

### **Buddhi Marambe**

B.Sc. Agric (Peradeniya, Sri Lanka), M.Agr., D.Agri. (Hiroshima, Japan)

bmarambe@pdn.ac.lk, bmarambe@yahoo.com

#### **Professor**

Department of Crop Science, Faculty of Agriculture University of Peradeniya, Sri Lanka.

Contact Tel: Office +94-812-395100

Home +94-812-387260, +94-777-900948 (Mobile)

Fax: **+94-812-395110** 

Web <a href="http://agri.pdn.ac.lk/crsc/staff\_profile?xqrt=91">http://agri.pdn.ac.lk/crsc/staff\_profile?xqrt=91</a>

Date of birth: 29<sup>th</sup> March, 1962

Civil status: Married

Primary and Secondary Education: Ananda College, Colombo, Sri Lanka

Undergraduate Education:

University: University of Peradeniya, Sri Lanka

Period of study: 1981 - 1985

Degree obtained: B.Sc. Agriculture (Second Class Upper Division Honours)

Post-graduate Education:

University: Hiroshima University, Japan

Period of Study: 1988 - 1993

Degrees Obtained: M.Agr. and D.Agr. (Major Field: Plant Environmental Sciences)

## Research and Training Interests:

- (1) Climate Change, Agriculture and Food Security since 2002
- (2) Invasive Alien Species and Biodiversity in Ecosystems since 1993
- (3) Weed biology and Management in Crop Production Systems since 1993

# Academic Positions held at University of Peradeniya:

- (1) Senior Professor (Since 10 April 2011)
- (2) Professor (Since 10<sup>th</sup> April 2003)
- (3) Senior Lecturer (24th Sept. 1993 9th April 2003)
- (4) Lecturer in Crop Science (from 31<sup>st</sup> Oct. 1986 to 22<sup>nd</sup> Sept. 1993)

# Administrative Positions held at University of Peradeniya:

- (1) Director, Operations Technical Secretariat (OTS), University of Peradeniya (from April, 2018 to May 2021)
- (2) Chairman, Board of Study in Crop Science, Postgraduate Institute of Agriculture, University of Peradeniya (16 Jan 2016 15 Jan 2019)
- (3) Director, Agriculture Education Unit, University of Peradeniya (1 Oct 2009 15 Jan 2016)
- (4) Dean, Faculty of Agriculture (22 Aug 2003 to 21 Aug 2009)
- (5) Head, Department of Crop Science (5 Jan 2001 21 Aug 2003)
- (6) Lecturer in Charge, University Experimental Station (1 Jun 1994 31 May 1997)

# (a) Member of the Governing Councils

- (1) Member of the Governing Council of University of Peradeniya (2003-2006) as the Dean of the Faculty of Agriculture, University of Peradeniya
- (2) Member of the Governing Council of University of Peradeniya (2012-2015) as a representative of the Senate of the University of Peradeniya
- (3) Member of the Governing Council of the Rajarata University of Sri Lanka (2015-2018) as an External member appointed by the University Grants Commission

# (b) Member of Government Delegation

- (1) **Member** of the Sri Lankan Government Delegation in Climate Negotiations at the Conference of Parties (COP), Subsidiary Body for Scientific and Technological Advise (SBSTA) and Subsidiary body for Implementation (SBI) under UNFCCC (since 2013)
- (2) Member of the Sri Lankan Government Delegation to the Expert Workshop on Invasive Alien Species in Preparation for the twenty-second meeting of the Subsidiary Body on Scientific, Technical and Technological Advice (SBSTTA), of the Convention on Biological Diversity. 5-7 December, 2017
- (3) **Member** of the Sri Lanka Government Delegation to the 19<sup>th</sup> Meeting of the Partnership Assembly (PA19) of the World Bank held in Buenos Aires, Argentina from 22-25 October 2018

# (c) Preparation of National Policies

- (1) Team Leader, Technical Expertise Group to update the National Climate Change Policy of 2012 – Appointed by Janathakshan Gte. Ltd on behalf of the UNDP and the Ministry of Environment, Sri Lanka
- (2) **Member** of the Experts committee to development of the National Agriculture Policy (sectoral policy on food and feed crops) appointed by the Secretary to the Ministry of Agriculture in December 2020)
- (3) **National Expert** to develop an Overarching Agriculture Policy for Sri Lanka (an activity performed by the Department of National Planning of Sri Lanka (with the support from the European Union appointed in October 2018)
- (4) **Team Leader** of the Technical Expertise Group to develop the National Climate Change Policy— appointed by the Ministry of Environment and Renewable Energy, Sri Lanka 2011. National Policy was implemented in January 2012
- (5) **Chairman,** Steering Committee to prepare the National Agricultural Research Policy (appointed by the Sri Lanka Council for Agricultural Research Policy SLCARP; 2010): National policy was effective for the period 2012-2016.
- (6) **Member** of the Experts Group to prepare the National Policy on Control of Invasive Alien Species appointed by the Ministry of Environment and Renewable Energy, Sri Lanka 2012. The National policy was launched on 5<sup>th</sup> June 2016

# (d) Major consultancies undertaken

(1) Lead National Consultant (Climate Change) – for Janathakshan Gte, Sri Lanka and the UNDP to "Revise and Update the National Climate Change Policy of 2012 of Sri Lanka" from 10 November 2021 to 10 September 2022.

- (2) **Member** of the experts committee to develop NDC Implementation Plan Appointed by the ISL on behalf of the UNDP and the Ministry of Environment (2022)
- (3) National Consultant (Agriculture and Food Systems Specialist) for the FAO of the United Nations for the project on Building Climate Resilient City Region Food Systems Colombo (appointed by the Food and Agriculture Organization of the United Nations): September 2020 31 December FASRL 3081410
- (4) National Consultant (Agriculture, Natural Resources, Environment and Rural Development ANRERD) to the Asian Development Bank. Contract No. 170011; (July-December 2021)
- (5) **Consultant (Eco-System based Assessment)** to the UN-Environment (Contacted by UNEP No: 2500268540): July-October 2021
- (6) National Consultant (Eco-system based Assessment) for the GCF-NDA Readiness Project and Support Program for Sri Lanka (appointed by the World Agroforestry Center ICRAF; Contract No: 13013301; (November 2019 to June 2021)
- (7) **Senior Scientist/Team Leader** for Development of national Food Safety Policy Framework (contracted by FAO; TCP/RAS/3620)
- (8) **National Consultant** "STE for Developing Overarching Agriculture Policy" for the Technical Assistant for Modernization of the Agriculture project (TAMAP) EuropeAid/138-539/DH/SER/LK, ref. no. NL2410-32723 (Contract No: ACA/2017/389-911)
- (9) **Consultant** for the Agriculture Modernization Project of the World Bank Project (contracted by the World Bank, Sri Lanka 2015-2016)
- (10) **Consultant** for Preparation of Project Proposal for the Department of Agriculture on Addressing the Adverse Impacts of Drought Risk in Sri Lanka (contracted by the United Nations Development Programme, Sri Lanka 2015-2016)
- (11) **Consultant** Decision and Policy Analysis Research Area of the International Centre for Tropical Agriculture (contracted by CIAT, 2015)
- (12) Consultant on Policy and Training for UNDP/GEF funding —"Strengthening Capacity to Control the Introduction and Spread of Invasive Alien Species in Sri Lanka" (contracted by the Ministry of Environment and Natural Resources and UNDP-Sri Lanka; 2012-2013)
- (13) **Consultant and Team Leader** to develop the Country Status Report on Food Security (2009) Contracted by Plan Sri Lanka
- (14) **Consultant Agriculture Specialist,** to develop the Country Position Paper on SAARC Food Security Program (October 2007 March 2008) Contracted by FAO of the United Nations
- (15) **Consultant**, to develop case studies on the Special Program for Food Security in Asia: phase 1 Sri Lanka (August 2006 to February 2007) (GCSP/SRI/049/jpn) Contracted by FAO of the United Nations
- (16) **Consultant Agronomist** to the Special Program on Food Security (SPFS): Water Control Component, FAO of the United Nations (2000-2002). (PROJECT TCP/SRL/0168 (D) Contracted by FAO of the United Nations
- (17) **Consultant** in the Expert group to prepare the Status Report on Biological Diversity in Sri Lanka (April-June, 2001). http://www.biodiv.org/world/reports.asp?lg= o&t=all#s
- (18) **Consultant Agronomist** to the National Development Bank (NDB), Sri Lanka to study the Feasibility of Fully-mechanized Maize Farm Project at Kantale, Sri Lanka (2000 2 months full-time) Contracted by National Development Bank (NDB), Sri Lanka
- (19) **Consultant** in Curriculum Development to UNDP and DANIDA, Denmark in Organic Agriculture at the Postgraduate Institute of Agriculture, Sri Lanka (1998) (Sri Lanka 98SRL1200) Contracted by UNDP, Sri Lanka
- (20) **Consultant** to Evaluate New Rice Herbicides in Low-Land Rice Culture in Sri Lanka (1995 1996; 5 months) Contracted by BASF, Germany

(21) **Consultant** to carry out a Survey on the Use of Gramoxone in Sri Lanka (1995 – 5 months) – Contracted by Zeneca Agrochemicals, UK

# (e) Preparation of National/Country Reports

- (1) **Lead Author** of the publication of "National Status Report on Sustainable Nitrogen Management" completed in 2019 in line with the event on UN-Environment's resolution on Halving Nitrogen Waste by 2030
- (2) **Lead Author** of the National Profile Report on the Invasive Alien Species in Sri Lanka, prepared in 2003 and jointly published by the Government of USA, Royal Thai Government, and Biodiversity Centre of Thailand.
- (3) **Member** of the committee that prepared the National Strategy for Science, Technology and Innovation 2011-2015 (appointed by the Hon Minister of Science and Technology; 2010)
- (4) **Member** of the Five member review committee to carry out the "Review of Research and Development of the Department of Agriculture of Sri Lanka 2005-2009", a report submitted to the National Research Council in 2009
- (5) Editor of the National Plan 2008-2012 document developed of the Caring for the Environment Path to Sustainable Development" published by the Ministry of Environment and Natural Resources, Sri Lanka (184 pages)
- (6) Team leader to prepare the Chapter Report on "Impact on Biodiversity" in 2006, which was submitted to the Ministry of Environment and Natural Resources of Sri Lanka to develop the Addendum to the Biodiversity Conservation Action Plan in 2007

# (f) Preparation of Development Proposals Successful in Attracting Foreign Funding

- (1) **Team Leader:** Preparation of the Project Concept Document on Climate Change for the GEF V Funding Cycle **appointed by the Ministry of Environment (2013)**
- (2) Lead Scientist: FAO-TCP Project on "Spices and Allied Crops Development Plan for Sri Lanka" (TCP/SRL/3401) (appointed by the Food and Agriculture Organization of Sri Lanka 2013) -
- (3) Lead Scientist: FAO-TCP Project on "Management of Risks Associated with Pesticide Use in Agriculture in Sri Lanka'" (TCP/SRL/3402) (appointed by the Food and Agriculture Organization of Sri Lanka 2013)
- (4) Chairman: Task Force appointed for preparation of the country proposal for UNDP/GEF funding –"Strengthening Capacity to Control the Introduction and Spread of Invasive Alien Species in Sri Lanka" (contracted by the Ministry of Environment and Natural Resources and UNDP-Sri Lanka; 2009-2010)

## (g) Positions in National Committees

- (1) **Chairman** of the Agriculture Sector Committee of the Sri Lanka Standards Institution (SLSI) (appointed by the Sri Lanka Standards Institute SLSI; 2015 to-date)
- (2) **Member** of the Agriculture Sector Committee of the Sri Lanka Standards Institution (SLSI) (appointed by the Sri Lanka Standards Institute SLSI; 2013-2015)
- (3) **Chairman** of the National Experts Committee on Climate Change Adaptation (NECCCA) (appointed by the Ministry of Environment and Renewable Energy 2013-2020)
- (4) **Member** of the National Experts Committee on Climate Change Adaptation (NECCCA) (appointed by the Ministry of Environment and Renewable Energy 2013-2020)
- (5) **Chairman** of the National Invasive Species Specialist Group (NISSG) (appointed by the Ministry of Environment and Renewable Energy since 2014)

