S. O**. (2005). A fertilizer drill for small – scale farmers of the developing nations. ASSET Journal, Series B, 4 (1): 1-14.

(xxviii)Sobowale, S. S., Sobukola, O. P., Shittu, T. A., **Awonorin, S. O**., Sanni, L. O., Awokola, O. S., and Aina, O. M. (2005). Analysis of heat transfer during reconstitution of gari granules into a paste. ASSET Journal, Series B, 4(1): 15 – 26.

(xxix) Sobukola, O. P., **Awonorin, S. O**., Sanni, L. O. and Bamiro, F. O. (2008). Optimization of blanching conditions prior to deep fat frying of yam slices. International Journal of Food Properties, 11: 379 – 391.

(xxx) Sobukola, O. P., **Awonorin, S. O.**, Sanni, L. O., and Bamiro, F. O. (2008). Deep – fat frying of yam slices: optimization of processing conditions using response surface methodology. Journal of Food Processing and Preservation, 32: 343 – 360.

(d) Articles Submitted for Publication

(i) **Awonorin, S. O.,** Tiamiyu, L. O. and Alergheny, N. (1997). Physico-Chemical Changes in Tilapia Immersed in different Brine Concentrations. Journal of Sustainable Agriculture and the Environment. (Submitted).

(ii) Awonorin, S. O., Inyang, U. E. Alergheny, N., Kalu, B. A., Atsor, C. T. and Umo, E. J.(1997). Swelling Behaviour of Gari during Reconstitution: Part I, Influence of Some ProcessingParameters. Nigerian Food Journal. (Submitted).

(iii) Awonorin, S. O., Inyang, U. E., Alergheny, N., Kalu, B. A., Atsor, C. T. and Umo, E. J. (1997). Swelling Behaviour of Gari during Reconstitution: Part II, Influence of Fermentation Period, Starch and Fibre Levels. Nigerian Food Journal. (Submitted).

(iv) Awonorin, S. O., Abu, J. O. and Agbali, F. (1998). Energy Transport Mechanisms during

Reconstitution of Gari. Journal of Agriculture, Science and Technology. (Submitted).

(e) Thesis

(i) Design of a 200 Tonnes Cold Storage Plant to be Located in Madrid,

Spain. Higher National Diploma Dissertation. Grimsby College of

Technology, Nuns Corner, Grimsby, South Humberside, U.K., 1977.

(ii) Economic Analysis of an Unmanned Commercial Refrigeration Plant.

Associateship Diploma Dissertation. Luton College of Higher

Education, Luton, Bedfordshire, U.K., 1978.

(iii) Energy Conservation in the Food Industries. M.Sc. Dissertation.

University of Leeds, U.K., 1979.

(iv) Heat Transfer to Liquid Nitrogen Droplets during Cryogenic

Refrigeration of Foods. Ph.D Thesis. University of Leeds, U.K., 1982.