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

Victoria Falls, ZIMBABWE

15 October 2019
Overview

❖ Infestation Control Conference
❖ Sub-Group Meeting
❖ Sub-Group Activities
Manila - PHILIPPINES

7-8 October 2019

The Bellevue
❖ Speakers

➢ Elliot Bartholomew (Alliance One International)
➢ Hans Krampff (United Phosphorus Ltd.)
➢ René Luyten (b-Cat B.V.)
➢ Jan Oestmann (Imperial Tobacco)
➢ Vernon Schmidt (R.J. Reynolds Tobacco Company)
➢ Mauri Winegardner (Universal Leaf Tobacco Company Inc.)
➢ Herb Yeaman (Degesch America Inc.)
Day 1

➢ Why?
➢ General Pest Control in Tobacco Facilities
➢ Biology
➢ Sanitation
➢ Monitoring & Inspections
➢ Fumigation
➢ Temperature
➢ Controlled Atmosphere
➢ Prevention
Day 2

- Field Trip to JTI Storage Facility
  - Tarp Fumigation Demonstration
  - Container Fumigation Demonstration
  - Controlled Atmosphere Demonstration
  - Freezing Demonstration

- Insecticides
- Past & Current Studies
- Application Exercise
Infestation Control Conferences

- 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
Sub-Group Meeting

Day 1

- Infestation Control Conference Evaluation
- Phosphine Fumigation
  - Regulatory Update
  - Cigarette Beetle Mortality Curve (Dr. Spencer Walse – Agricultural Research Service USDA)
  - Frisin – Phosphine + CO₂
  - Fumigation Parameters for the Control of MLY Strain
  - Phosphine Resistance Detection – Genetic Markers
Day 2

- CO₂ Treatments
- ProFume – sulfuryl fluoride
- Controlled Atmosphere – New Temperature Parameter
- Oxy-Low
- Budget
- Schedule
Sub-Group Activities

❖ Research

➢ Resistance – Parameters needed to kill all life stages of positively identified strong resistant cigarette beetle strain (Japan Tobacco)
➢ Resistance – Identify genetic markers for phosphine resistance detection (Fera)
➢ Low oxygen – Evaluation of low oxygen packing (BAT, Oxy-Low)
➢ Phosphine alternative – Profume fumigation evaluation (RJRT, Douglas Products)
Sub-Group Activities

❖ Updated
  ➢ Guide 2
  ➢ Guide 9
  ➢ Guide 12

❖ Educational materials
  ➢ Update ICC presentations
Sub-Group Activities

Questions