- (6) **Chairman,** National Plant Protection Committee (NPPC) (appointed by the Sri Lanka Council for Agricultural Research Policy SLCARP; 2005-2011)
- (7) **Member of** the Steering Committee of the Agriculture Modernization Project, Ministry of Agriculture (appointed by the Secretary to the Ministry of Agriculture, since 2017)
- (8) **Member,** National Plant Protection Committee (NPPC) (appointed by the Sri Lanka Council for Agricultural Research Policy SLCARP; since 2012)
- (9) Member of the Inter-Ministerial Steering Committee on Climate Change (appointed by the Ministry of Mahaweli Development and Environment; since 2014 as the Chairman of NECCCA)
- (10) **Member** of the Technical Committee of the Science Centre (Appointed by the Director of National Science Foundation, Sri Lanka; March 2011-April 2014)
- (11) **Member** of the National Biodiversity Experts Committee (*Appointed by the Secretary to the Ministry of Environment, Sri Lanka; 2011-2015*)
- (12) **Member** of the Standards Committee of the Agriculture Sector (appointed by the Sri Lanka Standards Institute SLSI; 2011)
- (13) **Member** Committee to prepare the National Strategy for Science, Technology and Innovation 2011-2015 (appointed by the Hon Minister of Science and Technology; 2010)
- (14) **Member** of the Review Committee of Research in the Department of Agriculture, Sri Lanka

   (appointed by the National Research Council of Sri Lanka on the directive of the Presidential Secretariat of the Government of Sri Lanka; 2009-2010)
- (15) Member of the Sector Policy and Training Advisory Council on Agriculture & Plantation Industry in Sri Lanka (appointed by the Tertiary and Vocational Education Commission of Sri Lanka, 2009-2011)
- (16) **Member** of the National Food Product Protection Committee. Ministry of Agriculture Development and Agrarian Services (*established by the approval of the Cabinet of Ministers of the Sri Lankan Government, 2007-2008)*
- (17) **Member** of the Advisory Committee to the Hon. Minister of Agricultural Development and Agrarian Services, Central Government of Sri Lanka. 2007-2010
- (18) **Member** of the Board of Governors of the Hector Kobbekaduwa Agrarian Research and Training Institute (*Appointed by the Secretary to the Ministry of Agriculture and Agrarian Development*; 2004-2010)
- (19) **Member** of the International Advisory Council (IAC), Ontario Agricultural College, University of Guelph, Canada 2006-2009.
- (20) **Member** of the Steering Committee on National Investment Plan for Biotechnology in Sri Lanka, funded by the FAO of the United Nations and CARP, Sri Lanka (2008-2009)
- (21) **Member** of the Steering Committee on Agricultural Technology Systems Review of Sri Lanka, conducted by the World Bank. (EW-P087891-ESW) 2007
- (22) **Member** of the Steering Committee, of the project on Establishment of the National Information Sharing System (NISM) on the Implementation of the Global Plan of Action got hr Conservation and Utilization of Plant Genetic Resources for Food and Agriculture in Sri Lanka (GCP/RAS/186/JPN)
- (23) **Member of the Steering Committee,** *In-situ* Conservation of Crop Wild Relatives through information management and field application in Sri Lanka. IPGRI, FAO and Department of Agriculture of Sri Lanka,
- (24) **Member of the Advisory Board** to the Horticulture Research and Development Institute (HORDI), Department of Agriculture, Sri Lanka (since 2007)
- (25) Member of the National Experts' Committee on Biological Diversity, appointed by the Secretary of the Ministry of Environment and Natural Resources in order to coordinate the activities related to Biological Diversity of Sri Lanka (2001-2010).

- (26) Member of the National Committee for Environmental Policy Management (CEPOM), Ministry of Forestry and Environment of Sri Lanka. (2000-2005). The committee has been appointed by the Secretary to the Ministry of Forestry and Environment in Sri Lanka in order to coordinate and facilitate the implementation of environment related policies in Sri Lanka.
- (27) Member of the Invasive Species Specialist Group (ISSG) of the Species Survival Commission of the World Conservation Union, Switzerland (since 2001). The ISSG is the largest working group in Species Survival Commission (SSC) of the IUCN and membership is only by invitation.
- (28) Member of the National Multipurpose Tree Species Research Committee (MPTS), Sri Lanka (since 1994). The committee comprised of researchers/academics/ practitioners from governmental/non-governmental organizations carrying our work related to multipurpose tree species.
- (29) **Member of the Roster of Experts on Biodiversity** (since 2000). Nomination made by the Government of Sri Lanka. http://www.biodiv.org/roster/experts.asp

# (h) Positions in Public Liability/Private Companies

- (1) Non-Executive Director of the CIC Holdings PLC, Colombo Sri Lanka (2009-2018)
- (2) **Non-Executive Director** of the Link Natural Products (Pvt) Ltd. (2015-2018)

# (i) Multi-country Research Projects

- (1) **Project Leader**: Building Climate Resilience in Farming Systems in Sloping Lands of South Asia A multi-country project funded by the Intergovernmental Panel on Global Change Research for the Asia Pacific Region (APN) 2015-2021 (Sri Lanka, Pakistan, Nepal and Bangladesh)
- (2) **Project Leader**: Vulnerability assessment of Home Gardens to Climate Change and its Impacts on Food Security A multi-country project funded by the Intergovernmental Panel on Global Change Research for the Asia Pacific Region (APN) 2009-2012 (Sri Lanka, India and Bangladesh)
- (3) **Project leader (Sri Lanka Component):** Improve Climate Forecasting to enhance Food Security in Indian Ocean Rim Countries (AusAID Agreement 59533). A project Concerning India and Sri Lanka conducted by the Commonwealth Scientific and Industrial Research Organization (CSIRO), Australia (2012-2016) (Sri Lanka, Australia and India)
- (4) **Project Collaborator:** Scientific Capacity Development to Strengthen Informed-Decision Making for Improved Climate Policy Formulation and Implementation in South Asian Countries A multi-country project funded by the Intergovernmental Panel on Global Change Research for the Asia Pacific Region (APN) 2015-2017 (Sri Lanka, Bangladesh, Nepal and Bhutan)
- (5) Project Collaborator: Improving the Robustness, Sustainability, Productivity and Eco-Efficiencies of Rice Systems throughout Asia - A multi-country project funded by the Intergovernmental Panel on Global Change Research for the Asia Pacific Region (APN) 2015-2017 (Australia, India, Indonesia, Japan, Pakistan, Sri Lanka)
- (6) Project Collaborator: Mainstreaming Weather and Climate Information Application for Agro-Ecosystem Resilience in a Changing Climate - A multi-country project funded by the Intergovernmental Panel on Global Change Research for the Asia Pacific Region (APN) 2015-2018 (Thailand, Philippines, Sri Lanka)

- (7) Project Collaborator: Improved weed management and crop establishment for rice cultivars capable of germinating in anaerobic conditions in direct seeded systems – with International Rice Research Institute (IRRI) 2015-2016
- (8) **Project Collaborator:** Evaluation of seeding rate, seedbed management and flooding on germination, weed control and yield of rice in anaerobic direct-seeded rice (DSR) with International Rice Research Institute (IRRI) 2015-2017

## APPOINTMENTS FOR INSTITUTIONAL DEVELOPMENT ACTIVITIES

- (1) **Director, Operational Technical Secretariat (OTS),** World Bank-funded "Accelerate Higher Education Development Expansion and. Development (AHEAD) Project", University of Peradeniya (**Appointed by the AHEAD Project; April 2018 May 2021**)
- (2) **Coordinator:** Task Force appointed for Preparation of proposal for funding from World Bank University Development Grants (UDG) for Higher Education for Twenty First Century (HETC) (appointed by University of Peradeniya; 2010-2011) Successful for Funding
- (3) Coordinator World Bank Project on "Improving Relevance and Quality of Undergraduate Education", Quality Enhancement Fund Faculty of Agriculture, University of Peradeniya (appointed by the Faculty of Agriculture from the second year of the project; 2006-2010)
- (4) Coordinator/Co-Coordinator Study Abroad Training Programs (Faculty of Agriculture)
  - 1. Study Abroad Training Program on Sustainable Tropical Agriculture Systems of Sri Lanka offered to University of California-Davis, USA (2010): **Coordinator**
  - 2. Study Abroad Training Program on Sustainable Tropical Agriculture Systems of Sri Lanka offered to University of Michigan State University (2012, 2013, 2014): **Co-Coordinator**
  - 3. Study Abroad Training Program on Organic Farming Systems of Sri Lanka offered to University of Natural Resources and Life Sciences (2015): **Co-Coordinator**

# POSITIONS IN INTERNATIONAL AND NATIONAL ORGANIZATIONS/ASSOCIATIONS

- (1) President of the Weed Science Society of Sri Lanka (WSSSL) (Since March 2018)
- (2) **President** of the Sri Lanka Organization for Agriculture Professionals (SLOAP; 2010-2011)
- (3) **President** of the Asian Pacific Weed Science Society (APWSS) 2005-2007
- (4) Vice-President of the Asian Pacific Weed Science Society (APWSS) 2003-2005.
- (5) Country Representative to the Asian Pacific Weed Science Society (APWSS; Since 2003).
- (6) **President** of the National Agriculture Society of Sri Lanka (1999)

# COORDINATION/TEAM LEADER OF NATIONAL DEVELOPMENT PROJECTS - PROJECTS THROUGH FOREIGN FUNDING

- (1) **Team Leader** UNDP/UNEP funded Project on Integrated Strategic Environmental Assessment (ISEA) for Northern Province of Sri Lanka (contracted by the Ministry of Environment of Sri Lanka and UNDP-Sri Lanka; 2010-2011)
- (2) **Team Leader** UNDP/UNEP funded Project on Integrated Strategic Environmental Assessment (ISEA) for Gampaha District of Sri Lanka (contracted by the Ministry of Environment of Sri Lanka and UNDP-Sri Lanka; 2013)

## **EDITORIAL WORK – REFEREED JOURNALS**

- (1) Marambe B (Editor-in-Chief): Sri Lanka Journal of Food and Agriculture. Published by the Sri Lanka Council for Agricultural Research Policy (SLCARP), Sri Lanka.
- (2) Marambe B (Member of the Editorial Board Since 2019): Journal of Agricultural Sciences Sri Lanka. Published by the Sabaragamuwa University of Sri Lanka
- (3) Marambe B (Member of the Editorial Board Since 2019): Ceylon Journal of Science. Published by University of Peradeniya
- (4) **Marambe B** (Member of the editorial board since 2018): Weeds. Published by the Asian Pacific Weed Science Society (APWSS), Australia
- (5) Marambe B (Member of the editorial board since 2014): Climate Change and Environmental Sustainability. Published by the Society for Science of Climate Change and sustainable Environment (SSCE), India
- (6) Marambe B (Member of the editorial Board) (2004 to 2011): Weed Management and Biology. Blackwell Publishing Asia Pvt Ltd.
- (7) **Marambe B** (Member of the Editorial Board) (since 2007): Tropical Agriculturist. An International Agriculture Journal of Sri Lanka. Department of Agriculture, Sri Lanka.
- (8) Marambe B (Member of the Editorial Board) (2007-2010). Sri Lankan Journal of Agricultural Sciences. Published by the National Agriculture Society of Sri Lanka.
- (9) Marambe B (Member of the Editorial Board) (2004, 2008, 2010, 2011): Annals of the Sri Lanka Department of Agriculture. Published by the Department of Agriculture, Sri Lanka.
- (10) Marambe B (Editor in Chief) (1998): Journal Tropical Agricultural Research, Vol. 10.

