

K.S.P. Amaratunga - Curriculum Vitae



Department of Agricultural Engineering,
Faculty of Agriculture,
University of Peradeniya,
Sri Lanka

Phone: +94-81-239 5465
Cell: +94-71-833 9593
Fax: +94-81-239 5464
Email: ksp@pdn.ac.lk

Personnel Information

Name in full Kahawattage Sanath Priyantha Amaratunga
Date of birth 13/05/1964
Home address A75, Imbulana, Ruwanwella, Sri Lanka
Marital state Married

Education

- Ph.D. in Agricultural Process Engineering, Kyushu University, Japan, March 1997
- M.Agri. in Agricultural Process Engineering, Kyushu University, Japan, March 1993
- B.Sc. (Agric.) Second Class Honours (Upper Division) pass, Specialized in Agricultural Engineering, University of Peradeniya, Sri Lanka, February 1988

Awards

- National Science Foundation (NSF) Technology Awards, 2014/2015
- President's Award for scientific publication in 2008
- Sri Lanka Presidential Award for short term scholarships, 2000
- MONBUSHO Scholarship from the Ministry of Education, Japan, for postgraduate studies, 1991

Language and IT Skills

- Languages: English, Japanese (speaking), Sinhalese (native)
- Computer Skills: L^AT_EX, C, ASSEMBLY, Python, QBASIC, AUTOCAD

Current Interests

- Agricultural Product Processing
- Use of Infrared Radiation and Microwaves in Agriculture
- Alternative Energy Sources in Agriculture
- Electronics and Instrumentation in Agriculture
- Embedded Systems and Robotics in Agriculture

Work Experience

University of Peradeniya

Professor

Postharvest Technology, Heat and Mass
Transfer, Fluidization Engineering,
Dielectric Heating (microwave), Electronics
& Instrumentation, Mathematics

Sri Lanka

23/03/2016 to upto now

University of Peradeniya

Senior Lecturer Grade I

Postharvest Technology, Heat and Mass
Transfer, Fluidization Engineering,
Dielectric Heating (microwave), Electronics
& Instrumentation, Mathematics

Sri Lanka

10/01/2011 to 23/03/2016

University of California Davis

Dept. of Bio. and Agric. Engineering

Postdoctoral Researcher

PI: Assistant Professor Zhongli Pan

PI: Professor Paul Singh

Process Control & Automation, Use of
Electrolized Water in CIP Applications,
Freezing Characteristics of Pomogranate
Arils

Application of Infrared Radiation for
Processing Agricultural Materials.

Davis, CA, USA

29/09/2003 to 28/09/2006

University of California Davis
Dept. of Bio. and Agric. Engineering
Postdoctoral Researcher
PI: Assistant Professor Zhongli Pan
Rice Drying Using Infrared Radiation.

Davis, CA, USA
March to June 2003

University of Peradeniya
Senior Lecturer Grade II
Agricultural Process Engineering,
Engineering Drawing, Heat Transfer,
Electronics and Instrumentation.

Sri Lanka
31/03/1997 to 10/01/2011

University of Peradeniya
Lecturer
Agricultural Process Engineering,
Engineering Drawing, Heat Transfer,
Electronics and Instrumentation

Sri Lanka
28/06/1990 to 31/03/1997

University of Peradeniya
Temporary Assistant Lecturer
Engineering Drawing, Agricultural
Machinery, Surveying and Leveling.

