

BALLEGU, Wenceslaus Rumanyika William



SOKOINE UNIVERSITY OF AGRICULTURE
FACULTY OF AGRICULTURE
DEPARTMENT OF FOOD SCIENCE AND TECHNOLOGY

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1 PERSONAL PARTICULARS

Full Name: **BALLEGU** Wenceslaus Rumanyika William
Nationality: Tanzanian
Date of Birth: 13th December 1958
Place of Birth: Ibwera, Bukoba **TANZANIA**
Marital Status: Married, with 3 children

2 ACADEMIC RECORD, PROFESSIONAL TRAINING AND RESPONSIBILITIES

2.1 Academic Qualifications

Qualification	Institution	Country	Year
1. PhD (Engineering)	Kansas State University	USA	2001
2. MSc (Food Process Engineering)	University of Reading	UK	1988
3. BSc (Process Engineering)	University of Dar es Salaam	TANZANIA	1986
4. Secondary Education (A – Level)	Moshi Secondary School	TANZANIA	1981
5. Secondary Education (O – Level)	Nyakato Secondary School	TANZANIA	1978
6. Primary Education	Seke Primary School	TANZANIA	1974

2.2 Professional Training

- 2.2.1 Certificate in Applied Food Analysis
Jomo Kenyatta University of Agriculture and Technology (JKUAT), KENYA (February – March, 1995)
- 2.2.2 Certificate of Attendance
Web 2.0 Tools for Research Support and Networking in Africa (RUFORUM/CTA/COL)
Mukono, Kampala UGANDA (8 – 12 September, 2008)

2.3 Responsibilities

2.3.1 Responsibilities at National Level

- 2.3.1.1 Chairman Technical Committee on Food Packaging and Labelling
Tanzania Bureau of Standards (TBS) (Sept. 1990 – July 1996)
- 2.3.1.2 Member Food Technical Committee
Tanzania Food and Drugs Authority (TFDA) (October 2005 – to date)
- 2.3.1.3 Member Editorial Board (Tanzania Food and Nutrition Journal – TFNJ) (July 2006 – to date)

2.3.2 Responsibilities at SUA

- 2.3.2.1 Deputy Director Computer Centre (July 2006 – to date)
- 2.3.2.2 Member University Senate, SUA (July 2007 – to date)
- 2.3.2.3 Member Senate Research and Publication Committee, SUA (July 2006 – to date)

- 2.3.2.4 Member Board of Solomon Mahlangu Campus (SMC – SUA) (July 2006 – to date)
- 2.3.2.5 Member Technical Committee for the Matriculation Examinations (July 2002 – to date)
- 2.3.2.6 Member Students Academic Registry Information System (SARIS Team)
(for B.Sc. [Food Science and Technology] degree Programme)
(July 2002 – June 2007; Dec 2007 – to date)
- 2.3.2.7 Member Room Allocation Committee of SUASAB (July 2006 – to date)
(SUASAB = Sokoine Univ. of Agric. Students Accommodation Bureau)

2.3.3 Membership in Professional Associations

- 2.3.3.1 Professional Member Tanzania Society of Agricultural Engineers (TSAE); July 1993 – to date.
- 2.3.3.2 Student Member American Society of Agricultural Engineers (ASAE); May 1998 – June 2001.

3 EMPLOYMENT RECORD

3.1 Job Positions held at SUA

- 3.1.1 Senior Lecturer July 2006 – to date
- 3.1.2 Lecturer: July 1993 – June 2006
- 3.1.3 Assistant Lecturer: July 1989 – June 1993
- 3.1.4 Tutorial Assistant: April 1986 – June 1989
- 3.1.5 First Appointment: April 1986

3.2 Work Experience

3.2.1 Teaching Experience

3.2.1.1 Teaching at SUA

Since 1989 to date, I have taught various courses offered to undergraduate students at SUA in the B.Sc. (Food Science and Technology), B.Sc. (Environmental Sciences and Management) and B.Sc. (Wildlife Management) degree programmes. The courses include;

A: Term System(1989 – 2004)