  Published by the Postgraduate Institute of Agriculture (PGIA), University of Peradeniya, Sri Lanka.
- (11) Marambe B (Member of the Editorial Board) (2003, 2005, 2006, 2007, 2008, 2009): Journal Tropical Agricultural Research. Published by the Postgraduate Institute of Agriculture, University of Peradeniya, Sri Lanka.

# **BOOKS AND EDITED BOOKS**

- (1) Amarasinghe R., **Marambe B.**, Suriyagoda L., Punyawardena R., Herath R., Jayawardena S., Jayakody P., Vuolo M.R., Fujisawa M., Heureux A., Alvar-Beltràn J., Kanamaru H., Acutis M., Crespo O. and Manzanas R. (2021): Climate Change Impacts of Crops in Sri Lanka. Food and Agriculture Organization (FAO) of the United Nations, Rome. DOI: https://doi.org/10.4060/cb5152en
- (2) Marambe B., Weerahewa J. and Dandeniya W.S (2020): Agricultural Research for Sustainable Food Systems in Sri Lanka. Springer Nature, Singapore. 394 pp. ISBN 978-981-15-2152-2 (DOI: https://doi.org/10.1007/978-981-15-2152-2)
- (3) Marambe B., Nissanka S.P. et al. (2019): Sri Lanka Status Report on Sustainable Nitrogen Management. 81 pp. Ministry of Mahaweli Development and Environment, Sri Lanka. ISBN 978-955-8395-40-0
- (4) Mallawatantti A., **Marambe B**. and Connor S. (2014): Integrated Strategic Environmental Assessment of the Northern Province of Sri Lanka. 135 pp. A Joint Publication of the Central Environment Authority and Disaster Management Center of Sri Lanka. ISBN 978-955-9012-55-9
- (5) Marambe B, Silva P, Wijesundara S and Atapattu N (Editors) (2010): Invasive Alien Species

   Strengthening Capacity to Control Introduction and Spread in Sri Lanka. Biodiversity
  Secretariat of the Ministry of Environment, Sri Lanka. 191 pp. (ISBN 978-955-0033-17-1)

- (6) Marambe B and Silva KAID (Editors) (2008): Caring for the Environment 2008-2012: Ministry of Environment and Natural Resources, Sri Lanka. 184 pp (ISBN 978-955-0033-11-9)
- (7) Marambe B, Pushpakumara DKNG, Silva P, Ratnayake HD and Widanage S (2006): Impacts on Biodiversity. An Addendum to the Biodiversity Conservation in Sri Lanka A Framework for Action. A Publication of the Biodiversity Secretariat, Ministry of Environment, Sri Lanka. 27 pp. ISBN 955-9120-44-1
- (8) Jayasinghe CK, Jayasekera S, **Marambe B** and Gunasena HPM (2006): Pesticide Residue Analysis Status in Sri Lanka. A Publication of the Council for Agricultural Research Policy, Sri Lanka. 14 pp. ISBN 955-9224-31-X
- (9) Gunasena HPM, Sangakkara UR, Thattil RO, Marambe B, Nissanka SP, and Hitinayake HMG (1999). Agroforestry Research in Sir Lanka: An annotated bibliography. A publication of the University of Peradeniya-Oxford Forestry Research Link. pp 198.
- (10) Gunasena HPM and Marambe B (1998): Neem in Sri Lanka: a monograph. A publication of the University of Peradeniya - Oxford Forestry Institute (K) Forestry Research Link, Print Pack Limited, Colombo. pp 62
- (11) Gunasena HPM, Pushpakumara DKNG, **Marambe B**, Nissanka SP and Wickramasinghe IP (Editors) (1998). Multipurpose Tree Species in Sri Lanka: Fuelwood Energy and Gender Issues. Bravi Press, Kandy, Sri Lanka. pp. 178.
- (12) **Marambe B**, Sangakkara UR and Haq KA (Editor) (1996): Crop Diversification Strategies for Minor Irrigation Schemes. *IRMU & IIMI*, 20 February, Colombo. pp 78.
- (13) Goonasekera KGA and **Marambe B** (Editors) (1995): Integrated Land and Water Resource Management in a Watershed Context. Occasional Publ. No.1 of AAFAUP, pp 32.

# **EDITORIAL WORK – CONFERENCE PROCEEDINGS**

- (1) Marambe B. (2017): Proceedings of the workshop on Present Status of Research Activities on Climate Change Adaptations. 6 November. pp 151. Sri Lanka Council for Agricultural Research Policy (SLCARP).
- (2) Marambe B, Wickremasinghe S, Wickremasinghe S, Wijayagunawardena M, Liyanage K, Dissanayake R and Gunawardhana N (2016): Book of Abstracts. Conference on Sri Lanka Japan Collaborative Research 19-21 August. pp 46. University of Peradeniya, Sri Lanka
- (3) Marambe B, Liyanage K, Gunawardhana N, Wijayagunawardana M, Wickremasinghe S, Munasinghe M and Dissanayake R (editors) (2015): Book of Abstracts. Conference on Sri Lanka – Japan Collaborative Research 18-20 September. pp 44. University of Peradeniya, Sri Lanka
- (4) Marambe B, Aberatne F, Amarasinghe U, Silva GLLP, Alwis PLAG, Chandrasiri AND, Rajapaksha RMCP, Abeysiriwardena S, Hewajulige IGN, Wijesundera DSA, Prematilake KG and Niranjan F (2014): Book of Abstracts. SLCARP International Agricultural Research Symposium. 11-12 August, Sri Lanka Council for Agricultural Research Policy, Colombo, Sri Lanka. 134 pp.
- (5) Liyanage K, **Marambe B**, Wijayagunawardne M, Yapa RD, Jinadasa S and Wickramasinghe S (Editors) (2013): Book of Abstracts. Conference on Sri Lanka Japan Collaborative Research 29-31 March. pp 150. University of Peradeniya, Sri Lanka
- (6) Nugaliyadda L, Marambe B, Ratnasekara D, Silva P, Nanayakkara C, Rajapaksha R and Deshmukh A (Editors) (2012): Book of Abstracts. Sri Lanka – India Conference on Agro- Biotechnology for Sustainable Development. pp 158. Agriculture Education Unit (AEU), Faculty of Agriculture, University of Peradeniya, Sri Lanka

- (7) Marambe B (Editor) (2013): Proceedings of the Annual Symposium on Minor Export Crops on "Spices for Health and Wellness". Department of Export Agriculture, Sri Lanka, 258 pp.
- (8) Marambe B (Editor) (2012): Proceedings of the Annual Symposium on Minor Export Crops on "Creation of National Wealth through Minor Export Crops". Department of Export Agriculture, Sri Lanka, 185 pp.
- (9) Nissanka SP, Marambe B and Silva P (Editors) (2011): Proceedings of the National Convention on Organic Farming – "Ensuring Safe, Healthy and Nutritional Food for Future". University of Peradeniya, Sri Lanka. 36 pp.
- (10) Marambe B and Wijesekara A (Editors) (2010): Conservation and Utilization of Crop Wild Relatives of Sri Lanka. Department of Agriculture and Ministry of Environment and Natural Resources of Sri Lanka. 34 pp.
- (11) Marambe B (Editor) (2007): Proceedings of the 21<sup>st</sup> Asian Pacific Weed Science Society (APWSS) Conference Plenary Papers, 2-6 October, Colombo, Sri Lanka. pp 33. Joint Publication of the APWSS, University of Peradeniya, Sri Lanka and Chemical Industries (Colombo) Ltd., Sri Lanka
- (12) **Marambe B**, Sangakkara UR, De Costa WAJM and Abeysekara ASK (editors) (2007): Proceedings of the 21<sup>st</sup> Asian Pacific Weed Science Society (APWSS) Conference, 2-6 October, Colombo, Sri Lanka. pp 706. A Joint Publication of the APWSS, University of Peradeniya, Sri Lanka and Chemical Industries (Colombo) Ltd., Sri Lanka.
- (13) Marambe B (Editor) (2000): Proceedings of a Symposium on "Alien Invasive Species in Sri Lanka: Impact on Ecosystems and Management'. A Joint Publication of the Ministry of Forestry and Environment and the National Agricultural Society of Sri Lanka. + 63 pp.
- (14) **Marambe B** (Editor) (1999): Proceedings of the First National Workshop on the Alien invasive Species in Sri Lanka. Ministry of Forestry and Environment, Sri Lanka. 73 pp.
- (15) **Marambe B** (ed) (1995): Proceedings of Third Annual Staff Research Sessions, Faculty of Agriculture, University of Peradeniya, 64 pp.

# **COMPILATION WORK**

- (1) Marambe B, Jayasekera S, Samarasinghe JD and Wimal Kumara P (2011): National Priorities in Plant Protection Research – Strategic Approach 2011-2013. A Publication of the National Plant Protection Committee, Sri Lanka Council for Agricultural Research Policy. 38 pp.
- (2) Jayasekera S, Marambe B and Jayasinghe C (2008): National Directory on Scientific Personnel in Plant Protection Research and Development. A Publication of the National Plant Protection Committee, Sri Lanka Council for Agricultural Research Policy. 15 pp.

# **BOOK CHAPTERS**

- (1) Marambe B., Weerahewa J., Disna A.P.P. (2020): Planning and Strategic Policy Interventions for Building a Globally Competitive Cinnamon Industry in Sri Lanka. In: Cinnamon (Eds. R. Senaratne and R. Pathirana) Springer, Cham. https://doi.org/10.1007/978-3-030-54426-3\_17
- (2) Dissanayake D.S.M.B. and **Marambe B.** (2020): Legume-based Cropping Systems to Sustain Nutrient Efficiency of Farming Systems in a Changing Climate. In: Adapting to Climate Change: A Sri Lankan Perspective. pp 100-116. Institute of Biology, Sri Lanka.