Sri Lanka
10/10/1989 to 27/06/1990

Postgraduate Research Supervision (Senior Supervisor)

- Completed Ph.D. in the Postgraduate Institute of Agriculture - 4
- Completed M.Phil. in the Postgraduate Institute of Agriculture - 4

Research Projects and Consultancy

- Design and development of a chilli cleaning and pneumatic transport system.
Client: Ruhunu Foods (Pvt) Ltd, Kundasale, 2015.
- Design and development of a post milling far-infrared rice flour gelatinizer.
Client: Ruhunu Foods (Pvt) Ltd, Kundasale, 2015.
- Design and development of an evaporative cooling system for the spice milling factory at BOI, Kundasale.
Client: Ruhunu Foods (Pvt) Ltd, Kundasale, 2014.
- Design and development of a wet scrubber for the spice milling factory at BOI, Kundasale.
Client: Ruhunu Foods (Pvt) Ltd, Kundasale, 2013.
- Design and development of a rice flour gelatinization system with a capacity of 300kg/h.
Client: Ruhunu Foods (Pvt) Ltd, Kundasale, 2012.

- Technical Consultant/Engineer, ICEI, technical supervision and commissioning of the bio-fertilizer plant translocation from Agriculture Biology Laboratory of the Faculty of Agriculture to the Biotechnology Center of the University of Peradeniya, 1/12/2012 to 15/01/2013.
- Improvement and field testing of a solar powered, lift and carry type milking machine. Funded by National Science Foundation, Sri Lanka, 2011.
- Evaluation and improvement of processing techniques for underutilized fruits in Sri Lanka - Detailed study on Goraka, Nelli and Tamarind. Funded by National Science Foundation, Sri Lanka, 2002.
- Evaluation and selection of processing machineries for establishment of a rice processing facility in the dry zone of Sri Lanka.
Client: Chemical Industries Colombo (CIC) Ltd., Sri Lanka, 2002.
- Design and development of a data acquisition, control and monitoring system for aerobic and non aerobic urban waste digesting systems.
Client: Solid Waste Management Project of the University of Peradeniya, Sri Lanka. Through Agribusiness center, University of Peradeniya, 2002.
- Evaluation of ground water yield with agricultural practices.
Client: Sri Lanka Water Supply and Drainage Board, through Agribusiness Center, Faculty of Agriculture, 2002.
- Design and development of an environment control and data acquisition system for open top elevated CO₂ field trial for studying CO₂ enrichment in rice.
Client: Dr. W.A.J.M. De Costa, Department of Crop Science, Faculty of Agriculture, University of Peradeniya, through Agribusiness Center, Faculty of Agriculture, 2001.
- Study on adsorption and desorption properties of coir fiber.
Client: Jafery Brothers, Colombo. Through Agribusiness Center, Faculty of Agriculture, 2001.
- Feasibility study on fully mechanized maize cultivation in the dry zone of Sri Lanka. Position: Consultant; Nature: Full time; Period: July to August, 2000; Granting Organization: National Development Bank (NDB) of Sri Lanka.
- Design and development of a PC-based data acquisition and control system for green house research. Funded by National Science Foundation, Sri Lanka, 2000.
- Design and Fabrication of Incinerators.
Client: Institute of Adaptive Research and Rural Enterprise Development, 2000.
- Design and development of a solar/battery powered milking machine. Funded by AGENT, 2000.
- Evaluation and improvement of a fruit and vegetable dryer.
Client: Mahaweli Canneries, Kundasale, through Agribusiness Center, Faculty of Agriculture, 1998.

Publications

Journal Publications

Fernando, A. J., **Amaratunga, K. S. P.**, Dharmasena, D. A. N., Abeyrathna, R. M. R. D., Gajasinghe, I. L., Weerakoon, H. S. T., Ekanayake, E. M. A. C., & Bandara, D. M. S. P. (2022). Pulse-Width-Modulation control of a heat pump dryer with cascade evaporators and parallel-flow condensers. *Tropical Agricultural Research*, 33(1), 9–17. DOI: <http://doi.org/10.4038/tar.v33i1.8532>.

Fernando, A. J. & **Amaratunga, K. S. P.** (2022). Application of far-infrared radiation for sun-dried chili pepper (*Capsicum annum* L.): drying characteristics and color during roasting. *Journal of the Science of Food and Agriculture*. DOI: <http://doi.org/10.1002/jsfa.11726>.

