



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

Kunming, CHINA

26 October 2018



- ❖ **Infestation Control Conference**
- ❖ **Sub-Group Meeting**
- ❖ **Sub-Group Activities**



- ❖ **Winston-Salem - USA**
- ❖ **7-8 May 2018**
- ❖ **99 attendees (58% Tobacco Industry, 37% Pest Control Industry, 5% Scientific / Regulatory)**







❖ Day 1

- **General Pest Control in Tobacco Facilities (Guest speakers: Scott McNeely & Frank Fowler – McNeely Pest Control)**
- **Post-Harvest Tobacco Pest Control – Biology, Sanitation, Monitoring, Fumigation, Temperature, Controlled Atmosphere, Prevention (Presented by Sub-Group members)**



❖ Day 2

- Fumigation (tarp & warehouse), Insecticide Netting & Controlled Atmosphere demonstrations (RJ Reynolds Tobacco Company)
- Phosphine Resistance (Guest speaker: Dr. Spencer Walse – Agricultural Research Service USDA)



❖ Feedback

- Demonstrations on controlled atmosphere and insecticide netting, as well as fumigation, were considered valued additions to the ICC.
- Positive reception of guest speakers
- Some presentations too long





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 – PHILIPPINES

❖ Day 1

- Phosphine resistance (lethal parameters, detection)
- Fumigation monitoring
- Guest speakers
 - Dr. Spencer Walse – Agricultural Research Service USDA
 - Dr. Tom Phillips – University of Kansas



Sub-Group Meeting



❖ Day 2

- Profume – Sulfuryl fluoride fumigant
- Oxy-Low – low oxygen packing
- Controlled atmosphere – impact of high humidity
- ICC evaluation
- 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)
- Monitoring – Evaluation of wireless gas monitoring equipment (Degesch America)
- Phosphine alternative – Profume fumigation evaluation (RJRT, Douglas Products)



Sub-Group Activities

❖ Updates to Guides

- **Guide 2 – add tolerance / resistance footnote and proceed with approval**
- **Guide 9 – add tempering and calibration information and proceed with approval**
- **Guide 12 – discuss adjustment to parameters and proceed with approval**

❖ Educational materials

- **Update ICC presentations**



Questions