- Mathematics – 1st Year, B.Sc. (FST): 1989 – 1995.
- Principles of Food Engineering-I – 1st Year, B.Sc. (FST): 1989 – 1991
- Plant and Equipment Layout and Maintenance – 3rd Year, B.Sc. (FST): 1995 – 96, 2002 - 2003
- Technology and the Environment – 2nd Year, B.Sc. (ESM): 2002 – 2003
- Energy and the Environment – 3rd Year, B.Sc. (ESM): 2003
- Technology of Specific Products – 4th Year, B.Sc. (FST): 1992 – 1994.
- Materials Science for Food Technologists – 4th Year, B.Sc. (FST): 1989 – 1996, 2002 – 2004
- Pilot Plant Processes – 4th Year, B.Sc. (FST): 1989 – 96, 2002 – 2004

B: Semester System (2001 – to date)

Basic Engineering Drawing and Communication – 1st Semester, B.Sc. (FST): 2001 – to date

- Principles of Food Engineering-I – 2nd Semester, B.Sc. (FST): 2001 – to date
- Materials Science for Food Technologists – 2nd Semester, B.Sc. (FST): 2001 – to date
- Principles of Food Engineering-II – 3rd Semester, B.Sc. (FST): 2006 - 2007
- Technology and the Environment – 4th Semester, B.Sc. (ESM): 2003 – to date
- Technology and the Environment – 4th Semester, B.Sc. (WLM): 2003 – to date
- Pilot Plant Processes – 6th Semester, B.Sc. (FST): 2004 – to date
- Plant and Equipment Layout and Maintenance – 6th Semester, B.Sc. (FST): 2004 – to date
- Energy and the Environment – 6th Semester, B.Sc. (ESM): 2003 – 2006
- Mathematics for Home Economics – 1st Year B.Sc. (HE/HN): 2008 to date

- 3.2.1.2 Part-time teaching at Makerere University, UGANDA
Department of Food Science and Technology (9 weeks: May – July, 1991).
- 3.2.1.3 Part-time teaching at Kigali Institute of Science, Technology and Management (KIST), RWANDA.
Department of Food Science and Technology (9 weeks: July – September, 2003).
- 3.2.1.4 Distance Teaching and Learning, The Open University of Tanzania (OUT), TANZANIA
Course: Physics for Home Economics (OHE 105) (2002 – to date)

3.2.2 Research Experience

- 3.2.2.1 I participated fully, as a Graduate Research Assistant (GRA) (1998 – 2001), in a project titled: *Modification of Wheat Gluten*. This was a five-year multi-disciplinary project, involving several departments at Kansas State University, aimed at producing value-added products from Kansas wheat. The project was funded by (i) The US Department of Agriculture, (ii) Kansas Wheat Growers' Association, and (iii) Kansas State University.
- 3.2.2.2 I participated fully, as a researcher, in a research project titled: *Development and promotion of improved processing, packaging and storage of sweet potato and cassava for diversification of use and commercialisation of the value added products under smallholder farmer conditions*. This was a three-year, nine-researcher project funded by the "Tanzania Agricultural Research Programme – Phase 2" (TARP II – SUA Project: funded by NORAD and the Government of Tanzania; 2001 – 2004).
- 3.2.2.3 I participated fully, as a researcher, in a research project titled: *Promotion of soybean production, processing and utilization for poverty alleviation and improvement of health in Morogoro*. This was a four-year, eight-researcher project funded by the "Future Opportunities and Challenges in Agricultural Learning" (FOCAL/PANTIL Project: funded by NORAD; 2002 – 2006 + 2007).
- 3.2.2.4 I participated fully, as a researcher and Assistant Project Leader, in a research project titled: *Improved utilization of sorghum and pearl millet in East Africa*. This was a one-year, eight-researcher, multinational project (Tanzania and USA) funded by INTSORMIL (a USA based international organisation supported by the US Department of Agriculture; July 2006 – June 2007).
- 3.2.2.5 I am currently engaged, as a researcher, in a research project titled: *Improvement of cassava production, processing, utilization and marketing for economic growth and improved livelihood in the eastern zone of Tanzania*. This is a four-year, eight-researcher project funded by the "Programme for Agricultural and Natural Resources Transformation for Improved Livelihood" (PANTIL Project funded by NORAD; 2006 – 2009).
- 3.2.2.6 I am currently engaged, as a researcher and Assistant Project Leader, in a research project titled: *"Diversification of processing and utilization of cassava products through development of fortified soy/cowpea based products for enhancement of nutrition and safety qualities"*. This is a two-year, fourteen-researcher, bi-national project (Tanzania and Mozambique) funded by the French government through SADC-FIRCOP Programme (December 2006 – September 2009).
- 3.2.2.7 I am currently engaged, as a researcher and Assistant Project Leader, in a research project titled: *"A strategy to promote increased use of sorghum and millet in East Africa"*. This is a four-year, nine-researcher, multinational project (USA, Tanzania and Zambia) funded by INTSORMIL (a USA based international organisation supported by the US Department of Agriculture; July 2007 – September 2011).