Kavindi, M. A. R., **Amaratunga, K. S. P.**, Ekanayake, E. M. C., Fernando, A. J., & Abesinghe, A. M. S. K. (2022). CFD simulation of airflow distribution in a heat pump assisted deep-bed paddy dryer. *Applied Engineering in Agriculture*, 38(1):1-8. DOI: 10.13031/aea.14483.

Fernando, A. J., Gunathunga, C., Brumm, T., & **Amaratunga, S.** (2021). Drying turmeric (*Curcuma longa* L.) using far-infrared radiation: Drying characteristics and process optimization. *Journal of Food Process Engineering*, 44(9), e13780.

Fernando, A. J., **Amaratunga, K. S. P.**, Madhushanka, H. T. N., & Jayaweera, H. R. Y. S. (2021). Drying performance of coffee in a batch-type heat pump dryer. *Transactions of the ASABE*, 64(4), 1237-1245. DOI: 10.13031/trans.14268.

Sewwandi, U. G. C., Ekanayake, E. M. A. C., **Amaratunga, K. S. P.**, Fernando, A. J., & Abeyrathne, R. M. R. D. (2019). Drying characteristics of Katuwelbatu (*Solonum virginianum* L.) during heat-pump drying. *International Journal of Scientific and Engineering Research*, (10), 1670-1672.

Ekanayake, E. M. A. C., **Amaratunga, K. S. P.**, Kariyawasam, H. K. P. P., Fernando, A. J., & Abeyrathne, R. M. R. D. (2019). Design and development of a closed cycle heat pump drying system for industrial drying of rice and chili. *Journal of Scientific and Engineering Research*, (6), 1-7.

Fernando, A. J., **Amaratunga, K. S. P.**, Priyadarshana, L. B. M. D. L., Galahitiyawa, D. D. K., & Karunasinghe, K. G. W. U. (2014). Roasting chilli (*Capsicum annum* L.) using far-infrared radiation. *Tropical Agricultural Research*, 25(2):180-187.

Bandara, D. M. S. P., **Amaratunga, K. S. P.**, Thilakaratne, B. M. K. S., Dissanayake, T. M. R., Dharmasena, D. A. N., & Fernando, A. J. (2014). Feasibility study of evaporative water cooled (EWC) grinding method for chilli (*Capsicum annum* L.). *Tropical Agricultural Research*, 26(1):189-194.

Kariyawasam, H. K. P. P., **Amaratunga, K. S. P.**, Basnayake, B. F. A., Priyadarshana, L.

