

Dr. K.H. Sarananda

Senior Lecturer

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Professional Biography:

Dr. K.H. Sarananda graduated with BSc. (Agric.), Second Class Honors in 1982. He worked as a Temporary Assistant Lecturer, in Faculty of Agriculture, University of Peradeniya until August 1983. Then he joined the Department of Agriculture as a Research Officer and served at Vanathavillu Agricultural Research Station at Puttlam. He was awarded a scholarship to pursue MSc. (Horticulture) from University of the Philippines at Los Banos, in the Republic of Philippines. He returned back in 1990 and served as a Research Officer, Horticulture Division, in the Department of Agriculture and worked up to 1993. He was awarded a scholarship to pursue PhD in Postharvest Technology at Wye College, University of London, Great Britain. He was awarded PhD in 1995 and returned back to the country and joined as a Research Officer at Horticultural Crop Research and Development Institute, Gannoruwa. He then joined the Food Research Unit, Gannoruwa in 1996 and served as a research Officer until 2004. Then he became

the Head of the Unit and served up to August 2016 until retirement. He then joined the Wayamba University of Sri Lanka Makandura as a Senior Lecturer,

Research Interests:

- Postharvest Technology of fruits and vegetables
- Food Science and Technology
- Food Processing and Preservation Technologies

Civil status: Married.

Educational qualifications:

Degree	Year	University
BSc (Agric)	1982	University of Peradeniya, Sri Lanka.
MSc (Hort)	1990	University of the Philippines at Los Banos. The Philippines.

(Plant growth, Postharvest technology, Crop physiology, Intermediary metabolism I, Postharvest technology (Lab), Food biochemistry, Intermediary metabolism II, Plant growth regulators, Postharvest biochemistry, Postharvest physiology and Experimental designs and thesis research on Green soft disorder of Cavendish bananas during simulated transport).

PhD	1995	Wye College, University of London, UK
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(Thesis: Extension of Postharvest Longevity of Bananas During Simulated Sea-shipment)

Employment experiences:

1. Temporary Assistant lecturer, Faculty of Agriculture, University of Peradeniya, 1982.
2. Research Officer, Department of Agriculture, for 33 years.

Work experiences:

- Design of postharvest research, required for minimizing postharvest loss of fruits and vegetables in Sri Lanka.
- Design and conducting research, enabling to solve the postharvest problems of growers and traders.
- Technology transfer.

Other qualifications:

- Working as a visiting lecturer at PGIA, PGIS in University of Peradeniya.
- Executive committee member in ASDA 2001'
- Executive committee member in ASDA 2005'
- Committee member of National Committee on Postharvest Technology, CARP, Colombo.
- Member of advisory board of Technical College, Kandy.
- Member of Curriculum development committee of Food Science for Technical Colleges.
- Member of research advisory committee, IPHT Anuradhapura.
- Chairman of Cathi Rich Food Processing memorial centre, Embililipitiya.
- Board member of Food Science and Technology, Post-Graduate Institute of Agriculture, University of Peradeniya.
- Consultant Food Technologist for Arthacharya Foundation, Rathmalana for a period of three years.
- Worked as the Head of the Food Research Unit, Gannoruwa, Department of Agriculture for 12 years.

Publications:

1. Sarananda, K.H. (1989). Response of 'Embul' bananas to modified atmosphere storage. *Tropical Agriculturist*, 145: 104 - 113.
2. Sarananda, K.H. (1990). Green-soft disorder during simulated transport of Cavendish bananas.
3. Thesis submitted for MSc (Horticulture) at University of the Philippines at Los Banos, The Philippines.
4. Sarananda, K.H. (1990). Effect of calcium carbide on ripening of 'Embul' bananas. *Tropical a. Agriculturist*, 146: 27 - 35.
5. Sarananda, K.H. (1993). Effect of some postharvest handling practices on stem- end rot of avocado caused by *Diplodia natalensis*. KRUSHI, A Technical Bulletin for researchers, Extension workers and Trainers in Agriculture, 13: 21.
6. Sarananda, K.H., Wainwright, H. Swinburne, T.N. and Wilson Wijerathnam, R.S. (1993). Modified atmosphere storage of embul bananas at chilling temperatures. In postharvest handling of tropical fruits, proceedings of an international conference held at Chang Mai, Thailand, 19 - 23 July 1993 419-421.
7. Wilson Wijerathnam, R.S.; Jayathilake, S.; Sarananda Hewage, S.K.; Paranerupasingham, S.
8. and Peris, C.N. Determination of maturity indices for Sri Lankan Embul bananas. In postharvest handling of tropical fruits. Proceedings of an international conference held at Chang Mai, Thailand, 19 -23 July 1993, 338 - 340.
9. Sarananda, K.H. (1994). Use of calcium carbide to induce ripening in bananas. KRUSHI, A Technical Bulletin for Researchers, Extension workers and Trainers in Agriculture, 14(1):29-30.
10. Sarananda, K.H. and R.S.W. Wijerathnam, (1994). Controlled atmosphere storage of 'Embul' bananas. *Tropical Agricultural Research* 6: 17-22.
11. Hewage, K.S., Wainwright, H. and Luo, Y. (1995). Effect of ethanol and acetaldehyde on banana ripening. *J. Horticultural Science* 70, 51 - 55.
12. Sarananda Hewage, K., Wainwright, H., Wijertnam, R.S.W. and Swinburne, T.R. (1995). The modified atmosphere storage of bananas as affected by different temperatures.