3.2.3 Coordination and Supervision of Industrial Field Practical Training

Since 1989 to date, I have coordinated and supervised Industrial Field Practical Training for B.Sc.(FST) students at SUA. I have consequently visited several food processing industries including; fruit processing (e.g. DABAGA), milk processing (e.g. Royal Dairies), soft drinks processing (e.g. Coca Cola Kwanza), Fish processing (e.g. TANPERCH), cereal processing (e.g. National Milling Cooperation), brewing (e.g. TBL Dar), and meat processing (e.g. Makela Meat Products).

3.2.4 Supervision of Final Year Special Projects

Since 1989 to date, I have supervised and/or co-supervised over 100 Final Year Special Projects. My research areas of interest have primarily been; design, fabrication and testing performance of various village- and household-level machines; establishment of optimum processes for home-made food products; formulation, preparation and testing acceptability of nutritionally improved foods; and surveys on the adequacy of food packaging in the local markets.

3.2.5 Supervision of Postgraduate Students

- 3.2.5.1 Fratela L. Mapunda (M.A. – Rural Development), 2007
Research Topic: *The role of traditional maize storage techniques on food security*
- 3.2.5.3 Mtey G. Manyara (currently pursuing M.Sc. Food Science)
Research Topic: *Investigation on Wet and Dry Dehulling of Soybeans*

3.2.6 Consultancy Experience

- 3.2.6.1 In June 2002, through the **Bureau for Agricultural Consultancy and Advisory Services (BACAS)**, I was engaged by the **Austro-Project Association (APA)** to carryout a consultancy titled: "*Environmental Impact Assessment (EIA) for the Maziwa Business Development Programme in Tanzania (Coastal Zone and Lake Zone)*". The study covered all activities along the milk chain (i.e. urban and peri-urban milk production, pastoral milk production, milk collection, milk processing and marketing in Dar es Salaam, Coast, Mwanza and Mara regions). A 47-page report was prepared, submitted and accepted by the client.
- 3.2.6.2 In July 2004, I was part of a twelve-man consultancy team engaged by the **Future Opportunities and Challenges in Agricultural Learning (FOCAL at SUA)** to facilitate a ten-day training course named "*Entrepreneurship and Job Market Preparation*". The course was tailor-made for 720 SUA fresh graduates (2004).
- 3.2.6.3 In May 2005, I was part of a two-man team engaged by **Unilever Tanzania Tea Limited** to carryout a consultancy titled "*Assessment of Carbon Emissions from Wood-Fired Boilers, Diesel-Operated Generators and Diesel-Operated Water Pumps and Work Floor Illumination at Lugoda, Kibwele and Kilima Tea Processing Factories*". A 22-page report was prepared, submitted and accepted by the client.
- 3.2.6.4 In May 2007, I was part of a three-man team of a not-for-profit NGO (Seeds of Hope) engaged by the **Social Action Trust Fund (SATF – a not-for-profit NGO)** to carryout a consultancy titled "*Situation analysis of orphans and vulnerable children in Morogoro Urban, Morogoro Rural and Lushoto districts*". Reports and OVC Registers for each of the three districts were prepared, submitted and accepted by the client.

4 AWARDS AND HONOURS

4.1 Academic Awards and Honours

- 4.1.1 Best student in the course *Plant Design* (1986)
Department of Chemical and Process Engineering, Faculty of Engineering, University of D'Salaam
- 4.1.2 Honours (1986): BSc (Engineering)
Faculty of Engineering, University of D'Salaam
- 4.1.3 Distinction (1988): MSc (Food Process Engineering)
Faculty of Agriculture and Food, University of Reading, UK

4.2 Awards and Honours at SUA

- 4.2.1 University-wide Letter of Commendation (1990).