- B. M. D. L., Galahitiyawa, D. D. K., & Karunasinghe, K. G. W. U. (2014). Rice grain cooling using intermittent adsorption and desorption of water vapor: development of a mathematical model. *Tropical Agricultural Research*, 25(4):387-401.
- Botheju, W. S., **Amaratunga, K. S. P.**, & Abeysinghe, I. S. B. (2011). Thin layer drying characteristics of fresh tea leaves. *Journal of the National Science Foundation of Sri Lanka*, 39(1):61-67.
- Botheju, W. S., **Amaratunga, K. S. P.**, & Abeysinghe, I. S. B. (2011). Simulation of trough withering of tea using one dimensional heat and mass transfer finite difference model. *Tropical Agricultural Research*, 22(3): 282-285.
- Jayasinghe, I. H., Basnayake, B. F. A., **Amaratunga, K. S. P.**, & Dissanayake, P. B. R. (2010). Environmental conservation efforts in developing textile waste incorporated cement blocks. *Tropical Agricultural Research*, 21(2):126-133.
- Amaratunga, S. P.**, Danyluk, M. D., Harris, L. J., & Singh, R. P. (2008). Effectiveness of electrolyzed water in clean-in-place applications for systems fouled with apple juice. *Food Manufacturing Efficiency*, 2(1):15.
- Botheju, W. S., **Amaratunga, K. S. P.**, & Mohamed, M. Z. (2008). Modeling moisture desorption isotherms and thermodynamic properties of fermented tea dhoor (*Camellia sinensis* var. assamica). *Drying Technology*, 26(10):1294-1299.
- Lagunas-Solar, M. C., Pan, Z., Zeng, N. X., Truong, T. D., Khir, R., & **Amaratunga, K. S. P.** (2007) Application of radiofrequency power for non-chemical disinfestation of rough rice with full retention of quality attributes. *Applied Engineering in Agriculture*. 23(5):647-654.
- Pan, Z., **Amaratunga, K. S. P.**, & Thompson, J. F. (2007). Relationship between rice sample milling conditions and milling quality. *American Society of Agricultural and Biological Engineering*, 50(4):1307-1313.
- Gabel, M. M., Pan, Z., **Amaratunga, K. S. P.**, Harris, L. J., & Thompson, J. F. (2006). Catalytic infrared dehydration of onions. *Journal of Food Science*, 71(9):351-357.
- De Costa, W. A. J. M., Weerakoon, W. M. W., Herath, H. M. L. K., **Amaratunga, K. S. P.**, & Abeywardena, R. M. I. (2006). Physiology of yield determination of rice under elevated carbon dioxide at high temperatures in a subhumid tropical climate. *Field Crops Research*, 96(2):336-347.
- Pan, Z., Olson, D. A., **Amaratunga, K. S. P.**, & Olsen, C. W. (2005). Feasibility of using infrared heating for blanching and dehydration of fruits and vegetables.
- Pan, Z., Thompson, J. F., **Amaratunga, K. S. P.**, Anderson, T., & Zheng, X. (2005). Effect of cooling methods and milling procedures on the appraisal of rice milling quality. *Transactions of the ASABE*, 48(5), 1865-1872.

Weerakkody, W. A. P., & **Amaratunga, K. S. P.** (2005). Impact of ridge and side vents for ventilation based temperature control in single span greenhouses. *Sri Lankan Journal of Agricultural Sciences*, 42.

Tanaka, F., Murata, S., **Amaratunga, K. S. P.**, Uchino, T., & Habara, K. (1997). Theoretical analysis of estimation for freezing curve in green peas by fluidized bed freezer. *Journal of the Japanese Society for Food Science and Technology*, 44(5):347-352.

Tanaka, F., Murata, S., Habara, K., & **Amaratunga, K. S. P.** (1996). Study of freezing-point depression of selected food extracts *American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.*, Atlanta, GA.

Koide, S., Murata, S., Uchino, T., Sugawara, Y., Tanaka, F., & **Amaratunga, K. S. P.** (1996). Airflow resistance through packed wheat bed. *Journal of the Japanese Society of Agricultural Machinery*, 58(6):111-117.

Koide, S., Murata, S., Uchino, T. & **Amaratunga, K. S. P.** (1996). Drying characteristics of sweet potato. *Journal of the Faculty of Agriculture, Kyushu University*, 41 (1-2):125-132.

Murata, S., Tanaka, F., **Amaratunga, K. S. P.**, Shibuya, K., & Tagawa, A. (1996). Water adsorption isotherms of polished rice: Analysis of equilibrium moisture content using the modified Chen-Clayton's equation. *Journal of the Japanese Society of Agricultural Machinery* (Japan).

Murata, S., Tanaka, F., **Amaratunga, K. S. P.**, Shibuya, K., & Tagawa, A. (1996). Water adsorption isotherms of polished rice. *Journal of Japanese Society of Agricultural Machinery*, 58:29-34.

Murata, S., Tanaka, F. Tokunaga, J., Koide, S., & **Amaratunga, K. S. P.** (1996) Study on sorption of grain kernels while soaking in water. *Journal of the Japanese Society of Agricultural Machinery*, 58(2):19-24.

Murata, S., **Amaratunga, K. S. P.**, Tanaka, F., Shibuya, K., Koide, S., & Uchino, T. (1996). Simulation of moisture adsorption by polished rice in deep-bed. *Food Science and Technology International*, Tokyo, 2(2):86-91.

