

Pest and Sanitation Management in Stored Tobacco (PSMST) Sub-Group Report

CORESTA Congress Online

12 October – 12 November 2020

Presented by Elliot Bartholomew (Alliance One International) on behalf of PSMST





- History
- Infestation Control Conference
- Sub-Group Meeting
- Sub-Group Activities



History

- Sub-Group on Pest & Sanitation Management in Stored Tobacco
 - ➤ Formed in 1991 to investigate growing concerns over rumored failed phosphine fumigations
 - Established new worldwide tobacco fumigation standard
 - Currently comprised of members from 21 organizations (Manufacturers of tobacco products, Leaf processors, Leaf companies, Pest control services, Entities focusing on education and research)



History

Purpose

> Assist the tobacco industry in combating post-harvest tobacco pests:

cigarette beetle and tobacco moth







History

Sub-Group Objectives

- Educate and promote best Integrated Pest Management practices for post-harvested tobacco world-wide
- Conduct collaborative studies on pest control and sanitation practices for post-harvested tobacco
- Investigate new technologies and issues related to infestation control in post-harvested tobacco



- Manila, PHILIPPINES
- 7-8 October 2019
- 100 attendees(29 % Tobacco Industry,47 % Pest Control Industry,3 % Scientific / Regulatory)













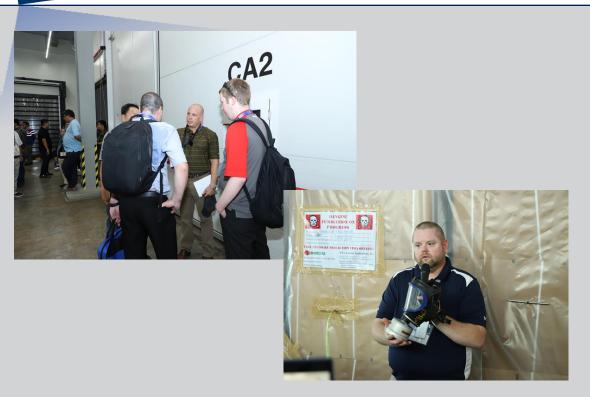
- General Pest Control in Tobacco Facilities
- Post-Harvest Tobacco Pest
 Control Biology, Sanitation,
 Monitoring, Fumigation,
 Temperature, Controlled
 Atmosphere, Prevention











- Demonstrations at JTI:
 Fumigation (tarp/stack & container), Controlled
 Atmosphere & Freezing
- > Application Exercise
- > Q&A















Infestation Control Conference

- 2001 Richmond, USA
- 2002 Izmir, TURKEY
- 2002 Puerto Vallarta, MEXICO
- > 2002 Santa Cruz do Sul, BRAZIL
- 2003 Antwerp, BELGIUM
- > 2004 Stellenbosch, SOUTH AFRICA
- 2005 Chennai, INDIA
- 2006 Izmir, TURKEY
- > 2007 Antwerp, BELGIUM
- 2008 Chiang Mai, THAILAND

- 2009 Porto Alegre, BRAZIL
- > 2010 Kunming, CHINA
- 2011 Cape Town, SOUTH AFRICA
- 2012 San Juan, PUERTO RICO
- 2013 Surabaya, INDONESIA
- 2014 Bangalore, INDIA
- > 2015 Lilongwe, MALAWI
- > 2017 Santa Cruz do Sul, BRAZIL
- > 2018 Winston-Salem, USA
- 2019 Manila, PHILIPPINES
- 2021 Izmir, Turkey?



Sub-Group Meeting

- ICC Evaluation
- Phosphine
 - EU and US regulatory updates
 - Cigarette Beetle mortality curve (Dr. Spencer Walse Agricultural Research Service USDA)
 - Use of different phosphine formulations
 - Fumigation parameters for resistance bred cigarette beetle strain



Sub-Group Meeting

- Phosphine resistance test kit using genetic marker
- Profume Sulfuryl fluoride fumigant
- Controlled atmosphere
 - Parameters at an additional temperature
 - Oxy-Low packed tobacco
- Budget
- > Schedule





Sub-Group Activities

Guides

- Guide 2 (Fumigation) updated with references, explanation of resistance, and calibration recommendations – August 2019
- Guide 9 (Freezing) updated with references and tempering details August 2019
- ➤ Guide No. 12 (Controlled Atmosphere) updated to include parameters 33 °C – April 2020



Sub-Group Activities

Research

- Resistance Identify genetic markers for phosphine resistance detection (Fera)
- Phosphine alternative Profume fumigation evaluation (RJRT, Douglas Products)



Sub-Group Activities



Thank you!