- (3) Weerahewa J., Dandeniya W.S. and **Marambe B.** (2020): Food Systems in Sri Lanka: Components, Evolution, Challenges and Opportunities. In: Agricultural Research for Sustainable Food Systems in Sri Lanka (Eds. B. Marambe, J. Weerahewa and W.S. Dandeniya) pp 1-11. Springer Nature, Singapore. (DOI: https://doi.org/10.1007/978-981-15-2152-2\_1).
- (4) Marambe B., Jayawardena S.S.B.D.G., weerakoon W.M.W. and Wijewardena H. (2020): Input intensification in food crops production and food security. In: Agricultural Research for Sustainable Food Systems in Sri Lanka (Eds. B. Marambe, J. Weerahewa and W.S. Dandeniya) pp 215-248. Springer Nature, Singapore. (DOI: https://doi.org/10.1007/978-981-15-2152-2\_10).
- (5) Marambe B., Dandeniya W.S. and Weerahewa J. (2020): Agricultural Research for Sustainable Food Systems: Recommendations with Special Reference to Sri Lanka. In: Agricultural Research for Sustainable Food Systems in Sri Lanka (Eds. B. Marambe, J. Weerahewa and W.S. Dandeniya) pp 215-248. Springer Nature, Singapore. (DOI: https://doi.org/10.1007/978-981-15-2152-2\_17).
- (6) Marambe B., Silva P and Athauda S (2017): Agriculture and Rural Development under Central Government and Provincial Council Setup in Sri Lanka. In: Decentralization and Development of Sri Lanka within a Unitary State. (Eds: N.S. Cooray and S. Abeyratne) pp 111-145. Springer-Nature Singapore
- (7) Rao A.N., Wani S.P., Ahmed S., Ali H.H. and **Marambe B** (2017): An overview of weeds and weed management in rice in South Asia. In: Weed management in rice in the Asian-Pacific region (Eds: A.N. Rao and H. Matsumoto), pp.247-281. Asian Pacific Weed Science Society, The Weed Science Society of Japan and Indian Society of Weed Science
- (8) Marambe B and Silva P. (2016): Impact of climate change on biodiversity: A challenge to agro-ecosystems in South Asia. In: The Challenges of Agro-Environmental Research in Monsoon Asia (Eds: K Yagi and C. George Kuo) pp.135-148. National Institute for Agro-Environmental Sciences (NIAES) Tsukuba, Japan Food and Fertilizer Technology Center (FFTC) for the Asian and Pacific Region Taipei, Taiwan
- (9) Marambe B (2016): Path to achieve food security: South Asian experience with special reference to Sri Lanka. <u>In</u>: Human Capital, Agriculture, Trade and Globalization Pathways to Achieve Economic Development in Asia (Eds: P Ratnayake and S. De Silva). pp 217-242. The Economic Association of the Saga University, Japan. (ISBN 978-4-908682-00-1)
- (10) Pushpakumara D.K.N.G., Heenkenda H.M.S., **Marambe B.**, Ranil R.H.G., Punyawardena B.V.R., Weerahewa J., Silva G.L.L.P., Hunter D. and Rizvi J. (2016): Kandyan home gardens: a time-tested good practice from Sri Lanka for conserving tropical fruit tree diversity. <u>In</u>: Tropical Fruit tree Diversity: Good Practices for *In Situ* and On-Farm Conservation (Eds. B. Sthapit, H. Lamers, R. Rao and A. Bailey). pp. 112-126. Abingdon, Oxon (UK): Routledge. ISBN: 978-1-138-78128-3
- (11) Marambe B., Abeysekara ASK, and Herath HMS (2015): Weeds and weed management in agricultural and natural ecosystems: an overview of the Sri Lankan context. In: Weed Science in the Asian-Pacific Region, Chapter 9, (Eds. V.S. Rao, N.T. Yaduraju, N.R. Chandrasena, Gul Hassan and A.R. Sharma), pp. 213-240. Asian-Pacific Weed Science Society and Indian Society of Weed Science, Hyderabad.
- (12) Marambe B., Wijesundera S., Silva, P., Weerakoon, D., Gunawardena J., Ranwala S., Manawadu, L., Atapattu N., Mallawatantri A., Silva A., Gamage G. (2015): Strengthening capacity to control invasive alien plants Sri Lankan experience. In: Weed Science for Sustainable Agriculture, Environment and Biodiversity, Chapter 11, (Eds. A.N. Rao and N.T. Yaduraju), pp.153-169. Asian Pacific Weed Science Society and Indian Society of Weed Science, Hyderabad.

- (13) Marambe B, Silva P, Weerahewa J, Pushpakumara G, Punyawardena R and Pallawala R (2015): Enabling policies for agricultural adaptations to climate change in Sri Lanka.

  <u>In</u>: Handbook of Climate Change Adaptation (Ed: W. Leal). pp 901-927. Springer-Verlag Berlin Heidelberg (ISBN 978-3-642-38669-5).
- (14) Marambe B., Punyawardena R., Silva P., Premalal S., Rathnabharathie V., Kekulandala B., Nidumolu U. and Howden M. (2015): Climate, climate risk, and food security in Sri Lanka: need for strengthening adaptation strategies. In: Handbook of Climate Change Adaptation (W. Leal ed.). pp 1959-1789. Springer-Verlag Berlin Heidelberg (ISBN 978-3-642-38669-5).
- (15) **Marambe B.** and Silva P. (2012): Sustainable agriculture a systems approach, <u>In:</u>
  Handbook of Sustainability Management. (Eds. Christian N. Madu and Chua-Hua Kuei). World Scientific Publishing, Singapore. pp 687-712. ISBN: 978-981-4354-81-3.
- (16) Marambe, B., Pushpakumara, G. and Silva P. (2012): Biodiversity and Agro-biodiversity in Sri Lanka: A case in Village Tank Systems. <u>In</u>: Biodiversity Observation Network in the Asia-Pacific Region: Towards Further Development of Monitoring (Eds: S-I Nakano, T. Yahara, and T. Nakashizuka). Springer, Japan. pp 403-430 (ISBN 978-4-431-54031-1)
- (17) Marambe B, Silva GLLP, Pushpakumara DKNG and Silva KAID (2012): Sustainable development in the context of biodiversity and food security. In: SOBA – A special magazine published for Rio+20 Summit (Ed. GMJK Gunawardena). Ministry of Environment, Sri Lanka. pp 17-26.
- (18) Marambe B and Gunawardena J (2010): Institutional coordination, legal regime and policy framework for management of invasive alien species in Sri Lanka. <a href="In:">In:</a> In: Invasive Alien Species Strengthening Capacity to Control Introduction and Spread in Sri Lanka (Editors: B Marambe, P Silva, S Wijesundara and N Atapattu), Chapter 6. pp 63-76. Biodiversity Secretariat of the Ministry of Environment, Sri Lanka.
- (19) Pushpakumara G, Thattil R, **Marambe B**, Silva, P, Athauda S and Weerakoon D (2010): A conceptual framework for quantitative assessment of the invasiveness of alien species in Sri Lanka. <u>In</u>: Invasive Alien Species Strengthening Capacity to Control Introduction and Spread in Sri Lanka (Editors: B Marambe, P Silva, S Wijesundara and N Atapattu), Chapter 13. pp 87-94. Biodiversity Secretariat of the Ministry of Environment, Sri Lanka.
- (20) Gamage DVS de S, Silva P. and **Marambe B** (2010): Capacity building for conservation and utilization of farm animal genetic resources in Sri Lanka. <u>In</u>: Indigenous Animal genetic Resources in Sri Lanka (Editor: P Silva). Chapter 5. pp. 133-168. A Publication of the UNEP/GEF/ILRI FAnGr Project of Sri Lanka.
- (21) Marambe B and Pushpakumara DKNG (2007): The contribution of plant genetic resources for food and agriculture (PGRFA) management to Food Security and sustainable development. <a href="In:">In:</a> National Information Sharing Mechanism (NISM) on the Implementation of the Global Plan of Action (GPA) for the Conservation and Utilization of Plant Genetic Resources for Food and Agriculture in Sri Lanka (Editors: DH Muthukuda Arachchi, CS and L Amarasinghe). Chapter 8. pp 127-137. FAO-Government of Sri Lanka Cooperative Program, FAO and Department of Agriculture, Sri Lanka
- (22) Marambe B (2006). Control of sedges in Rice Cultivation of Sri Lanka. <u>In</u> Management of Sedge weeds in Rice (Editors: Kil-Ung Kim and R Labrada), Chapter 2. pp 13-21. Kyungpook National University, Korea.
- (23) Marambe B (2005): Properties of rice growing in abandoned paddies in Sri Lanka. <u>In:</u> Crop Ferality and Volunteerism (Editor: J Gressel). Chapter 18. pp 295-303. CRC Press, Florida.

(24) **Marambe B** (1998): Potential of allelopathy for weed management in wet-seeded rice cultivation in Sri Lanka. <u>In</u> Allelopathy in Rice (Editor: M Olofsdotter) Chapter 12. pp 139-146. International Rice Research Institute, Philippines.

#### **ACADEMIC MERIT AWARDS**

- (1) **Lifetime Achievement Award** of the International Weed Science Society for contribution to the field of Weed Science (2022)
- (2) Presidential Award for Scientific Publications (2018)
- (3) Presidential Award for Scientific Publications (2015)
- (4) Merit Award of the National Research Council for Scientific Publication (2017)
- (5) Merit Award of the National Research Council for Scientific Publication (2014)

# **FULL PAPERS** - (In refereed Journals, and Edited Books/Proceedings)

- (1) Dahal K.R., Dahal P., Adhikari R.K., Naukkarinen V., Panday D., Bista N., Helenius J. and Marambe B. (2023): Climate Change Impacts and Adaptation in a Hill Farming System of the Himalayan Region: Climatic Trends, Farmers' Perceptions and Practices. Climate 11(1): 11 https://doi.org/10.3390/cli11010011
- (2) Marambe B. (2022): Strengthening Climate-Resilient Food Systems to tackle Climate Crisis and to Ensure Food Security. Cey. J. Sci. 51: 331-333
- (3) Srirwardana A.N., Samarakone T.S., Silva G.L.L.P., Dematawewa C.M.B., Punyawardena B.V.R., **Marambe B.**, Nidumolu U., and Howden M. (2022): Use of traditional knowledge in weather prediction and averting climate risks: a case study in livestock-based smallholder farming systems in Sri Lanka. J. Sci. Food Agric. Reports. doi: https://doi.org/10.1002/jsf2.51
- (4) Kadupitiya H.K., Madushan R.N.D., Gunawardhane D., Sirisena D., Rathnayake U., Dissanayaka D.M.S.B., Ariyaratne M., Marambe B. and Suriyagoda L. (2022): Mapping Productivity-related Spatial Characteristics in Rice-based Cropping Systems in Sri Lanka. J. Geovisual. Spatial Anal. 6: 26
- (5) Muthulingam P. and **Marambe B.** (2022): The invasive weed Gorse (*Ulex europaeus* L.) in Sri Lanka: Implications of Naturalization over a Century. Weeds Journal of Asian-Pacific Weed Science Society, 4: 21-35
- (6) Sandamal S., Tennakoon A., Wijerathna P., Ratnasekera D., Amarasekera D.A.B.N., Ge S., Marambe B., Abd\_Allah E.F. and Sabagh A.E. (2022): Phenotypic Characterization of Wild Relatives of Rice (*Oryza nivara*) Collected from Sri Lanka. Phyton Int. J. Exp. Bot.: doi:10.32604/phyton.2022.018983
- (7) **Marambe B.** (2022): Sri Lanka Needs a Return to "Good Agricultural Practices" A Professional Perspective. J. Org. Professionals Assoc. Sri Lanka (OPA): 11: 6-10
- (8) Bandara T., **Marambe B.**, Pushpakumara G., Silva P., Punyawardena R., Premalal S., Manawadu L., Dahal KR., Md. Miah G. (2021): Climate resilience of farming systems in steep mountain terrain of selected regions in South Asia. APN Science Bulletin, 11(1): 89-111.
- (9) Sandamal P.S., Tennakoon A., Amarasekara D.A.B.N., Marambe B. and Rathnasekera D. (2021): Functional trait diversity of wild rice species in Sri Lanka: implications for field identification and application. Journal of the National Science Foundation, 49(3): 369-382
- (10) Marambe B. and Wijesundara S. (2021): Effects of Climate Change on Weeds and Invasive Alien Plants in Sri Lankan Agro-Ecosystems: Policy and Management Implications. Frontiers in Agronomy 3:641006. DOI: http://10.3389/fagro.2021.641006