Murata, S., Hussain, S., Koide, S. Daisuke, I., & **Amaratunga, K. S. P.** (1995). Effect of sub-atmospheric pressure milling on controlling rice flour temperature. *Journal of the Japanese Society of Agricultural Machinery*. 57(4):53-57.

Murata, S., Koide, S., Sugawara, Y., Tanaka, F. & **Amaratunga, K. S. P.** (1995). Resistance of ventilation of wheat bed. *Journal of Kyushu Branch of the Japanese Society of Agricultural Machinery*, (7.9):41-44.

Murata, S., Tanaka, F., **Amaratunga, K. S. P.**, Shibuya, K., & Uchino, T. (1995). Mea-

surement of the adsorption equilibrium moisture content of polished rice: Effect of initial moisture content on the adsorption equilibrium moisture content. *Journal of the Japanese Society of Agricultural Machinery* (Japan).57(6):45-52.

Murata, S., **Amaratunga, K. S. P.**, Tanaka, F., Miyauchi, K., & Hori, Y. (1995) Moisture adsorption characteristics of polished rice under reduced pressure conditions. *Science Bulletin of the Faculty of Agriculture-Kyushu University*, 56:477-478.

Murata, S., Tanaka, F., & **Amaratunga, K. S. P.** (1994). Drying characteristics of potato, (Part I): Measurement of basic drying characteristics for the theoretical interpretation of frying under reduced pressure. *Journal of the Japanese Society of Agricultural Machinery*, 56(4):45-52.

Murata, S., Shibuya, K., **Amaratunga, K. S. P.**, & Tanaka, F. (1994). Determination of desorption properties of Atzuki beans: The measurement and analysis of equilibrium moisture content. *Journal of Kyushu Branch of the Japanese Society of Agricultural Machinery*. 43:56-59.

Amaratunga, K. S. P. (1994). Adsorption and desorption properties of polished rice. *Science Bulletin, Faculty of Agriculture, Kyushu University*. 6:139-149.

Murata, S., Miyauchi, K., **Amaratunga, K. S. P.**, & Hori, Y. (1994). Rough rice drying by the paddy container, (Part II): Heated air drying by electric heater. *Journal of the Japanese Society of Agricultural Machinery*, 56(4):13-20.

Murata, S., Tanaka, F., Nakata, Y., & **Amaratunga, K. S.P.** (1994). Drying characteristics of potato, (Part II): Frying simulation under reduced pressure. *Journal of the Japanese Society of Agricultural Machinery*.

Murata, S., **Amaratunga, K. S. P.**, Tanaka, F., & Hori, Y. (1993). Effect of initial moisture content on the adsorption and desorption equilibrium moisture content of polished Rice. *Journal of the Faculty of Agriculture, Kyushu University*. 8(1.2):161-173.

Murata, S, Tanaka, F., **Amaratunga, K. S. P.** &, Kawano, T. (1993). Drying characteristics of potato under frying temperatures. *Journal of Kyushu Branch of the Japanese Society of Agricultural Machinery*, 42:68-72.

Murata, S., Tokunaga, J., Tanaka, S., Koide, S., & **Amaratunga, K. S. P.** (1993). Study on sorption of polished rice by soaking in water. *Journal of Kyushu Branch of the Japanese Society of Agricultural Machinery*, 42(9):49-52.

Murata, S., Kawano, T., Nakano, K., Kida, T., Tanaka, F., Seki, R., Koide, S., Sorour, H.M.H., & **Amaratunga, K. S. P.**(1993). The respiration characteristics of cereal grains (Part II). *Journal of Kyushu Branch of the Japanese Society of Agricultural Machinery*, 42(9):61-68.

Murata, S., Kawano, T., Nakano, K., Tanaka, F., Seki, R., Koide, S., Kida, T., Sorour, H. M. H., & **Amaratunga, K. S. P.** (1993). Estimation of the boiling Heat transfer coefficient during rapid freezing of soybean seeds by liquid nitrogen. *Journal of Kyushu Branch of the Japanese Society of Agricultural Machinery*, 42(9):73-80.

