



Tea Research Institute of Sri Lanka Technical Programme

Technical Session 1 - Innovations in Tea Crop Improvement and Biotechnology

Number of Presentations - 5

Date: 10th November 2025 (Day 1)

Time: 11:00 - 12:30

Chairperson: Prof. Thilak Attanayaka

Session coordinator: Dr. (Ms). M M N Damayanthi

Rapporteurs: Mr. M G S Liyanage and Ms. K V Yapa

Time	Manuscript ID	Title	Presenter
11:00 - 11:15	IST/25/SL/055	New Candidate Tea (<i>Camellia sinensis</i> L.) Cultivars of TRI 5000 Series for Low Country Tea Growing Regions in Sri Lanka	Dr. J H N Piyasundara, Tea Research Institute of Sri Lanka
11:15 - 11:30	IST/25/IN/026	Screening of Bangladesh Tea (<i>Camellia sinensis</i> L.) Germplasm for Drought Tolerance	Prof. A K M G Sarwar, Bangladesh Agricultural University
11:30 - 11:45	IST/25/SL/048	Optimization of the Somatic Embryogenesis Protocol for In-vitro Mutagenesis of Tea [<i>Camellia sinensis</i> (L.) O Kuntze]	Ms. D M R Dasanayaka, Research Institute of Sri Lanka
11:45 - 12:00	IST/25/SL/044	Identification of Drought Tolerance Accessions of Tea (<i>Camellia sinensis</i> L.) in Low Country Wet Zone of Sri Lanka	Ms. N M Vithanage, Research Institute of Sri Lanka
12:00 - 12:15	IST/25/SL/056	Floral and Leaf Morphological Characterization of Old Tea Genetic Resources in Hakgala Botanic Garden, Sri Lanka	Ms. G D N N Dayarathna, Research Institute of Sri Lanka
12:15 - 12:30	IST/25/SL/045	Investigating the Genotypic Differences in Critical Temperatures for Pollen Germination and Pollen Tube Growth of Selected Tea (<i>Camellia sinensis</i>) Cultivars	Ms. W U L Withanage, University of Ruhuna



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Technical Session 2 - Quality Improvement and Product Innovation

Number of Presentations - 5

Date: 10th November 2025 (Day 1)

Time: 12:30 – 13:45

Chairperson: Dr. Sarath B Abeysinghe

Session coordinator: Dr. (Ms) R K Amali

Rapporteurs: Dr. C J Liyanaarachchi and Ms. J W Welagedara

Time	Manuscript ID	Title	Presenter
12:30 - 12:45	IST/25/IN/001	Unlocking Healthier Brewing Alternatives: Differential Biochemical Profiling of Traditional and In Vitro Callus-Derived Sources for Decaffeinated Tea	Prof. N M Boopathi, Tamil Nadu Agricultural University
12:45 - 13:00	IST/25/SL/039	Development of a Hydrolyzed Collagen Incorporated Green Tea Blend and FTIR Characterization of the Developed Blend	Ms. H M B Y B Herath, University of Peradeniya
13:00 - 13:15	IST/25/IN/021	Validation of Improved Method for Theanine Determination in Matcha Tea by Inter-laboratory Study	Ms. S Nomura, National Agriculture and Food Research Organization, Japan
13:15 - 13:30	IST/25/IN/015	Response Surface Optimization for Extraction of Bioactive Compounds in CTC Black Tea Infusions	Prof. I Ahmad, Shahjalal University of Science and Technology
13:30 - 13:45	IST/25/SL/030	Evaluation of Biochemical Composition in Field-Grown Tea (Cultivar: TRI 2043) using Agrophotovoltaic-Driven LED Lighting	Prof. A J Mohotti, University of Peradeniya

Plenary Speech 1

Date: 10th November 2025 (Day 1)

Time: 14:45-15:05

Moderator: Dr. Fredrick Abeyratne

Speaker: Mr. Kenta Oshima, General Manager, CSV Strategy Department, Kirin Holdings Company Limited

Title of the Presentation: Sri Lankan Tea and KIRIN: Toward the Realization of Nature Positive Future



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Technical Session 3 - Competitiveness and Market Trends in Tea

Number of Presentations - 5

Date: 10th November 2025 (Day 1)