Postharvest Physiology, Pathology and Technologies for Horticultural Commodities: Recent Advances, 172-176.

13. Hewage, K.S., Wainwright, H and Wijeratnam, R.S.W. (1996). Quantitative assessment of chilling injury in banana using a colorimeter. *J. Hort. Sci.* 71: 135-139.
14. Hewage, K.S. (1996). Factors influencing post-harvest longevity of Embul bananas. PhD thesis submitted to University of London.
15. Sarananda, K.H., Wainwright, H. and Wilson Wijeratnam, R. (1996). Inhibition of ethylene biosynthesis in modified atmosphere stored bananas. *Tropical Agricultural Research* Vol. 8 306-314.
16. Sarananda, K.H. and R.S.W. Wijeratnam, (1996). Changes in susceptibility to crown rot during maturation Embul bananas and effect of oxygen and carbon dioxide on extent of the rot. SLASS abstract 1996.
17. Sarananda, K.H. (1997). Calcium carbide for mango ripening. AGTEC in brief, Technical information bulletin, Vol.2 No4.
18. Sarananda, K.H. (1997). Reducing postharvest losses in okra. AGTEC in brief, Technical information bulletin, Vol.2 No.7.
19. Sarananda, K.H. and R. Amarakoon, (1998). Methods to minimize postharvest rots of mango. *KRUSHI* 16(4): 1-5.
20. Sarananda, K.H. and R. Amarakoon. (1999). Methods to minimize postharvest rot of three local cultivars of mango. Annual Symposium of the Department of Agriculture, 21-22 September 1999.
21. Amarakon, R, K.H. Sarananda and D.C.K. Illeperuma (1999). Quality of mangoes as affected by stage of maturity. *Tropical Agricultural Research* 11: 74-85.
22. Amarakoon, R. D.C.K. Illeperuma and K.H. Sarananda (1999). Effect of calcium carbide treatment on ripening and quality of vellaicolomban and Willard mangoes. *Tropical Agricultural Research* 11: 54-60.
23. Sarananda, K.H. (1999). Artificially ripening fruits: methods. *KRUSHI* (18): No 1-2, 22-25.
24. Illeperuma, D.C.K., P.T. Galappatty and K.H. Sarananda (2000). Modified atmosphere storage of Kolikuttu bananas at low temperature. *J. Horticultural science and Biotechnology* 75(1): 92-96.

25. Sarananda, K.H., W.P. Hettiarachchi, S.J.V.M.L. Samarakoon and J. Eeswara (2000). Use of Ethrel to induce ripening process of bananas. Annual symposium of the Department of Agriculture, 21-22 September 2000.
26. Sarananda, K.H. (2000). Appropriate postharvest technologies for horticultural crops in Sri Lanka. Report of the APO seminar on Appropriate Postharvest technologies for horticultural crops held in Bangkok from 5-9 July 1999.
27. Sarananda, K.H., Wijetunga, S.A. and Wijesundara, A. (2001). Best quality mature jak fruits for super markets. KRUSHI 20: No 1-2, 9- 4.
28. Jayasooriya, J.M.K.M. and Sarananda, K.H. (2002). Study on stem end rot of avocado (*Persea Americana*) caused by *Botryodiplodia theobromae* and its control measures. Proceedings of Agricultural Research Symposium held on 4 June 2002, Wayamba University of Sri Lanka.
29. Wijesinghe, W.A.J.P. and Sarananda, K.H. (2002). Postharvest quality of 'Mauritius' pineapple and reasons for reduce quality. Accepted for Tropical Agriculture Research and Extension 5(1 & 2):53-56.
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31. Sarananda, K.H., Silva, K.I.P. and Wijesinghe, D.G.N.G. (2003). Development of suitable technology and package for marketing of minimally processed Mukunuwenna (*Alternanthera sessilis*). Annals of the Sri Lanka Department of Agriculture, 5: 207-218.
32. Sarananda, K.H. (2003). Impact of soil nutrients and defence elicitors on disease resistance in banana. Paper presented in Management of postharvest diseases of subtropical and tropical fruits using their natural resistance mechanism. ACIAR workshop, Brisbane, February 10-14.
33. Sarananda, K.H. and Sujatha Kumari, (2003). Postharvest disease control of Karuthacolomban mango through improved postharvest handling practices. Paper presented on symposium on "Technology for environment protected sustainable agriculture" on 19-21 November 2003.
34. Kumari, I.S. Saranada, K.H. and Jayarathna, D.L. (2003). An approach to control stem end rot of "Karuthacolomban" mango. Annual Research Symposium, University of Kelaniya p-81.