Murata, S., **Amaratunga, K. S. P.**, Tanaka, S., & Hori, Y. (1993) Adsorption equilibrium moisture contents of polished rice. *Journal of Kyushu Branch of the Japanese Society of Agricultural Machinery*, 42:43-48.

Conference Proceedings

Fernando, A. J., **Amaratunga, K. S. P.**, Weerakoon, S., Gajasinghe, I., & De Silva, R. (2021). Algorithm for calculating design parameters of batch type heat pump dryer. 5th CIGR (International Commission of Agricultural and Biosystems Engineering) International Conference, Quebec, Canada

Fernando, A. J., **Amaratunga, K. S. P.**, Madhushanka, H. T. N., & Jayaweera, H. R. Y. S. (2020). Drying performance of coffee in a batch-type heat pump dryer. ASABE Annual International Meeting, USA.

Fernando, A. J., **Amaratunga, K. S. P.**, Priyadarshana, L. B. M. D. L., Galahitiyawa, D. D. K., & Karunasinghe, K. G. W. U. (2014) Far-infrared radiation roasting colour of chilli. Proceedings of IBA-IC, *International Conference on India at the Cross Roads: The Way Ahead*, February 7th-8th 2014, 62-71pp.

Fernando, A. J., **Amaratunga, K. S. P.**, & Priyadarshana, L. B. M. D. L. (2014). Far-infrared drying of stored coriander (*Coriandrum sativum L.*) up to grinding moisture content. *Proceedings of the International Postharvest Research Symposium*, Institute of Postharvest Technology, Jayanthi Mawatha, Anuradhapura, June 19th, 2014, 125-129pp.

Abhiram, G. & **Amaratunga, K. S. P.** (2014). The performance analysis of far infrared emission on rice flour gelatinization. *Proceedings of the International Post Harvest Research Symposium*, Institute of Postharvest Technology, Jayanthi Mawatha, Anuradhapura, June 19th, 2014, 110-113pp.

De Costa, W. A. J. M., **Amaratunga, S. P.**, & Udumullage, R. S. (2001). Transpiration of tree species in different vertical layers of a Kandyan forest garden. *Proceedings of International Forestry and Environment Symposium*, Department of Forestry and Environmental Science, University of Sri Jayawardanapura, Nugegoda, December 2001.

Botheju, W. S., **Amaratunga, K. S. P.**, & Abeysinghe, I. S. B. (2010). Modeling trough withering system to predict moisture content of tea leaves at real time using 1D heat and mass transfer finite difference model. *Proceedings of the 3rd Symposium on Plantation Crop Research*, Cinnamon Grand Hotel, Colombo, September 31st and October 1st, 2010, 27-41pp.

Amaratunga, K. S. P., Pan, Z., Zheng, X., & Thompson, J. F. (2005). Comparison of drying characteristics and quality of rough rice dried with infrared and heated air. In ASABE Annual International Meeting, Tampa Convention Center, Florida, July 17th-20th, 2005.

Pan, Z., Olson, D. A., **Amaratunga, K. S. P.**, Olsen, C. W., & Mc Hughe, T. (2005). Processing and quality characteristics of pears processed by a new infrared dry blanching/dehydration method. *IFT Annual Meeting, July 15-20, 2005, New Orleans, Louisiana.*

Weerakkody, W. A. P., **Amaratunga, K. S. P.**, & Kumara, P. A. S. K. (2004). Applicability of forced-air and ridge ventilation for cooling of side net-covered tropical greenhouses. *International Symposium on Greenhouses, Environmental Controls and In-house Mechanization for Crop Production in the Tropics*, 185-190pp.

Gabel, M., Pan, Z., & **Amaratunga, S. P.** (2004). Quality and safety characteristics of infrared dried onion products. *Annual International Meeting Sponsored by ASABE/CSABE, Canada*, 1-4pp.