- (11) Abeysekera A.B., Punyawardena B.V.R., **Marambe B.**, Jayawardena I.M.S.P., Sivananthawerl T. and Wickramasinghe V.N.M. (2021): Effect of Indian Ocean Dipole (IOD) events on the Second Inter-monsoonal rainfall in the Wet Zone of Sri Lanka. Tropical Agricultural Research 32: 287-297 DOI: http://doi.org/10.4038/tar. v32i3.8492
- (12) Dissanayaka D.M.S.B., Rankoth, Lalith M., Gunathilaka, W.M.N.D., Prasantha, B.D.R. and Marambe B. (2021): Utilizing food legumes to achieve iron and zinc nutritional security under changing climate, Journal of Crop Improvement, DOI: 10.1080/15427528. 2021.1872754
- (13) Weerahewa J., Marambe B., Silva P. and Pushpakumara G. (2021): Productivity of agri-food sector of Sri Lanka: the story unseen, unfolded or untold. Sri Lanka Journal of Economic Research 8: 125-140 DOI: http://doi.org%2F10.4038%2Fsljer.v8i2.140
- (14) Punyawardena R. and **Marambe, B**. (2020): Do paddy soils of Sri Lanka emit excessive amounts of methane? a potent greenhouse gas (GHG) responsible for global warming and climate change. Sri Lanka Journal of Food and Agriculture, 6(2), pp.1–6. DOI: http://doi.org/10.4038/sljfa.v6i2.83
- (15) Chamara R.M.S.R., Senevirathne S.M.P., Samarasinghe S.A.I.L.N., Premasiri M.W.R.C., Sandaruwani K.H.C., Dissanayake D.M.N.N., De Silva S.H.N.P., Ariyaratne W.M.T.P. and **Marambe B**. (2020): Role of artificial intelligence in achieving global food security: a promising technology for future. Sri Lanka Journal of Food and Agriculture, 6(2), pp.43–70. DOI: http://doi.org/10.4038/sljfa.v6i2.88
- (16) Marambe B. and Herath S. (2020). Banning of Herbicides and Its' Impact on Agriculture The Case of Glyphosate in Sri Lanka. Weed Science 68: 246–252. doi: 10.1017/wsc.2019.71
- (17) Marambe B. and Silva P. (2020): A sixty-day battle to tackle food security response of the Sri Lankan government to the COVID-19 pandemic. Sri Lanka Journal of Food and Agriculture, 6(1), pp.1–5. DOI: http://doi.org/10.4038/sljfa.v6i1.77
- (18) Marambe B. (2019): Agriculture negotiations under the United Nations Framework Convention on Climate Change (UNFCCC). Sri Lanka Journal Food and Agriculture, 5(2): 1-6.
- (19) Illangakoon T.K., Marambe B., Keerthisena R.S.K. and Kumar V. (2019): Importance of anaerobic seed germination and seedling development in direct-seeded rice with special reference to Sri Lanka. Sri Lanka Journal of Food and Agriculture, 5(2): 47-57.
- (20) Marambe B. (2019): Labour productivity in agriculture: a case from Sri Lanka and some food for thoughts Editorial. Sri Lanka Journal of Food and Agriculture, 5 (1): 1-3
- (21) Wijerathna M., Wickramasuriya H.V.A. and **Marambe B.** (2019): How Do Academic Agriculturalists Engage in and View Outreach? The Case of Faculties of Agriculture in State Universities of Sri Lanka. Journal of Higher Education Outreach and Engagement, 23(3): 71-88.
- (22) Abeysekera A.M., Punyawardena B.V.R., **Marambe B.**, Jayawardena I.M.S.P., Wickremasinghe V.N.M., Senarathna S.D.D.I. and Wijerathna W.M.V.S. (2019): Effect of El Nino Southern Oscillation (ENSO) events on inter-seasonal variability of rainfall in wet and intermediate zones of Sri Lanka. Tropical Agriculturist 167(1): 14-27
- (23) Marambe B., Weerahewa J., Pushpakumara G., Silva P., Punyawardena R., Premalal S., Miah. MD. G., Roy J. and Jana S. (2018): Climate Variability and Adaptation of Homegardens in South Asia: Case Studies from Sri Lanka, Bangladesh and India. Sri Lanka Journal of Food and Agriculture 4(2): 7-27
- (24) Chamara B.S., **Marambe B.**, Kumar V., Ismail A.M., Septiningsih E.M., and Chauhan B.S. (2018): Optimizing sowing and flooding depth for anaerobic germination-tolerant genotypes to enhance crop establishment, early growth, and weed management in

- dry-seeded rice (*Oryza sativa* L.). Frontiers in Plant Science DOI: 10.3389/fpls.2018.01654
- (25) Sandamal S., Tennakoon A., Meng Q-L., **Marambe B**., Ratnasekera D., Melo A. and Ge S. (2018): Population genetics and evolutionary history of the wild rice species *Oryza rufipogon* and *O. nivara* in Sri Lanka. Ecology and Evolution 2018: 1-10 (DOI: 10.1002/ece3.4)
- (26) Sandamal S., Tennakoon A., Amarasekera D.A.B.N., **Marambe B**. and Ratnasekera D. (2018): Eco-geographic Variation of Common Wild Rice *Oryza rufipogon* Griff. in Sri Lanka. Plantae Scientia 1(2): 36-43.
- (27) Amarasingha R.K., Suriyagoda L.D.B., Marambe B., Galagedara L.W. and Punyawardena R. (2018): Impact of climate change on rice yield in Sri Lanka: A crop modelling approach using Agriculture Production System Simulator (APSIM). Sri Lanka Journal of Food and Agriculture 4(1): 21-26.
- (28) Dissanayaka D.M.S.B., Plaxton C.W., Lambers H, Siebers M. **Marambe B.** and Wasaki J. (2018): Molecular mechanisms underpinning phosphorus-use efficiency in rice. Plant Cell Environment 47(1): 1-14 (DOI:10.1111/pce.13191)
- (29) Nishanthan K., Sivachandiran S. and **Marambe B.** (2018): Seed bank dynamics and integrated management of *Parthenium hysterophorus* in vegetable capsicum, Crop Protection 107: 56-63 (https://doi.org/10.1016/j.cropro.2018.01.013).
- (30) Mayamulla S., Weerarathne L.V.Y, **Marambe B.**, Sirisena D.N. and Suriyagoda L.D.B. (2017): Variation in seed nutrient content, seedling growth and yield of rice varieties grown in a paddy field without application of fertilizers for forty years. Crop & Pasture Science 68: 337-348 (http://dx.doi.org/10.1071/CP17060)
- (31) Amarasingha, R.P.R.K., Suriyagoda, L.D.B., **Marambe B.**, Rathnayake W.M.U.K., Gaydon D.S., Galagedara L.W., Punyawardena R., Silva G.L.L.P., Nidumolu, U. and Howden M. (2017): Improving water productivity in moisture-limited rice-based cropping systems through incorporation of maize and mungbean: A modelling approach. Agricultural Water Management 189: 111-122.
- (32) Weeraratne L.V.Y., **Marambe B.** and Chauhan B.S. (2017): Does intercropping play a role in alleviating weeds in cassava as a non-chemical tool of weed management? A review. Crop Protection 95: 81-88.
- (33) Weeraratne L.V.Y., **Marambe B.** and Chauhan B.S. (2017): Intercropping as an effective component of Integrated Weed Management in tropical root and tuber crops: A review. Crop Protection 95: 89-100
- (34) Chamara B.S., **Marambe B.** and Chauhan B.S. (2017): Management of *Cleome rutidosperma*DC using high crop density in dry-seeded rice. Crop Protection 95: 120-128
- (35) Dissanayake D.M.S.B., Wickramasinghe W.M.K.R., **Marambe B.** and Wasaki J. (2016): Phosphorus-mobilization strategy based on carboxylate exudation in lupin (Lupinus, Fabaceae): A mechanism facilitating the growth and phosphorus acquisition of neighboring plants under phosphorus-limited conditions. J. Experimental Agriculture 53: 308-319 (DOI: 10.1017/S0014479716000351)
- (36) Illangakoon T.K., Ella E.S., Ismail A.M., **Marambe B**., Keerthisena R.S.K., Bentota A.P. and. Kulatunge S. (2016): Impact of Variety and Seed Priming on Anaerobic Germination-Tolerance of Rice (*Oryza sativa* L.) Varieties in Sri Lanka. Tropical Agricultural Research 28(1): 26-37
- (37) Amarasingha R.P.R.K, Suriyagoda L.D.B., **Marambe B.,** Gaydon D.S., Galagedara L.W., Punyawarden R., Silva G.L.L.P., Nidumolu U. and Howden M. (2015): Simulation of crop and water productivity for rice (*Oryza sativa* L.) using APSIM under diverse agroclimatic conditions and water management techniques in Sri Lanka. Agricultural Water Management 160: 132-143

- (38) Weerarathne L.V.Y., Suriyagoda L.D.B. and **Marambe B.** (2015): Barnyard grass (*Echinochloa crus-galli* (L.) P. Beauv) is less competitive on rice (*Oryza sativa* L.) when phosphorus (P) is applied to deeper layers in P-deficient and moisture-limited soils. Plant and Soil 391: 1-17 (DOI 10.1007/s11104-015-2383-y)
- (39) Amarasingha R.P.R.K., Suriyagoda L.D.B., **Marambe B.**, Galagedara L.W., Punyawardena R., Silva G.L.L.P. Wijekoon R., Nidumolu U., and Howden M. (2015): Modelling the impact of changes in rainfall distribution on the irrigation water requirement and yield of short and medium duration rice varieties using APSIM during *Maha* season in the Dry zone of Sri Lanka. Tropical Agricultural Research 26: 274-284
- (40) Wijerathna R.M.S., Wickremasuriya H.V.A. and **Marambe B.** (2015): Factors Predicting the Intention of Academics of Faculties of Agriculture in the State Universities in Sri Lanka to Engage in Outreach Activities. Tropical Agricultural Research 26: 286-294
- (41) Marambe B. and Silva P. (2015): Impact of climate change on biodiversity: challenge to agroecosystems in South Asia. Proc. MARCO Symposium 2015 Next Challenges of Agro-Environmental Research in Monsoon Asia. pp 20-26. Tsukuba, Japan.
- (42) Amarasingha R.K., Suriyagoda L.D.B., **Marambe B.**, Galagedara L.W., Silva G.L.L.P., Punyawardena R., Nidumolu U., Howden M., Parson D., Meinke H. (2015): Yield advantage and water productivity of maize-mungbean inter-cropping systems in the Dry Zone of Sri Lanka; a modelling approach. Proceedings of the 17<sup>th</sup> ASA Conference, 20 24 September, Hobart, Australia.
- (43) Fernando M.E.K.K., Amarasekara D.A.B.N., Amarasingha R.K., Suriyagoda L.D.B., Marambe B., Galagedara L.W., Silva G.L.L.P., Punyawardena R., Parson D., Meinke H. (2015): Validation of APSIM for long duration rice varieties in different agro-climatic zones of Sri Lanka. Proceedings of the 17<sup>th</sup> ASA Conference, 20 24 September 2015, Hobart, Australia.
- (44) Sathischandra S.G.A.S., **Marambe B.** and Punyawardena R. (2014): Seasonal changes in temperature and rainfall and its relationship with the incidence of weeds and insect pests in rice (*Oryza sativa* L) cultivation in Sri Lanka. Climate Change and Environmental Sustainability 2(2): 105-115 (DOI: 10.5958/2320-642X.2014.00002.7)
- (45) Amarasinghe R.P.R.K., Galagedara L.W., **Marambe B.**, Silva G.L.L.P., Punyawardena R., Nidumolu U., Howden M and Suriyagoda L.D.B. (2014): Aligning sowing dates with onset of rains improve rice yields and water productivity: Modelling *Oryza sativa* L. in *Maha* season in the dry zone of Sri Lanka. Tropical Agricultural Research 25: 277-286
- (46) Mattson E., Ostwald M., Nissanka S.P. and **Marambe B.** (2013): Homegardens as a multifunctional land-use strategy in Sri Lanka with a focus on carbon sequestration. AMBIO 42: 892-902
- (47) Nishanthan K., Sivachandiran S. and **Marambe B.** (2013): Control of *Parthenium hysterophorus* L. and its Impact on Yield Performance of Tomato (*Solanum lycopersicum* L.) in the Northern Province of Sri Lanka. Tropical Agricultural Research 25(1): 56-68
- (48) Marambe B., Pushpakumara G., Silva P., Weerahewa J. and Punyawardena R. (2013): Climate change and household food security in homegardens of Sri Lanka. Proc. International Conference on Climate Change Impacts and Adaptation for Food and Environmental Security (Eds: H.P.M. Gunasena, H.A.J. Gunathilake, J.M.D.T. Everard, C.S. Ranasinghe and A.D. Nainanayake), pp 87-100, Colombo, Sri Lanka
- (49) Gunawardana W.G.N., Ariyaratne, M., Bandaranayake, P. and Marambe, B. (2013): Control of *Echinochloa colona* in aerobic rice: effect of different rates of seed paddy and postplant herbicides in the dry zone of Sri Lanka. Proc. 24<sup>th</sup> Asian Pacific Weed Science Society Conference (Eds: B.Hj. Baka, D. Kurniadie, S. Tjitrosoedirdjo). pp 431-437 Bandung, Indonesia.