35. Sarananda, K.H., Wijesinghe, W.A.J.P., Dulani, H.N. and Peiris, C.N. (2004). Effect of hot ethral dip treatment for improving peel colour development and reducing stem end rot of karuthacolomban mango. *Annals of the Sri Lanka Department of Agriculture* 6:187-194.
36. Sarananda, K.H. Balasuriya, S.T. and Ganeshalingam, K. (2004). Quality of papaya variety 'Ratna' as affected by postharvest handling. *Tropical Agricultural Research and Extension* 7, 72-78.
37. Sarananda, K.H., U.N.G.C. Kumari, Eeswara, J.P. and Rathnayaka, R.M.N.D. (2004). Artificial ripening reduces postharvest losses of avocado. *Tropical Agricultural Research and Extension*. 7: 144-149.
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43. Pushpakumari, M.W.N., Sarananda, K.H. and Nayananjalee, W.A.D. (2008). Development of natural mango flavoured drinking yoghurt. Abstract of final year research, Faculty of agriculture, university of Rajarata.
44. Wijesinghe, W.A.P and K.H. Sarananda (2008). Utilization of cassava through freezing. *Journal of Food and Agriculture*. 1: 17-29.
45. Sarananda, K.H. (2008). Pre-harvest calcium spray in incidence of internal browning in pineapple cv. Mauritius during cold storage. *Agri east*. 7:1-8.

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48. Abeywickrama, K. (2009). Post harvest concepts and research trends. (ed.) Sarananda, K.H. Godage publishers.
49. Abeywickrama, K, C. Wijerathna, H. Herath., and K.H. Sarananda (2009). An integrated
50. treatment of basil oil (*Ocimum basilicum*) and alum with modified atmosphere to control crown rot disease in Embul banana. *Tropical Agricultural Research and Extension* 12(1) 23-30.
51. Pratheepa, S., K.M. Somawathie², K.H. Sarananda³ and T. Madhujith (2011). Antioxidant Activity of Different Varieties of Bitter Gourds (*Momordica* spp. Cultivated in Sri Lanka. Proceedings of the University of Peradeniya research sessions. P 42.
52. Rathnayaka, R.M.E.S., C.K. Beneragama and K.H. Sarananda. (2011). Effect of 1-methylcyclopropene-1-carboxylic acid on ripening related changes in dessert type banana cultivar 'Kolikuttu'. Proceedings of the university of Peradeniya research sessions. P 43
53. Perera, M.P.M.S.H., R. Sivakanesan, D.T.D.J. Abeysekera and K.H. Sarananda. (2013). Sensory evaluation, proximate analysis and available carbohydrate content of soy flour in cooperated cereal based traditional Sri Lankan Breakfast foods. *International Journal of Research in agriculture and food sciences*. 1 (4): 10 – 19
54. C. N. Hitigedara, K.H. Sarananda and A.J.M.B. Adikari. Development of cheese whey based drinking yoghurt incorporated with pineapple. Paper presented in undergraduate research symposium proceedings 31st July 2013. Faculty of Agriculture, Rajarata University of Sri Lanka.
55. Hewapathirana, H.D.P.T., K.H. Sarananda and A.M.J.B. Adikari. (2013). Development of fiber and iron enriched stirred yoghurt by using finger millet. Paper presented in undergraduate research symposium proceedings 31st July 2013. Faculty of Agriculture, Rajarata University of Sri Lanka.