Pan Z., **Amaratunga, K. S. P.**, & Thompson, J. F. (2004). Study of drying paddy rice using infrared radiation. *International Food Technology Annual meeting*. July 12-16, 2004, Vegas, USA.

Amaratunga, K. S. P., Kumara, M. M. S. P., & Dris, R. (2000). PC-based controlled environment chamber for studying sorption properties of fruits and vegetables. *International Symposium on Biotechnology Applications in Horticultural Crops*, Beijing, China, September 2000, 80p.

Tanaka, S., Maeda, Y., Morita, K., Murata, S., & **Amaratunga, K. S. P.** (1999). Simulation of pneumatic conveying drying of rice powder. *58th Annual Meeting of Japanese Society of Agricultural Machinery, Saga University, Japan*, April 2nd-4th 1999.

Patents

- Evaporative Water Cooling Grinding (EWC) method for grinding spices - Patent No: 18833 Sri Lanka and International Patent Classification (IPC): A47J 42/00
- Mathematical base control system for trough withering of tea - Application No: 20045
- A process of drying turmeric - Application No: 22158
- A computer program to generate the design parameters of an open-loop heat pump dryer - Application No: 22159

Book Chapters/Editor

Author and editorial board member, Biosystems Technology Part V, Farm Mechanization, Educational Publications Department, Department of Education, Isurupaya, Battaramulla,

2015.

Author and editorial board member, Biosystems Technology Part I, Introduction to Biosystems Technology, Educational Publications Department, Department of Education, Isurupaya, Battaramulla, 2015.

Preparation and edition, G.C.E. (A/L) Biosystems Technology, Model question papers for exams from 2015, Educational Publications Department, Department of Education, Isurupaya, Battaramulla, 2015.

Member of the Subject Committee, Teachers Manual, Biosystems Technology, Educational Publications Department, Department of Education, Isurupaya, Battaramulla, 2014.

Editor, Proceedings of the First Annual Students Research Session, Department of Agricultural Engineering, Faculty of Agriculture, September, 2010.

De Costa, W. A. J. M., **Amaratunga, K. S. P.**, & Udumullage, R. S. (2006). Transpiration characteristics of some home garden tree species in central Sri Lanka. In *Tropical Home Gardens* (251-267pp). *Springer Netherlands*.

Membership in Professional Societies

- American Society of Agricultural and Biological Engineers (ASABE).

Academic and Administrative Positions Held

- Secretary of the board of study of Agricultural Engineering, Postgraduate Institute of Agriculture, University of Peradeniya, 2019 to 2021.
- Head of the Department Agricultural Engineering, Faculty of Agriculture, University of Peradeniya from August 25, 2009 to August 24, 2012.
- Secretary of the board of study of Agricultural Engineering, Postgraduate Institute of Agriculture, University of Peradeniya, from February 2007 to January 2010
- Coordinator, Biosystems Engineering, Board of Study in Agricultural Engineering, Postgraduate Institute of Agriculture, University of Peradeniya, from April 2010 to January 2013.
- Member of the board of study in Biostatistics, Postgraduate Institute of Agriculture, University of Peradeniya, from January 2013 to January 2015.
- Member of the board of study of Computer Science and Statistics, Postgraduate Institute of Science, University of Peradeniya, from 1997 to 1999.

Contribution for National Development

- Member of the Consultative Committee of Tea Research Board
- Member of Scientific Advisory Committee of Tea Research Institute, Talawakele
- Member of Board of Survey Committee of Tea Research Institute, Talawakele
- Served as a resource person in the G.C.E. (A/L) technology subject stream in preparing the syllabus, teachers training, preparing teachers guide, writing text book chapters, preparation of prototype question paper, and G.C.E. (A/L) paper marking
- Attended the “Policy Makers Workshop on Technology Commercialization for Start-Ups and SMEs Development”, Conducted by the Malaysian Technology Development Corporation (MTDC), Kuala Lumpur, Malaysia, 3-7 December 2012