- (50) Daulagala C., Weerahewa J., **Marambe B.**, Pushpakumara G., Silva P., Punyawardena R., Premalal S., Miah G., Roy J. and Jana S. (2012): Socio-economic characteristics of farmers influencing adaptation to climate change: Empirical results from selected homegardens in south Asia with emphasis on commercial orientation. Sri Lanka J Advanced Social Studies 2(2): 71-90
- (51) Pushpakumara DKNG, **Marambe B**, Silva GLLP, Weerahewa J and Punyawardena BVR (2012): Review of research on Homegardens in Sri Lanka: the status, importance and future perspective. Tropical Agriculturist 160: 55-125
- (52) Weerahewa J., Pushpakumara G., Silva P., Daulagala C., Punyawardena R., Premalal S., Miah G., Roy J., Jana S. and **Marambe B.** (2012): Are Homegarden Ecosystems Resilient to Climate Change? An Analysis of the adaptation strategies of homegardeners in Sri Lanka. APN Science Bulletin 2: 22-27
- (53) Dissanayake D.M.S.B. and **Marambe B.** (2011): Impact of post emergence herbicides and inundation on control of weedy rice (*Oryza sativa* f. spontanea). Sri Lankan journal of Agricultural Sciences. 48: (In Press)
- (54) Wijesekara, GAW and **Marambe B** (2011): Arsenic in the environment an overview on global and Sri Lankan context. Annals of the Sri Lanka Department of Agriculture. 13: 229-243.
- (55) Marambe B., Silva P., Ranwala S., Gunawardena L., Weerakoon D., Wijesundara S., Manawadu L., Atapattu N. and Kurukulasuriya M. (2011): Invasive alien fauna in Sri Lanka: National list, impacts and regulatory framework. In: Island invasives: Eradication and management. IUCN (Eds: C.R. Veitch, M.N. Clout, and D.R. Towns). pp 445-450. International Union for Conservation of Nature, Gland, Switzerland.
- (56) Ranwala S., **Marambe B.**, Wijesundara S., Silva P., Weerakoon D., Atapattu N., Gunawardena J., Manawadu L. and Gamage G. (2012): Post-entry risk assessment of invasive alien flora in Sri Lanka: Present status, gap analysis and the most troublesome alien invaders. Pakistan J Weed Science 18: 863-871
- (57) Rajapakse R. Chandrasena N., **Marambe B.** and Amarasinghe L. (2012): Planning for effective weed management: Lessons from Sri Lanka. Pakistan J Weed Science 18: 843-853
- (58) Marambe B., Wijesundera S. and Silva P. (2009): Climate change and invasive alien species. In: Proc. Conference on Global Climate Change and its Impacts on Agriculture, Forestry and Water in the Tropics (Nissanka S.P. and Sangakkara U.R. eds). pp 97-113. Kandy, Sri Lanka
- (59) **Marambe B.** (2009): Weedy rice evolution, threats and management. Tropical Agriculturist, 157: 43-64.
- (60) Marambe B., Pushpakumara G and Silva, P (2009): Biological diversity in lowland rice fields – Sri Lankan context. In Biodiversity and Agro-ecosystem in Rice Paddy Landscape in Monsoon Asia (Eds. K. Yasuda and S. Yamamoto). pp 1-10. MARCO Symposium: Challenges for Agro-Environmental Research in Monsoon Asia. 5-7 October, NIAES, Tsukuba, Japan.
- (61) Perera E.R.K., Silva G.L.L.P. and **Marambe B.** (2009). Development of an outcomes-based Curriculum Embedding Employability Skills, Institutional Goals and Values: A Sri Lankan Experience. "Enhancement of Graduate Employment". Proceedings of Southeast Asian Institutions of Higher Learning (ASAIHL). (Editors: S Amunugama, KD Jayasuriya and NK Dangalle). pp 72-83. ASAIHL and University of Kelaniya, Sri Lanka.
- (62) Marambe B. (2007). Alien invasions, international trade and national legislations. Proc. 21<sup>st</sup> Asian Pacific Weed Science Society (APWSS) Conference – Plenary Papers (Editors: B Marambe, UR Sangakkara, WAJM De Costa, ASK Abeysekara). Colombo, Sri Lanka. pp 26-29.

- (63) Marambe B. (2008): Research priorities on invasive alien species in Sri Lanka. Proceedings of the national Symposium on Invasive Alien Species. (Editor: S.M.W. Ranwala). pp 7-12. Sri Lanka Association for the Advancement of Science, National Science Foundation of Sri Lanka and biodiversity Secretariat of the Ministry of Environment, Sri Lanka.
- (64) Subasinghe S.A.C.C., Ranasinghe A.M. and Marambe B. (2007): Molecular characterization of weedy rice in Sri Lanka. Proc. 21<sup>st</sup> Asian Pacific Weed Science Society (APWSS) Conference (Editors: B Marambe, UR Sangakkara, WAJM De Costa, ASK Abeysekara). 2-6 October, Colombo, Sri Lanka. pp 469-476
- (65) Jayawardena K., Nandasena Y.L.D. and Marambe B. (2007): Determination of competitive ability of difference rice varieties (*Oryza sativa*) against *Ludiwigia octovalvis* (Jacq.) Raven. Proc. 21<sup>st</sup> Asian Pacific Weed Science Society (APWSS) Conference (Editors: B Marambe, UR Sangakkara, WAJM De Costa, ASK Abeysekara). 2-6 October, Colombo, Sri Lanka. pp 663-667.
- (66) Marambe B. (2006): Invasive alien species and their management strategies in insular south Asia. NIAES International Symposium: Evaluation and Effective use of Environmental Resources for Sustainable Agriculture in Monsoon Asia Towards International Research Collaboration. Tsukuba, Japan. pp 33-40.
- (67) Abeysekera A.S.K., Bandara R.M. and Marambe B. (2005): Impact of different application methods of pretilachlor (Sofit\*) on weed control in wet-seeded rice. Proc. 20<sup>th</sup> Asian Pacific Weed Science Society (APWSS) Conference (Editor: DV Chin). Ho Chi Minh City, Vietnam. pp 306-310.
- (68) Gunaratne H.M.A.C., De Silva M.S.D.L., and **Marambe B.** (2005): Changes of microbial activity with recommended use of herbicides in high grown tea in Sri Lanka. Proc. 20<sup>th</sup> Asian Pacific Weed Science Society (APWSS) Conference (Editor: DV Chin). Ho Chi Minh City, Vietnam. pp 677-686.
- (69) Jayasinghe C., Wijesundara D.S.A., Tennakoon K.U. and **Marambe B.** (2004). Cuscuta species in the lowlands of Sri Lanka, their host range and host-parasitic association. Tropical Agricultural Research 16: 223-241.
- (70) Marambe B., Amarasinghe L., Silva A., Gamage G., Dissanayake S. and Seneviratne A. (2004): Distribution, biology and management of Mimosa pigra L. in Sri Lanka. Manual on Biology and Management of Mimosa pigra (Editors: M Julien, G Glanagan, T Heard, Q Paynter and C Wilson), pp 85-90. CISIRO, Australia.
- (71) Marambe B. (2004): Orienting agricultural research in universities for national development. <u>In</u> Enhancing Agricultural Research in Sri Lanka (Editors: H.P.M. Gunasena and M.B. Sakalasooriya). Council for Agricultural Research Policy (CARP), Sri Lanka. pp 70-77.
- (72) **Marambe B.** (2004): Orientation of agriculture degrees towards better employment of graduates. <u>In</u> Employment Potential of Agriculture and Veterinary Science Graduates (Editor: H.P.M. Gunasena). University Grants Commission, Sri Lanka. pp 1-14.
- (73) Marambe B., Amarasinghe L. and Gamage G. (2004): National Profile Report on Invasive Alien Species in Sri Lanka. Regional Workshop on Prevention and Management of Invasive Alien Species: Forging Cooperation throughout South and Southeast Asia (Editors: N. Pallewatta, J.K. Reaser, and A.T. Gutierrez), pp 91-103. A joint publication of Government of USA, Royal Thai Government Thai Biodiversity Center, and GISP.
- (74) **Marambe B.**, Jayaweera M.A.K. and Hitinayake H.M.G.S.B. (2003): Paraquat-resistant *Crassocephalum crepidioides* in Sri Lanka. Proceedings of the 19<sup>th</sup> Asian Pacific Weed Science Conference (Editors: MC Casimero, JD Janiya and SM Pabilo), 782-787, Manila, Philippines.

- (75) **Marambe B.,** Wijesundera S., Tennakoon K., Pindeniya P. and Jayasinghe C. (2002): Growth and development of *Cuscuta chinensis* Lam. and its impact on selected crops. Weed Biology and Management 2: 79-83.
- (76) **Marambe B.** and Amarasinghe L. (2002): Propanil-resistant barnyard grass (*Echinochloa crus-galli* L. Beauv) in Sri Lanka: Seedling growth under different temperatures and control. Weed Biology and Management, 2: 194-199.
- (77) **Marambe B.** and Samita S. (2002): Propanil resistance in barnyard grass (*Echinochloa crusgalli*) and use of herbicides with alternative mode of action for their control in Sri Lanka. Journal of Plant Diseases and Protection, XVII: 967-972.
- (78) **Marambe B.,** Nissanka S.P., De Silva L., Anandacoomaraswamy A., and Priyantha M.G.D.L. (2002): Occurrence of paraquat-resistant *Erigeron sumatrensis* (Retz) in up country tea lands of Sri Lanka. Journal of Plant Diseases and Protection, XVII: 973-978.
- (79) Pushpakumara D.K.N.G., Kotagama H.B., **Marambe B.**, Gamage G., Silva K.A.I.D., Gunaratne L.H.P., Wijesundera C. and Karaluvinne S.S.D.K. (2002): Prospects of pharmaceutical prospecting to finance biodiversity conservation in Sri Lanka. Sri Lankan J. Agricultural Economics 1: 39-71.
- (80) Pushpakumara D.K.N.G., Marambe B. and Goonasekara K.G.A. (2002): Potential for integration of medicinal plants into farming systems: A case study at Naula MPCA. Proc. 11<sup>th</sup> Workshop on Multipurpose Tree Recent Developments in Conservation and Use of Medicinal Plants (Editors: H.P.M. Gunasena and W.A.J. De Costa). pp 40-52
- (81) Mazeen A.C.M., Abeykoon S.A.M.R., Nugaliyadde M.M., Marambe B., Kularatne R.J.K.N. and Amerasena B.G. (2002): Effect of age of mother plants on growth, yield and senescence of rooted stem cuttings and basic seed in potato. Annals of the Sri Lankan Department of Agriculture 4: 161-168.
- (82) **Marambe B.** and Wijeratna Banda P.M. (2002). National capacities on green food and sustainable agriculture: Sri Lanka. Proceedings of the Asia-Pacific Workshop on Green Food and Sustainable Agriculture, pp 107-113. Xi'an, China 25-29 June,
- (83) **Marambe B.** (2001): Alien invasive plants in the central province of Sri Lanka. Sri Lankan Biodiversity Review 1: 21-30.
- (84) Wijesundera S., Jayasinghe C., **Marambe B.** and Tennakoon K.U. (2001): Host-parasitic associations of *Cuscuta chinensis* Lam. in Sri Lanka. Annals of the Sri Lanka Department of Agriculture 3: 343-351.
- (85) Sakalasooriya M.B., Wijayagunasekara H.N.P., **Marambe B.** and Shaw R. (2001). Screening of Potential Biocontrol Agents for *Ligustrum robustum* subsp. *walkeri* in Sri Lanka for Possible Release in the Island of La Réunion. Tropical Agricultural Research 13: 353-363.
- (86) **Marambe B.**, Bambaradeniya C., Pushpa Kumara D.K. and Pallewatta N. (2001): Human dimensions of invasive alien species in Sri Lanka. *In:* The Great Reshuffling; Human Dimensions of Invasive Alien Species (Editor: JA McNeely), IUCN, Gland, Switzerland and Cambridge, UK. 135-142.
- (87) Marambe B., Abeysekera A.S.K., Wickrema U.B. and Wijegunawardena S.P.M.B. (2001): Impact of different rates and times of application of bispyribac-sodium on weed control and growth and yield of rice (*Oryza sativa* L). Proc. 18<sup>th</sup> Asian Pacific Weed Science Society (APWSS) Conference (Editors: Hanwen Ni and ZG You), Beijing, China. 793-797.
- (88) Abeysekera A.S.K., **Marambe B.**, Wickrema U.B. and Wijegunawardena S.P.M.B. (2001): Fentrazamide+Propanil: A new broad-spectrum herbicide formulation for lowland rice field of Sri Lanka. Proc. 18<sup>th</sup> Asian Pacific Weed Science Society (APWSS) Conference (Editors: Hanwen Ni and ZG You), Beijing, China. 628-630.
- (89) **Marambe B.**, Amarasinghe L. and Dissanayake S. (2001): Growth and development of *Mimosa pigra*: an alien invasive plant in Sri Lanka. Plant Invasions: Species Ecology