56. Sarananda, K.H. (2014). Production and postharvest management of cabbage in Sri Lanka. Paper presented in workshop on Postharvest Management of Horticultural Crops in Asia. March 11th-15th, 2014. Vientiane, Lao PDR. (143-160).
57. H.D.G.S.N. Weerasinghe, K.H. Sarananda and A.M.J.B. Adikari (2014). Development of extruded flakes using finger millet, soy bean and rice. Proceedings of 6th Annual Research Symposium, Faculty of Agriculture, Rajarata University of Sri Lanka 2nd July 2014.
58. W.M.D.K. Bandara, K.H. Sarananda, N.W.I.A. Jayawardana and W.A.D. Nayananjalee 2014. Finger millet (*Eleusine coracana*) based malted milk. Proceedings of 6th Annual Research Symposium, Faculty of Agriculture, Rajarata University of Sri Lanka, 2nd July 2014.
59. Karunaratne, A.M., K.H. Sarananda and P.H.P. Prasanna. (2014). Production of soybean sprouts and their utilization. Proceedings of 6th Annual Research Symposium, Faculty of Agriculture, Rajarata University of Sri Lanka 2nd July 2014.
60. Wijesiri, V.T., C.K. Illeperuma and K.H. Sarananda (2014). Development of rice noodles by incorporating *Moringa Oleifera* (drumstick) leaves for calcium enrichment. Peradeniya University Research Sessions 2014.
61. Sarananda, K.H. (2014). Linking biodiversity to supply chain through food processing. Paper presented in International Symposium on Biodiversity, Food and Nutrition, 8th December 2014, The Kingsbury Hotel, Colombo, Sri Lanka.
62. Wijesinghe, J.A.C.C., I. Wickramasinghe and K.H. Sarananda. (2014). Granular morphological composition of Kithul (*Caryota urens*) flour obtained from five different growing areas in Sri Lanka. ICMA proceedings, International Conference on Multidisciplinary Approaches held on 13th to 14th August 2014, Faculty of Graduate Studies, University of Sri Jayawardenapura.
63. Perera, M.P.M.S.H., R. Sivakanesan, D.T.D.J. Abeysekera and K.H. Sarananda. (2015). Effect of processing method on physical and sensory characteristics of soy (*Glycine Max*) milk. Proceedings of the Peradeniya International Research Sessions, 19:5th and 6th November 2015.
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65. Wijesinghe, J.A.A.C, I. Wickramasinghe and K.H. Sarananda (2015). Physico-chemical properties of flour from tapped and untapped Kithul (*Caryota urens*) trees in Kandy, Sri Lanka. *Life Sciences, International Research Journal* 2: 1:105-113.
66. Perera, M.P.M.S.H., R. Sivakanesan, D.T.D.J. Abeysekera and K.H. Sarananda (2014). Effect of vegetables mixed curry on Glycemic Index and Glycemic Load of soy flour incorporated traditional Sri Lankan breakfast foods in healthy adults. *Pakistan Journal of Nutrition* 13(11):616-621.
67. Perera, M.P.M.S.H., R. Sivakanesan, D.T.D.J. Abeysekera and K.H. Sarananda (2012). Sensory evaluation of traditional breakfast food substituted with soy flour and red rice flour. *Peradeniya University Research Sessions, Sri Lanka* 17: 137-138.
68. Nisansala, Y.M.C., L.K.R.R. Jayakody, K.H. Sarananda and S. Somarathne (2015). Effect of pre-harvest potassium treatment on stem end rot disease development of mango (*Mangifera indica* L.) cv. TomEJC during fruit ripening. *Sabaragamuwa University Journal* 14 (2) 119-132.
69. Weerasooriya, W.M.N.L., A.M.M.U. Adikari and K.H. Sarananda (2016). Development of ready-to-cook composite vegetable leather using locally available vegetables. Paper presented at Undergraduate Research Symposium 2016, September 28, Faculty of Fisheries and Nutrition, Wayamba University of Sri Lanka.
70. Sarananda, K.H. 2012. Effect of Urea application as a top dressing on development of Black Heart Disorder of Mauritius Pineapple (*Ananas comosus* L.) during cold storage. *Journal of Food and Agriculture* 05, (No I and II): 39-45.
71. Senarathne, S.M.A.C.U., D.K. Wijerathne, K.W.P.D. Karandawala and K.H. Sarananda (2016). Determination of effect of cooking on total polyphenol content, Ascorbic acid content and Antioxidant activity of five common green leafy vegetables and curry leaves in Sri Lanka. *Tropical Agriculturist* 164: 109-120.
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Agricultural Research Symposium held on 9th – 10th November 2017, Wayamba University of Sri Lanka. PP306-310.

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87. Haleema, M.H. K.H. Sarananda and S.M.A.C.U. Senarathne (2018). Effect of steam blanching on quality of dehydrated papaya (*Caruca papaya L.*). 17th Agricultural Research Symposium held on 28th – 29th November 2018, Wayamba University of Sri Lanka. PP 275-279
88. Medagoda, M.H.M.D.M.L., K.H. Sarananda and S.M.A.C.U. Senarathne (2018). Effect of microwave heat treatment on sterilization of low-sugar mixed ready-to-serve drink. 17th Agricultural Research Symposium held on 28th – 29th November 2018, Wayamba University of Sri Lanka. PP 300-304.