4.2.2 Departmental Best Worker, Department of Food Science and Technology (1992)

4.3 Scholarly Awards

- 4.3.1 Overseas Development Administration (ODA) (September 1987 – August 1988)
A one-year full grant to cover all expenses on an MSc program at the University of Reading, UK.
- 4.3.2 Inter-University Council (IUC) for East Africa (May – July, 1991)
A nine-week full grant to cover all expenses on a part-time teaching mission at Makerere University under the IUC Staff Exchange Program, UGANDA
- 4.3.3 Japan International Cooperation Agency (JICA) (February – March, 1995)
A one-month full grant to cover all expenses on a Third Regional Group Training Program on *Applied Food Analysis*, at Jomo Kenyatta University of Agriculture and Technology, KENYA
- 4.3.4 Fulbright Scholarship (July 1996 – August 1998)
A two-year full grant to cover all expenses in the first two years of my PhD programme at Kansas State University. The grant was offered by the United States Information Agency (USIA) through the Institute of International Education (IIE), USA.
- 4.3.5 Graduate Research Assistantship (August 1998 – May 2001)
A three-year Assistantship that enabled me to finish my PhD programme at Kansas State University. The Assistantship was offered by the Department of Biological and Agricultural Engineering, Kansas State University, USA.
- 4.3.6 Kigali Institute of Science, Technology and Management (KIST) (July – September 2003)
A nine-week paid contract that enabled me accomplish a part-time teaching mission at KIST, RWANDA
- 4.3.7 US State Alumni Mini-Grant Award (July – October 2008)
This was a two-months mini-grant (USD 3,180) offered by the US Embassy in Tanzania to a three-man team (all Fulbright Alumni) to enable the team to carryout a project titled "*Strengthening Science Education in Tanzania*" in Morogoro Municipality, Mvomero and Kilosa districts of Morogoro region in Tanzania.

5 PUBLICATIONS

5.1 Papers in Refereed Journals

- 5.1.1 **Ballegu, W.R.W.** (1998): Packaging of Ready-To-Eat Breakfast Cereals for Retail Outlets. *Cereal Foods World* **43** (7): 587 – 589
- 5.1.2 Silayo, V.C.K., Mpagalile, J.J., **Ballegu, W.R.W.** and Laswai, H.S. (2004): Participatory evaluation and improvement of cassava processing machines for the eastern zone of Tanzania. *Uhandisi Journal* **27** (2)
- 5.1.3 Tiisekwa, B.P.M., Senkondo, E.M., **Ballegu, W.R.W.** and Kimanya, M. (2005): An Overview of Agro-Processing Industry in Tanzania. *UONGOZI: Journal of Management and Development Dynamics* **17** (1): 69 – 92
- 5.1.4 Chove, B.E., **Ballegu, W.R.W.** Chove, L.M. (2006): Copper and lead levels in two popular leafy vegetables in Morogoro municipality, Tanzania. *Tanzania Health Research Bulletin* **8**(1): 37 – 40
- 5.1.5 Laswai, H.S., Silayo, V.C.K., Mpagalile, J.J. and **Ballegu, W.R.W.** (2006): Improvement and popularisation of diversified cassava products for income generation and food security: A case study of "kibabu". *African Journal of Food, Agriculture and Nutrition Development (AJFAND)* **6** (1): ? – ?

- 5.1.6 **Ballegu W.R.W.**, Laswai, H.S., Mpagalile, J.J., Silayo, V.C.K. and Mansour, H. (2006): Small-scale production and acceptability of wheat-cassava-soy sheeted noodles. *Tanzania Food and Nutrition Journal* **2** (1): 7 – 16
- 5.1.7 Mpagalile, J.J., Silayo, V.C.K., Laswai, H.S., **Ballegu, W.R.W.**, Nyborg, I., Mtunda, K. and Chilosa, N. (2006): Food processing shops as stimulants to dissemination of cassava processing technologies in rural areas of Tanzania. *Tanzania Food and Nutrition Journal* **2** (1): 17 – 23
- 5.1.8 Mpagalile, J.J., Laswai, H.S., **Ballegu, W.R.W.** and Silayo, V.C.K. (2008): The effectiveness of a novel steaming method in improving small scale soybean dehulling. *African Journal of Food, Agriculture and Nutrition Development (AJFAND)*. **X(Y): AB – CD**