Time: 15:05 - 16:20

Chairperson: Dr. Fredrick Abeyratne

Session coordinator: Mr. M A Chamindra

Rapporteurs: Mr. P D De Alwis and Mrs. H B Tharangika

Time	Manuscript ID	Title	Presenter
15:05 -15:20	IST/25/SL/040	Market Potential for Ceylon Tea Geographical Indication: An Economic and Policy Assessment	Ms. Dilani Hirimuthugodage, Institute of Policy Studies of Sri Lanka
15:20 -15:35	IST/25/SL/027	From Leaf to Cup: Forces behind Tea-Based Radical Innovations in Sri Lanka	Dr. H M C G Pilapitiya, Tea Research Institute of Sri Lanka
15:35 -15:50	IST/25/IN/013	The Paradox of Organic and Sustainable Certifications in Nepalese Orthodox Tea: Do Producers Truly Benefit?	Dr. G Luitel, Tribhuvan University
15:50 -16:05	IST/25/SL/004	Sustaining Competitive Advantage in the Tea Industry: A Case Study on Innovation, Quality Management, and Operational Efficiency in XYZ Tea Company	Ms. H R D A Priyantha, University of Peradeniya
16:05 -16:20	IST/25/SL/043	Factors Influencing the Ceylon Tea Export Market Share in East Asian Countries	Ms. B S D Perera, Uva Wellassa University of Sri Lanka



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Plenary Speech 2

Date: 11th November 2025 (Day 2)

Time: 08:30-08:50

Moderator: Prof Saliya De Silva

Speaker: Mr. James Mackey, Sustainability and Technology Lead, Pepsi Lipton, United Kingdom

Title of the Presentation: The Future of Tea

Technical Session 4 - Gender, Society and Tea

Number of Presentations - 05

Date: 11th November 2025 (Day 2)

Time: 08:50 - 10:05

Chairperson: Prof. Saliya De Silva

Session coordinator: Dr. C J Liyanaarachchi

Rapporteurs: Ms. Suranima Senarath and Ms. P U N E Srimali

Time	Manuscript ID	Title	Presenter
08:50 - 09:05	IST/25/SL/022	In the Shadows of Ceylon Tea; Post-Colonial Feminist Analysis on Intimate Partner Violence and Access to Justice Among Malaiyaha Tamil Women in Sri Lanka's Tea Plantations	Ms. K M N T Konara, General Sir John Kotelawala Defence University
09:05 - 09:20	IST/25/SL/050	Analysis of Factors Influencing the Transformation from Conventional to Organic Tea Farming in the Uva High Grown Region	Mr. K A W T H Vijesooriya, Uva Wellassa University of Sri Lanka
09:20 - 09:35	IST/25/SL/059	The Adoption of Innovative Mechanization Technologies in Corporate Sector Tea Plantations in Sri Lanka: A Case of Mechanized Harvesting	Dr. T G N Mahinda, Tea Research Institute of Sri Lanka
09:35 - 09:50	IST/25/SL/058	An Investigation of Planters Insights for Alternative Worker Deployment Models of Tea Plantations in Sri Lanka	Ms. K W N Nadeeshani, Tea Research Institute of Sri Lanka
09:50 - 10:05	IST/25/SL/036	Effect of Incentives on the Collective Action of Farmer Organizations: A Case Study of Tea Smallholding Development Societies in Sri Lanka	Dr. K G J P Mahindapala, Tea Research Institute of Sri Lanka



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Plenary Speech 3

Date: 11th November 2025 (Day 2)

Time: 10:35-10:55

Moderator: Dr. M A B Ranatunga

Speaker: Mr. Martin Short, Chief Executive Officer, Ethical Tea Partnership, United Kingdom

Title of the Presentation: Perspective of Sustainability of the Global Tea Industry

Technical Session 5 - Innovative Approaches in Sustainable Crop Protection

Number of Presentations – 04 (Day 2)