- and Ecosystem Management. pp 115-122 (Editors: G Brundu, J Brock, I Camarda, L Child and M Wade). Backhuys Publishers, Leiden, The Netherlands.
- (90) **Marambe B.** (2000): Interaction between a propanil-containing herbicide and an organophsphate insecticide on rice (*Oryza sativa*). Sri Lankan J. Agric Sciences 37: 157-167.
- (91) Sakalasooriya M.B., Wijayagunasekara H.N.P., **Marambe B.** and Shaw R. (2000): Identification of potential biological agents *Ligustrum robustum* ssp. Walkeri. Tropical Agricultural Research 12: 205-216.
- (92) Pushpakumara D.K.N.G., Thattil R.O., Silva R.P., **Marambe B.** and Samita S. (2000): Development of Biodiversity indices using a multivariate approach. Sri Lankan J. Applied Statistics 1: 53-62.
- (93) Marambe B. and Amarasinghe L. (2000). Weedy rice in Sri Lanka. In Wild and Weedy Rice in Rice Ecosystems in Asia – a review (Editors: BB Baki, DV Chin and M Mortimer), pp 79-82. International Rice Research Institute, Philippines.
- (94) Marambe B., Amarasinghe L., Dissanayake S. and Balasooriya A.H.K. (2000): Distribution of the alien invasive plant Mimosa pigra L. in Sri Lanka. Proceedings of the Symposium n Alien Invasive Species of Sri Lanka: impact on ecosystems and management (Editor: B Marambe), pp 69-63. Ministry of Forestry and Environment of Sri Lanka and the National Agricultural Society of Sri Lanka.
- (95) Abeysekera A.S.K., Wickrema U.B., **Marambe B.** and Leelaratne H.A.C.K. (2000). Effect of tank mixtures of quinclorac and propanil on weed control, growth and yield of rice (Oryza sativa L). Annals of Sri Lanka Department of Agriculture 2: 1-7.
- (96) Sajeewani M.K.T., De Silva R.S.Y. and **Marambe B.** (2000). Weed seeds found in seed lots imported into Sri Lanka. Annals of Sri Lanka Department of Agriculture 2: 269-275.
- (97) Amarasinghe L., **Marambe B.** and Rajapakse R.P.A.D. (1999): Effect of Quinclorac on weed control and productivity of wet-seeded rice in the mid country region of Sri Lanka. Sri Lankan Journal of Agricultural Sciences *36*: 24-34.
- (98) **Marambe B.,** Karunasena K.G.J., Sangakkara U.R., Kotagama H.B., Dharmasena P.B. and Jayathilake A. (1999): Crop diversification in the command area of two minor irrigation schemes in Sri Lanka: socio-economic issues. Sri Lankan Journal of Agricultural Sciences 36: 93-102.
- (99) Abeysekara A.S.K., Marambe B. and Ekanayake E.M.M.S. (1999): Effect of Salvinia molesta (D.S. Mitchell) on growth and yield of rice (Oryza sativa L). Proceedings 17<sup>th</sup> Asian Pacific Weed Science Society (APWSS) Conference, I (A): 130-133.
- (100) **Marambe B.** (1999): Interaction between a propanil-containing herbicide and an organophosphate insecticide on rice (*Oryza sativa* L). Proceedings 17<sup>th</sup> Asian Pacific Weed Science Society (APWSS) Conference, I(A): 383-388.
- (101) **Marambe B.** and Amarasinghe L. (1999): Residual effects of quinlcorac on field crops grown in paddy fields of Sri Lanka. Proceedings 17<sup>th</sup> Asian Pacific Weed Science Society (APWSS) Conference, I(B): 519-526.
- (102) **Marambe B.** (1999): Factors affecting the spread of alien invasive plants in Sri Lanka. Proceedings of the First National Workshop on Alien Invasive Species in Sri Lanka (Editor: B Marambe), pp 29-33. Ministry of Forestry and Environment of Sri Lanka.
- (103) **Marambe B.** and Sangakkara U.R. (1998): Impact of effective microorganisms on dry matter partitioning in maize. Proceedings of the Fifth International Conference on Kyusei Nature Farming (Editors: YDA Senanayake and UR Sangakkara), pp 112-119.
- (104) **Marambe B.** (1998): Mechanism of weed interference in soybean (*Glycine max* L. Merr). Tropical Science 38: 134-143.
- (105) **Marambe B.,** Gunasena H.P.M., Eeswara J.P. and Kumudinie K.A. (1998): Effect of stage of maturity of neem seeds (*Azadirachta indica* A. Juss) on germination and physiological

- developments during cold storage. Proceedings of the Final Workshop University of Peradeniya-Oxford Forestry Institute Link Project (Editor: HPM Gunasena). pp 64-78.
- (106) Sangakkara U.R. and **Marambe B.** (1998): Influence of method of application of effective microorganisms on growth and yields of selected crops. Proceedings of the Fifth International Conference on Kyusei Nature Farming (Editors: YDA Senanayake and UR Sangakkara), pp 73-78.
- (107) Amarasinghe L. and **Marambe B.** (1998). Trends in weed control in rice in Sri Lanka. Multi-Disciplinary International Conference, University of Peradeniya, Sri Lanka. pp 13 (*supplement*).
- (108) Karunasena K.G.J., **Marambe B.**, Sangakkara U.R. and Dharmasena P.B. (1997): Productivity of rice and chilli under village tanks of Sri Lanka in *maha* season with respect to resource utilization. Tropical Agricultural Research 9: 168-181.
- (109) **Marambe B.**, Maylemans B. and Sangakkara U.R. (1997): Weed interference in Maize (*Zea mays* L). Sri Lankan Journal of Agricultural Science 34: 115-123.
- (110) Amarasinghe L. and **Marambe B.** (1997): *Mimosa pigra* L: A new weed in aquatic habitats of Sri Lanka. Sri Lanka Journal of Agricultural Science 34: 124-130.
- (111) **Marambe B.**, Amarasinghe L. and Senaratne G.R.P.B. (1997): Propanil resistant barnyard grass (*Echinochloa crus-galli* L Beauv.) in Sri Lanka. Proc. 16<sup>th</sup> Asian Pacific Weed Science Society (APWSS) Conference. (Editor: A. Rajan). pp 222-224.
- (112) **Marambe B.** and Sangakkara U.R. (1996): Weed control strategies in low-input farming systems. Commonwealth Agricultural Digest 5: 39-67.
- (113) **Marambe B.** (1996): Effect of defoliation on growth and physiological developments in tubers of purple nutsedge (*Cyperus rotundus* L). Journal of Agronomy and Crop Science 176: 323-329.
- (114) **Marambe B.** (1996): Physiology of vegetative reproduction strategy of purple nutsedge (*Cyperus rotundus* L). Sri Lankan Journal of Agricultural Science 33: 43-57.
- (115) Thattil R.O., **Marambe B.**, Abeynayake N.R. and Abeysiriwardena S. de Z. (1996): Recommendation of rice cultivars based on stability analysis. Proceedings of the Annual Research Sessions of University of Peradeniya (Editor: BRRN Mendis), 1-5.
- (116) Nissanka S.P. and **Marambe B.** (1996): Jackfruit (*Artocarpus heterophyllus*): a multipurpose tree species for food security in Sri Lanka. Proceedings of the Seventh Regional Workshop on Multipurpose Tree Species (Editor: H.P.M. Gunasena), pp 174-182.
- (117) **Marambe B.** and Ando T. (1995): Physiological basis of salinity tolerance of sorghum seeds during germination. Journal of Agronomy and Crop Science 174: 291-296
- (118) **Marambe B** and Gunasena HPM (1995): Storage of neem seeds (*Azadirachta indica* A. Juss). Proceedings of the sixth Regional Workshop on Multipurpose Tree Species (Editor: H.P.M. Gunasena), pp 182-189.
- (119) **Marambe B.**, Sangakkara U.R. and Ratnayaka S.K. (1995): Control of tuber growth of purple nutsedge (*Cyperus rotundus*): Effects of drying and depth of burying. *Proc. I(B)* 15<sup>th</sup> APWSS Conference, Tsukuba, Japan, pp 562-566.
- (120) **Marambe B.** and Ando T. (1994): Herbicidal properties of animal-waste composts: Identification of germination-inhibiting substances. Tropical Agricultural Research 6: 89-97.
- (121) **Marambe B.**, Sangakkara R. and Galahitiyawa N. (1994): Impact of effective microorganisms on weed dynamics A case study. Proc. 3<sup>rd</sup> International Conference on EM Technology of APNAN, Nov 15-19, Saraburi, Thailand. p 9-16.
- (122) **Marambe B.**, Nagaoka T. and Ando T. (1993): Identification and Biological Activity of Germination-Inhibiting Long-Chain Fatty Acids in Animal-Waste Composts. Plant and Cell Physiology 34: 605-612

- (123) Marambe B. and Ando T. (1993): Changes in ATP Content of Sorghum Seeds Imbibed in Aqueous Extracts of Germination-Inhibitory Animal-Waste Composts. Journal of Agronomy and Crop Science, 170:12-17
- (124) Ando T., Takaya H., **Marambe B.** and Kouno K. (1992): Effect of Cu and Zn in animal-waste composts on growth of Italian ryegrass. Journal of Japanese Society of Grassland Science 38 (Suppl.): 191-193.
- (125) **Marambe B.** and Ando T. (1992): Phenolic acids as potential seed germination-inhibitors in animal-waste composts. Soil Science and Plant Nutrition 38: 727-733
- (126) **Marambe B.**, Ando T. and Kouno K. (1992): Alpha-amylase and protease activities and water relations in germinating sorghum (Sorghum bicolor Moench) seeds as affected by animal-waste composts. Soil Science and Plant Nutrition 38: 123-131
- (127) **Marambe B.**, Ando T. and Kouno K. (1991): Effect of inorganic cations in animal-waste composts on water and cation absorption of germinating sorghum (*Sorghum bicolor*) seeds. Soil Science and Plant Nutrition 37: 487-495.
- (128) Ando T., Kurokawa K., **Marambe B.** and Kouno K. (1990): Quality evaluation of animal-waste composts. 1. Quality differences in different types of animal-waste composts. Journal of Japanese Society of Grassland Science 36: 311-312.
- (129) Sangakkara U.R. and **Marambe B.** (1989): Effect of method of inoculation and nitrogen fertilizer on nodulation and yield of selected tropical legumes. Journal of Agronomy and Crop Science 162: 305-309.
- (130) **Marambe B.** and Sangakkara R. (1988): Evaluation of different nitrogen fertilizer techniques on emergence and growth of tobacco (*Nicotiana tabacum* L) seedlings. Journal of Agronomy and Crop Science 161: 273-276.