5.2 Papers in Proceedings

- 5.2.1 Chove, B.E. and **Ballegu, W.R.W.** (1993): Performance of a Rotating Vegetable Solar Dryer. *Proceedings of the Tanzania Society of Agricultural Engineers (TSAE)* (Ed. Hatibu, N. and Simalenga, T.E.) Vol.5: 60 – 69
- 5.2.2 **Ballegu, W.R.W.** (1995): Processing of Green Leafy Vegetables: Nutrient Loss Due to Blanching and Subsequent Drying of Cowpea Leaves (*Vigna unguiculata*). *Proceedings of the Third Group Training Programme on Applied Food Analysis*, (Ed. L.E. Wongo, P.M. Kutima, C. Kiiyukia, H. Koaze, and C.A. Onyango) 38 – 47
- 5.2.3 **Ballegu, W.R.W.**, Chung, D.S., Kim, Y.S. and Seib, P.A. (2000): Hydrothermal Processing of Wheat Gluten Isolate: Effect on Rheological Properties. *Proceedings of the 2000 Annual Meeting of the American Association of Cereal Chemists (AACC)*. Kansas City – Missouri, November 5 – 9, 2000. p. 69 – 73
- 5.2.4 Tiisekwa, B.P.M., Senkondo, E.M., **Ballegu, W.R.W.** and Kimanya, M. (2003): Situational Analysis of Agro-Processing Industry in Tanzania. A Lead Paper in the *Proceedings of the Second Collaborative Research Workshop on Food Security, TARP II-SUA*. (Ed. Kinabo, L.D.B., Malimbwi, R.E., Lyimo-Macha, J.G., Makungu, P.J., Nyaki, A.A. and Madata, C.S.) p. 21 – 35
- 5.2.5 Silayo, V.C.K., Mpagalile, J.J., **Ballegu, W.R.W.**, Laswai, H.S., Mtunda, K., Chilosa, D.N. and Nyborg, I. (2004): Strategic processing of cassava into flour for maximisation of profits: Experience from the eastern zone of Tanzania. *Proceedings of the Third Collaborative Research Workshop Jointly Organised by The Ministry of Agriculture and Food Security and Sokoine University of Agriculture* held in Morogoro, 24 – 26 May 2004. p. 236 – 245
- 5.2.6 Laswai, H.S., Silayo, V.C.K., Mpagalile, J.J., **Ballegu, W.R.W.**, Nyborg, I., Mtunda, K. and Chilosa, D.N. (2004): Chemical composition, acceptability and economic value of cassava-wheat substitutions in buns, chapatti and bread. *Proceedings of the Third Collaborative Research Workshop Jointly Organised by The Ministry of agriculture and Food Security and Sokoine University of Agriculture* held in Morogoro, 24 – 26 May 2004. p. 228 - 235
- 5.2.7 Silayo, V.C.K., Laswai, H.S., Mpagalile, J.J., **Ballegu, W.R.W.**, Mtunda, K.J., Chilosa, D.N., Nyborg, I. and Makungu, P.J. (2003): Testing and Modification of Cassava Grating and Chipping Technologies for Producing Diversified Cassava Based Products in Tanzania. *Proceedings of the Second Collaborative Research Workshop on Food Security, TARP II-SUA*. (Ed. Kinabo, L.D.B., Malimbwi, R.E., Lyimo-Macha, J.G., Makungu, P.J., Nyaki, A.A. and Madata, C.S.) p. 272 – 280.
- 5.2.8 Laswai, H.S., Martin, H.D., Ndanshau, J., Kulwa, K., Silayo, V.C.K., Mpagalile, J.J., **Ballegu, W.R.W.**, Kadigi, R. and Rweyemamu, C.L. (2006): Effect of incorporation of processed soybean in cowpea-banana complementary food on nutritional quality and acceptability of varying levels of soybean inclusion. Paper presented at the PANTIL Workshop on Transforming Livelihoods of Small-scale Farmers 23 – 25 September 2006, (Ed. **YTR**) pp **239 – 245**