Date: 11th November 2025

Time: 10:55 - 11:55

Chairperson: Dr. N. S. Aratchige

Session coordinator: Mrs. D G N P Karunajeewa

Rapporteurs: Dr. P L K Tennakoon and Ms. T M I D Thennakoon

Time	Manuscript ID	Title	Presenter
10:55 - 11:10	IST/25/IN/042	Insecticide Resistance Status of Tea Looper (<i>Hyposidra talaca</i>) in Northeast India's Tea Ecosystems and its Probable Resistance Mechanism	Dr. S M Roy, Tocklai Tea Research Association
11:10 - 11:25	IST/25/SL/053	Biochemical Correlates of Shot-Hole Borer (<i>Euwallacea fornicates</i>) Resistance in Uva Tea Cultivars with a Focus on Polyphenols, Catechins and Caffeine	Ms. S P R Wijewardhana, Tea Research Institute of Sri Lanka
11:25 - 11:40	IST/25/IN/025	Non-conventional Management Strategies of Live-Wood-Eating Termite in Tea Plantations in North-East India	Mr. M Debrishi, Raiganj University
11:40 - 11:55	IST/25/SL/049	Endophytic Fungi from Tea Cultivars: Identification and in vitro Antagonism Against <i>Fusarium ambrosium</i> , a Symbiont of Shot Hole Borer (<i>Euwallacea fornicates</i>)	Dr. G D Sinniah, University of Sri Jayewardenepura



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Technical Session 6 - Climate Resilience and Crop Sustainability

Number of Presentations – 04 (Day 2)

Date: 11th November 2025

Time: 11:55 - 12:55

Chairperson: Prof. Saman Dharmakeerthi

Session coordinator: Mrs. W M S Weerawardena

Rapporteurs: Mr. M A Chamindra and Mr. A K Mudalige

Time	Manuscript ID	Title	Presenter
11:55 - 12:10	IST/25/SL/052	Quantity- Intensity Relationship of Potassium and Magnesium in Tea Growing Soils of the Low-Country in Sri Lanka	Dr. L R M C Liyanage, Tea Research Institute of Sri Lanka
12:10 - 12:25	IST/25/SL/057	Design and Development of an End Effector for an Unmanned Tea Harvesting System	Prof. A J Mohotti, University of Peradeniya, Sri Lanka
12:25 - 12:40	IST/25/SL/060	The Trends in Climate and Determination of Climate-Yield Relationships in Different Tea-Growing Regions of Sri Lanka During the Period from 2010 to 2024	Prof. W A J M De Costa, Tea Research Institute of Sri Lanka
12:40 - 12:55	IST/25/SL/069	Nutrient Losses Through Surface Runoff in Different Soil Conservation Practices in Mid Elevation Tea Lands in Sri Lanka	Dr. L A S P Jayasinghe, Tea Research Institute of Sri Lanka

Plenary Speech 4

Date: 11th November 2025 (Day 2)

Time: 12:55-13:55

Moderator: Dr. Sarath Samaraweera

Speaker: Ms. Gundega Silniece, Head of Latvia Tea Association, Latvia

Title of the Presentation: Capitalizing on Europe's Affluent Tea Demand: A Strategic Roadmap for Sri Lanka's Premium Tea Market& Tourism



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Plenary Speech 5

Date: 11th November 2025 (Day 2)

Time: 14:00-14:20

Moderator: Dr. L.N.A.C. Jayawardena

Speaker: Dr. Sharon Hall

Title of the Presentation: Chief Executive, UK Tea & Infusions Association, United Kingdom

Technical Session 7 - Technology Transfer in Tea

Number of Presentations – 05 (Day 2)