## ABSTRACTS AND SELECTED CONFERENCE PRESENTATIONS

- (1) Dilshani A.B., Punyawardane B.V.R., **Marambe, B.** and Silva G.L.L.P. (2021): Estimation of on-farm enteric methane emission from dairy cows under intensive farming situation in the mid country of Sri Lanka. Proceedings of the Faculty of Agriculture Undergraduate Research Symposium, 13<sup>th</sup> August. Peradeniya.
- (2) Bandara R.M.U.S., Marambe B., Bentota A.P., Weerakoon W.M.W., Kumar V., Dissanayaka H.M.M.K.K.H. and De Silva Y.M.S.H.I.U. (2017): Competitive performance of rice varieties with weedy rice. Proc. Fifth International Conference on Agriculture and Fisheries Systems & Technology 8<sup>th</sup> December, Renuka City Hotel, Sri Lanka. pp 13.
- (3) Gunawardena M., Ranasinghe A.V., **Marambe B.**, Nagaoka T., Abeysekara T., Hanarasinghe R., Jayasinghe S. and Nanayakkara N. (2015): Kidney Injury Molecule-1 (KIM-1): A Promising Biomarker for Early Identification of Chronic Kidney Disease of Uncertain Etiology (CKDu) in Sri Lanka. Book of Abstracts, Third Conference on Sri lanka-Japan Collaborative Research. 18-20 September, University of Peradeniya, Sri Lanka
- (4) Siriwardena A.A., Silva G.L.L.P., Dematawewa C.M.B., Samarakone T.S., Punyawardena R., Marambe B., Nidumolu U. and Howden M. (2014): Climate-influenced management decisions on cattle rearing under smallholder missed farming systems in the Dryzone of Sri Lanka. Proc. Wayamba University International Conference, 29-30 August, Wayamba University of Sri Lanka, Kuliyapitiya, Sri Lanka, p 230.
- (5) Amarasinghe R.P.R.K., Suriyagoda L.D.B., **Marambe B.**, Galagedara L.W., Silva G.L.L.P., Punyawardena R., Nidumolu U. and Howden M. (2014): Validation of agricultural production systems simulator model for maize (*Zea mays* L) in the Dry Zone of Sri Lanka. Proc. Wayamba University International Conference, 29-30 August, Wayamba University of Sri Lanka, Kuliyapitiya, Sri Lanka, p 246.

- (6) Thadchaigeni P., Wijesinghe W.P.A.S., Weerahewa J. and **Marambe B.** (2014): An analysis of trends and determinants of spice trade of the world. Proc. Peradeniya University International Research Sessions (iPURSE), Peradeniya, 18: 67
- (7) Amarasinghe R.P.R.K., Suriyagoda L.D.B., Marambe B., Galagedara L.W., Silva G.L.L.P., Punyawardena R. (2014): Validation of APSIM model for short and medium age rice varieties in different agro-climatic zones of Sri Lanka. Proc. Peradeniya University International Research Sessions (iPURSE), Peradeniya, 18: 582
- (8) Weerarathen L.V.Y., **Marambe B**. and Suriyagoda L.D.B. (2014): Sub-soil phosphorous placement reduces the competitiveness of barnyardgrass [*Echinochloa crusgalli* (L) Beauv] on the early growth of rice (*Oryza sativa* L) irrespective of the moisture availability. Proc. Peradeniya University International Research Sessions (iPURSE), Peradeniya, 18: 596
- (9) Pushpakumara D.K.N.G., Marambe B., Weerahewa J., Silva G.L.L.P., Premakantha K.T. and Punyawardena B.V.R. (2014): Homegarden agroforestry for socio-economic, ecological and environmental sustainability in Sri Lanka. World Congress on Agroforestry. 10-14 February. Delhi, India
- (10) Pushpakumara D.K.N.G., Sivachandiran S., Marambe B., Sivananthawerl T., Singh V.P. and Jeyavanan K. (2014): Homegardens to Rebuild Environmental, Economic, Food and Nutritional Security in North & Eastern Provinces of Sri Lanka. World Congress on Agroforestry. 10-14 February. Delhi, India
- (11) Marambe B. (2012): Building human capital for knowledge-intensive agricultural development. Proceedings of Jaffna University International Research Conference 2012. Keynote Session. pp 17-18
- (12) Marambe B., Weerahewa J., Pushpakumara G., Silva P., Punyawardena R., Premalal S., Wijerathne B., Kandangama N., Kumara R., Miah G., Roy, J. and Jana S. (2011): Farmer perception and adaptation to climate change in homegardens of Sri Lanka. Proceedings of the WCRP Open Science Conference on "Climate Research Service to Nation". Denver, USA.
- (13) Marambe B., Mallawatantri A., Indrasiri L.H., Ellepola R. and Chandradasa U.W.L. (2011): Integrated strategic environmental assessment for the Northern Province. Proc. International Conference on Building Resilience Interdisciplinary approach to disaster risk reduction and the development of sustainable communities (Eds. D. Amaratunga, R. Haigh, K. Keraminiyage, U. Kulatunga and C. Pathirage). p. 113. International Institute for Infrastructure Renewal and Reconstruction and University of Stanford, UK. 19-21 July, Kandalama, Sri Lanka.
- (14) Marambe B. and Premaratne K.P. (2010): Contribution of universities to rice research and development in Sri Lanka 2001-2010. Rice Congress 2010, p 48-49 (2-3 December). Plant Genetic Resources Centre Gannoruwa, Sri Lanka
- (15) Marambe B., Gunawardena J., Wijesundara S., Silva P., Ranwala S., Weerakoon D., Manawadu L., and Atapattu N. (2010): An analysis of the legal and policy environment in Sri Lanka to control invasive alien species. International Conference on "Island Invasives: Eradication and Management". p 45. (8-12 February). University of Auckland, New Zealand, The Centre for Biodiversity and Biosecurity, New Zealand and The Invasive Species Specialist Group (ISSG), IUCN.
- (16) Silva P., Ranwala S., Weerakoon D., Marambe B., Wijesundara S., Manawadu L., Atapattu N., Gunawardena J. and Kurukulasuriya M. (2010): Invasive alien fauna in Sri Lanka. International Conference on "Island Invasives: Eradication and Management". p 64. (8-12 February). University of Auckland, New Zealand, The Centre for Biodiversity and Biosecurity, New Zealand and The Invasive Species Specialist Group (ISSG), IUCN.
- (17) Pushpakumara D.K.N.G., Wijesekera G.A.W. and **Marambe B.** (2010): Curricula for certificate level courses on crop wild relatives. <u>In</u>: Conservation and utilization of crop

- wild relatives of Sri Lanka Book of abstracts (Editors: B. Marambe and A. Wijesekera). Joint Publication of the Department of Agriculture and Ministry of Environment and Natural Resources, Sri Lanka. pp 41-42.
- (18) Senaratne S.A.S.P., Beneragama C.K. and **Marambe B.** (2003): Survey on use of herbicides in floriculture industry in Sri Lanka. Proceedings of the 59<sup>th</sup> Annual Sessions of the Sri Lanka Association for the Advancement of Science. p 95
- (19) Marambe B. (2002): Emerging weed problems in wet-seeded rice due to herbicide use in Sri Lanka. <u>In Proceedings of the First International Rice Research Conference</u>, Beijing, China 14-19<sup>th</sup> October 2002: 89
- (20) Marambe B. (2002): Biological Diversity and Biological Invasions. Paper presented at the First SAARC Regional Training Program on Biodiversity. 28<sup>th</sup> April 2002 7<sup>th</sup> May 2002. Culture, Club, Dambulla, Sri Lanka. Organized by the SAARC Secretariat, IUCN and the Ministry of Environment and Natural Resources of Sri Lanka.
- (21) Marambe B. (2002): Sustainable Agriculture, Biodiversity and Alien Invasive Plants. Key Note Address of the National Biodiversity Day Symposium, Ministry of Forestry and Environment, 22 May 2001. PGIA, University of Peradeniya.
- (22) **Marambe B.** (2000): Why a National Weed Strategy? Paper presented at the National Workshop on Preparation of a National Weed Strategy for Sri Lanka. Organized by the CARP, Ministry of Agriculture Sri Lanka. 1<sup>st</sup> December, PGRC, Peradeniya.
- (23) Pushpakumara D.K.N.G., Thattil R.O., **Marambe B.**, de Silva R.P. and Samita S. (2000): A conceptual approach in the development of indices of biodiversity. Science SLAAS 1: 17-18.
- (24) Marambe B. (1999): Factors affecting the spread of Alien Invasive Plants in Sri Lanka. Paper presented at the First National Workshop on Alien Invasive Species in Sri Lanka. 15 October 1999, NSF, Colombo, Sri Lanka.
- (25) **Marambe B.** (1999): Alien Invasive Plants in Sri Lanka: Current concerns and future perspective. Proc. Global Biodiversity Forum South and South East Asian Conference, 24-26 October, Colombo, Sri Lanka: pp
- (26) **Marambe B.** (1999): Studies on growth and development of *Mimosa pigra* L: An alien invasive plant in Sri Lanka. Paper presented at the National Workshop on Weed Management, organized by CARP, 1 November, Kandy, Sri Lanka.
- (27) Amarasinghe L. and **Marambe B.** (1999): Aquatic Weed Management in Sri Lanka: Present Status. Paper presented at the National Workshop on Weed management, organized by CARP, 1 November, Kandy, Sri Lanka.
- (28) Gunasena H.P.M. and Marambe B. (1999): Need for Integrated Development of Agriculture in Sri Lanka. Paper presented at the Annual Sessions of the Institute of Architects, Jan 26. BMICH, Colombo, Sri Lanka.
- (29) Nissanka S.P., **Marambe B.** and Samaranayake S.P. (1998): Critical period of weed competition in two cowpea (*Vigna unguiculata* L. Walp) varieties. Proc. Ann. Staff Res. Sess., University of Peradeniya, Sri Lanka (Editors: M.A. Careem, B.R.R.N. Mendis and Nelson M.D.). pp 3.
- (30) Priyantha M.G.D.L., **Marambe B.** and Nissanka S.P. (1998): Development of resistance in *Erigeron sumatrensis* (Retz) to paraquat in up country tea lands of Sri Lanka. Proc. Ann. Staff Res. Sess., University of Peradeniya, Sri Lanka (Editors: MA Careem, BRRN Mendis and MD Nelson). pp 106.
- (31) **Marambe B.** and Sangakkara U.R. (1996): Non-chemical control of purple nutsedge (*Cyperus rotundus* L). Proc IFOAM'96, p 107. (11-15 August) Copenhagen, Denmark.
- (32) Sangakkara U.R., **Marambe B.**, Attanayake A.M.U. and Gajanayake J.N. (1996): Organic manures for maintaining soil productivity. Proc. IFOAM'96, p 104. (11-15 August) Copenhagen, Denmark.

- (33) **Marambe B.** (1994): Physiological basis of germination and storage of neem seeds A research priority. MPTS News, 3(2): 7.
- (34) Gunasena H.P.M. and **Marambe B.** (1995): Storage technology of neem seeds: Sri Lankan experience. MPTS News, 4(1): 6-7.
- (35) **Marambe B.**, Nagaoka T. and Ando T. (1993): Activity of the isozyme complement of alphaamylase in sorghum seeds as affected by long-chain fatty acids. Proc. XV Int. Botanical Cong., Aug. 12-16, Yokohama, Japan.
- (36) **Marambe B.** and Sangakkara R. (1988): Nodulation and yield of selected legumes in relation to inoculation and nitrogen fertilizer. Proc. 44<sup>th</sup> Annual Sessions of the Sri Lanka Association for the Advancement of Science (SLAAS), Colombo. p 9.
- (37) Marambe B. and Sangakkara R. (1987): Effect of source and time of nitrogen fertilizer application on seed germination and seedling growth of *Nicotiana tabacum*. Proc. 43<sup>rd</sup> Annual Sessions of the Sri Lanka Association for the Advancement of Science (SLAAS), Colombo. p 38.

Prof Buddhi Marambe 22<sup>nd</sup> February 2023

wanh