- 5.2.9 Laswai, H.S., Thonya, N., V.C.K., Silayo, Kulwa, K., Mpagalile, J.J., Kadigi, R., **Ballegu, W.R.W.** and Rweyemamu, C.L. (2006): Suitability and acceptability of soybean varieties in production of fruit flavoured soy milk. Paper presented at the PANTIL Workshop on Transforming Livelihoods of Small-scale Farmers 23 – 25 September 2006, (Ed. **YTR**) pp **234 – 238**
- 5.2.10 Silayo, V.C.K., Laswai, H.S., Kulwa, K., Mpagalile, J.J., Kadigi, R., **Ballegu, W.R.W.** and Rweyemamu, C.L. (2006): Adaptation of the traditional coffee pulping machine to soybean dehulling. Paper presented at the PANTIL Workshop on Transforming Livelihoods of Small-scale Farmers 23 – 25 September 2006,(Ed. **YTR**) pp 258 – 262
- 5.2.11 Mpagalile, J.J., Laswai, H.S., **Ballegu, W.R.W.**, Silayo, V.C.K., Makindara, J. and Mtanga, F. (2006): The effectiveness of a novel steaming method in improving soybean dehulling under farmers conditions. Paper presented at the PANTIL Workshop on Transforming Livelihoods of Small-scale Farmers 23 – 25 September 2006, (Ed. **TRY**) pp 227 – 233
- 5.2.12 Silayo, V.C.K., Laswai, H.S., Lazaro, E.L., Mpagalile, J.J., **Ballegu, W.R.W.**, Kadigi, R., Muhana, M., Nyborg, I., Wetlesen, A. and Wickland, T. (2006): The status of cassava production, utilisation, processing and marketing in Tongwe, Kabuku, Chanika and Mikongeni villages. Paper presented at the PANTIL Workshop on Transforming Livelihoods of Small-scale Farmers 23 – 25 September 2006, (Ed. **TRY**) pp **UYT – TYR**
- 5.2.13 Laswai, H.S., Yesaya, D., **Ballegu, W.R.W.**, Mpagalile, J.J., Kulwa, K., Silayo, V.C.K. and Kadigi, R. (2007): Soybean bean flavour: A novel way of eliminating the problem by resource poor households. Paper presented at the PANTIL Second Annual Research Conference, Morogoro Hotel, TANZANIA 15th – 17th October 2007 (Ed. **YTR**) pp. **249 – 255**.
- 5.2.14 Laswai, H.S., Kilimali, E.V., **Ballegu, W.R.W.**, Mpagalile, J.J., Kulwa, K., Silayo, V.C.K. and Kadigi, R. (2007): Chemical composition and acceptability of soybean "kashata" snack. Paper presented at the PANTIL Second Annual Research Conference, Morogoro Hotel, TANZANIA 15th – 17th October 2007 (Ed. **YTR**) pp. **249 – 255**.

5.3 Conference Poster

- 5.3.1 Mpagalile, J.J., Silayo, V.C.K., **Ballegu, W.R.W.** and Laswai, H.S. (2003): Post harvest research on sweet potato and cassava: Experience from Sokoine University of Agriculture (SUA), Morogoro, Tanzania. *A Poster Presented at The Thirteenth Symposium Of The International Society For Tropical Root Crops (ISTRC)*. AICC Arusha, 10th – 14th November, TANZANIA.

5.4 Dissemination Materials

- 5.4.1 Lekule, F.P., Silayo, V.C.K., Shem, M., Laswai, H.S., Mutayoba, S.K., Mpagalile, J.J., Laswai, G.H., Sarwatt, S.V., Makindara, J.R., Mbwile, R.P., **Ballegu, W.R.W.**, Mtunda, K., Malole, J., Chilosa, D., and Nyborg, I. (2004): *Muhogo na viazi vitamu kwa biashara*. A chapter in a monograph "Usambazaji wa Teknolojia, Juzuu namba 3: "USINDIKAJI, MASOKO na MATUMIZI ya MAZAO ya KILIMO" A monograph targeting extension officers, at various levels, in cassava and sweet potato growing areas. (Editors: V. Muhikambe, F.P. Lekule, L.D.B. Kinabo and E.K. Batamuzi). Published by TARP II-SUA Project (TS2-94, ISBN 9987-9006-3-1) pp. 26 – 47.
- 5.4.2 Silayo, V.C.K., Laswai, H.S., Mpagalile, J.J., **Ballegu, W.R.W.**, Mtunda, K.J., Chilosa, D.N., Nyborg, I. and Makungu, P.J. (2004): *Usindikaji na matumizi ya muhogo: Muhogo ni chakula; muhogo ni pesa*. A booklet targeting extension officers at various levels and farmers in cassava growing areas. Published by TARP II-SUA Project (TS2 – 83; ISBN 9987 605 907) p. 33
- 5.4.3 Silayo, V.C.K., Laswai, H.S., Mpagalile, J.J., **Ballegu, W.R.W.**, Mtunda, K.J., Chilosa, D.N., Nyborg, I. and Makungu, P.J. (2003): *Usindikaji rahisi wa muhogo: Njia ya kuongeza uhakika wa chakula na pato la kaya*. A leaflet for farmers on simple cassava processing techniques. Published by TARP II-SUA (TS2 – 63).

