



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

**Victoria Falls, ZIMBABWE**

**15 October 2019**



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



# ICC 2019

- ❖ **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 + CO<sub>2</sub>
  - Fumigation Parameters for the Control of MLY Strain
  - Phosphine Resistance Detection – Genetic Markers





# Sub-Group Meeting

## ❖ Day 2

- **CO<sub>2</sub> Treatments**
- **ProFume – sulfuryl flouride**
- **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