Date: 11th November 2025

Time: 14:20 – 15:35

Chairperson: Dr. L.N.A.C. Jayawardena

Session coordinator: Mrs. M A H Nishanthi

Rapporteurs: Mr. G.S. Pradeep and Ms. Nimanthika Wijerathne

Time	Manuscript ID	Title	Presenter
14:20 - 14:35	IST/25/SL/024	Cultivating Innovation: Influence of Social Capital and Extension Services on Technology Adoption among Sri Lankan Tea Smallholdings	Dr. A L R U Kumara, Tea Research Institute of Sri Lanka
14:35 - 14:50	IST/25/SL/046	Evaluating the Effectiveness of the Digital Farm Field School Extension Approach for Technology Dissemination for Tea Smallholdings in Kandy District in Sri Lanka	Dr. M K S L D Amarathunga, Uva Wellassa University of Sri Lanka
14:50 - 15:05	IST/25/SL/054	Bringing Tea Technology to the Farmer Doorstep: Participant's Perception on the Effectiveness of Mobile Crop Clinic Approach in the Low Country Tea Growing Region of Sri Lanka	Mr. C E Munasinghe, Tea Research Institute of Sri Lanka
15:05 - 15:20	IST/25/SL/038	Effectiveness of Advisory Videos in Educating Tea Smallholders in the Mid-Country and Uva Regions in Sri Lanka	Mr. M Anukoolan, University of Peradeniya
15:20 - 15:35	IST/25/SL/018	Managers' Perception on Crop Productivity and Training Needs of State-Managed and Regional Plantation Company Tea Estates in Mid-Country, Sri Lanka	Mr. K R W B Kahandawa, Tea Research Institute of Sri Lanka

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Poster Session

Session coordinator - Dr. S R W Pathiranage

Rapporteurs: Mrs. M A H Nishanthi and Ms. R. Jeevika

Poster evaluation time: Day 1: 16:45 - 17:45

Venue: Lobby of the Oak Room, Cinnamon Grand, Colombo

No	Manuscript ID	Title	Presenter
1	IST/25/SL/034	Differentiation Between Organically and Conventionally-Grown Tea Using Nitrogen Isotope	Ms. B A T Amalka
2	IST/25/IN/063	Drum-Type Scenting Machine for Jasmine Tea: Design and Performance Evaluation	Dr. Bi Haijun, Anhui Agricultural University
3	IST/25/IN/062	Optimizing Oolong Tea Processing Parameters for DT1 Tea Cultivar in Sri Lanka	Ms. W C P Gunarathna, Tea Research Institute of Sri Lanka
4	IST/25/IN/065	Heat driven β -lactoglobulin-theaflavin conjugates exhibit superior antioxidant potential and digestive	Prof. Wang Yijun, Anhui Agricultural University
5	IST/25/SL/051	Assessing the Effectiveness of the Public-Private Producer Partnership + Society (4PS) Oriented Model in Enhancing the Level of Adoption of Good Agricultural Practices (GAPs) of Tea Smallholders: A Case Study in Ratnapura District	Ms. A M A M Adikaram Uva Wellassa University of Sri Lanka
6	IST/25/IN/066	Sensomics-Assisted Characterization of Key Flowery Aroma Compounds in Lu'an Guapian Green Tea Infusion and Their Dynamic Changes during Processing	Prof. Xiaoting Zhai, Anhui Agricultural University
7	IST/25/SL/070	Effect of Nursery Bed type for Tea (<i>Camellia sinensis</i> (L) O. Kuntze) Nursery Plants in Low Altitude Regions of Sri Lanka	Ms. T G O N Gunawardhane, Tea Research Institute of Sri Lanka
8	IST/25/SL/072	Efficacy of combined applications of chlorantraniliprole 0.4% GR and <i>Metarhizium</i> sp. against white grubs in tea plantations	Mr. P A D S Sumathipala, Tea Research Institute of Sri Lanka
9	IST/25/SL/067	Performance Evaluation of a Batch-Type Electric Dryer for Artisanal Tea Production in Sri Lanka	Mr. U G D P Ranathunga, Tea Research Institute of Sri Lanka
10	IST/25/SL/041	Image Processing Algorithm to Estimate Tea Concentration for a Perfect Sip	Ms. V T Liyanage, University of Ruhuna



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No	Manuscript ID	Title	Presenter
11	IST/25/IN/064	Post-Harvest UV-B Radiation Improves Flavor Quality of White and Green Teas	Prof. Liu Linlin , Anhui Agricultural University
12	IST/25/SL/047	Tea Plant Nursery Certification in Sri Lanka: Current Challenges and Way Forward	Ms. R F Hafeel, Ministry of Plantation and Community Infrastructure, Sri Lanka
13	IST/25/SL/071	Blister Blight Control in Tea Using Nano Copper Sulphate Pentahydrate	Ms. D G N P Karunajeewa, Tea Research Institute of Sri Lanka
14	IST/25/SL/068	Multi Tray Self Cleaning Sifter for Grading Low Grown Teas	Mr. M A Chamindra, Tea Research Institute of Sri Lanka