- 5.4.4 Silayo, V.C.K., Laswai, H.S., Mpagalile, J.J., **Ballegu, W.R.W.**, Mtunda, K.J., Chilosa, D.N., Nyborg, I. and Makungu, P.J. (2003): *Utunzaji rahisi wa viazi vitamu kwa ongezeko la uhakika wa chakula na pato la kaya*. A leaflet for farmers on simple sweet potato storage techniques. Published by TARP II-SUA (TS2 – 82).
- 5.4.5 Laswai, H. S., Kulwa, K. B. M., **Ballegu, W. R. W.**, Silayo, V. C. K., Ishengoma, C. G., Makindara, J. A., Mpagalille, J. J. and Rweyemamu, C. L. (2005): *Soya kwa Lishe Bora – Virutubishi na Matayarisho yake kwa Mapishi Mbali Mbali*. SUA-NORAD FOCAL Programme (ISBN: 9987-422-28-4) p.18
- 5.4.6 Laswai, H.S., Rweyemamu, C.L., Kulwa, K.B., Silayo, V.C.K., Mpagalile, J.J., **Ballegu, W.R.W.** and Kadigi, R. (2007): *Soya na Kilimo, Usindikaji, Matumizi na Masoko yake: Kabrasha kwa Wadau wa Zao la Soya*. A bound training manual targeting farmers and end-users of soybean. p. 44

5.5 Teaching Materials

- 5.5.1 **Ballegu, W.R.W.** (1996): *Physics for Home Economics – OHE 105*. A teaching compendium (Edited by Prof. C. Kiwanga) for first year distance-learning students pursuing BSc (Home Economics) at the Open University of Tanzania (OUT), **TANZANIA** p. 66 (bound)
- 5.5.2 **Ballegu, W.R.W.** and Mpagalile, J.J. (2007): *Basic Engineering Drawing and Communication – FT 101*. A teaching compendium for first year students pursuing B.Sc. (Food Science and Technology) at Sokoine University of Agriculture (SUA), **TANZANIA**. p. 29 (bound)
- 5.5.3 **Ballegu, W.R.W.** and Mpagalile, J.J. (2007): *Principles of Food Engineering-I – FT 102*. A teaching compendium for first year students pursuing B.Sc. (Food Science and Technology) at Sokoine University of Agriculture (SUA), **TANZANIA**. p. 45 (bound)
- 5.5.4 **Ballegu, W.R.W.** (2007): *Materials Science for Food Technologists – FT 104*. A teaching compendium for first year students pursuing B.Sc. (Food Science and Technology) at Sokoine University of Agriculture (SUA), **TANZANIA**. p. 50 (bound)
- 5.5.5 **Ballegu, W.R.W.** (2007): *Technology and the Environment – BS 202*. A teaching compendium for second year students pursuing B.Sc. (Environmental Sciences and Management) at Sokoine University of Agriculture (SUA), **TANZANIA**. p. 37 (bound)
- 5.5.6 **Ballegu, W.R.W.** (2005): *Energy and the Environment – PS 302*. A teaching compendium for third year students pursuing B.Sc. (Environmental Sciences and Management) at Sokoine University of Agriculture (SUA), **TANZANIA**. p.38 (bound)

5.6 Other Writings

- 5.6.1 **Ballegu, W.R.W.** (1986): *Solar Powered Air Dehumidifier*. A B.Sc. Dissertation (unpublished). Faculty of Engineering, University of Dar es Salaam, **TANZANIA**
- 5.6.2 **Ballegu, W.R.W.** (1988): *Effect of Storage Conditions and Storage Time on Textural Properties of Some Foods*. An M.Sc. Dissertation (unpublished). Faculty of Agriculture and Food, Univ. of Reading, **UK**
- 5.6.3 **Ballegu, W.R.W.** (2001): *Effect of a Hydrothermal Process on Functional Properties of Wheat Gluten Isolate*. A PhD Thesis (unpublished). College of Engineering, Kansas State University, **USA**

6 REFEREES

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7 CERTIFICATION

I, the undersigned, certify that to the best of my knowledge and belief the information contained herein is correct and truly describes me, my qualifications and my experience.

Signature

Date