Other Significant Contributions

- Member of Industry Consultative Board, Department of Environmental and Biosystems Engineering, South Asian Institute of Technology and Medicine (SAITM), Malabe, 2016
- Resource person for Workshop on Curriculum Development of Agricultural Engineering Technology Degree Programme of the Uva Wellassa University, 2015.
- Resource person for Curriculum revision of Animal Science Degree Programme, the department of Animal Science, Faculty of Animal Science and Export Agriculture of Uva Wellassa University, 2015.
- Reviewer of the Degree programme on Bachelor of Biosystems Technology (Honours), Sabaragamuwa University of Sri Lanka, 2015
- Moderator of B.Sc.(Special) Degree in Agriculture, Faculty of Agriculture, Rajarata University of Sri Lanka, 2015.
- Member of Curriculum development committee B.Sc. in Agricultural Technology/Engineering Technology/Information and Communication Technology, University Grants Commission, 2013.
- Consultant for Technical Evaluation Team on supply, Installation and Maintenance of Engineering Workshop Equipments of Uva Wellassa University, 2012,
- Member of sub-committee to study and report on further telecommunication needs of the university, 1997.
- Conducted a seminar for G.C.E. (A/L) technology stream students of the North Western Province, arranged by the Provincial Education Department, Kurunegala on 06/04/2015

Technical Evaluation Committees

- Technical evaluation committee to dispose of vehicles at the University of Peradeniya, 2011 (Member)
- Technical evaluation committee to evaluate the quotations for hot cupboards for the canteens (senate & halls of residence), University of Peradeniya, 2014 (Member)
- Technical evaluation committee to evaluate the quotations for electrical items, University of Peradeniya, 2013 (Member)
- Technical evaluation committee/HETC Project, 2012 (Chairman)
- Technical evaluation committee to evaluate the sealed quotations called for purchase of light duty photocopiers, anti-virus software package, desktop computers, network switches and dot matrix printer, University of Peradeniy, 2013 (Chairmen)
- Technical evaluation committee – Purchase of Photocopier for Dept of Clinical Science, Faculty of Veterinary Medicine & Animal Science, University of Peradiniya, 2010 (Member)
- Technical Evaluation Committee to evaluate the quotations called for purchasing of a Theodolite for Dept. of Archeology, Faculty of Arts, University of Peradeniya, 2013 (Chairmen)
- Technical evaluation committee to Faculty of Veterinary Medicine & Animal Science for the year 2014, motor vehicles and repair of motor vehicles, (Member)
- Technical evaluation committee to faculty of Veterinary Medicine & Animal Science for the year 2014, (Member)
- Technical evaluation committee, Faculty of Arts for the year 2013 (Member)
- Independent committee to inspect the vehicles of the University, 2015 (Member)
- Power and audio visual sub committee at the organizing committee of the PURSE 2012 (Member)
- General services committee of the Annual Research Sessions, 1998 (Member)
- Organizing committee of the General Convocation, 2011, (Member)
- Organizing Committee of Peradeniya University Research Sessions, 2012 (Member)

References

- **Professor K.G.A. Goonasekera**
Dept. of Agric. Engineering,
Faculty of Agriculture,
University of Peradeniya, Peradeniya.
Phone: +94 71 830 6878
Fax: +94 81 239 5454
kapilag@pdn.ac.lk

- **Professor B. F. A. Basnayake**
Dept. of Agric. Engineering,
Faculty of Agriculture,
University of Peradeniya, Peradeniya.
Phone: +94 81 239 5475
Fax: +94 81 239 5454
nri.srilanka@gmail.com

- **James F. Thompson**
Cooperative Extension Specialist
(Collaborative Principle Investigator)
Department of Biological and Agricultural Engineering
University of California Davis, One Shields Ave., Davis, CA 95616.
Phone: +1 530 752 6167
Fax: +1 530 752 2640
jfthompson@ucdavis.edu