



Pest and Sanitation Management in Stored Tobacco (PSMST) Sub-Group Report 2017

Santa Cruz do Sul, BRAZIL

26 October 2017



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



- ❖ **Santa Cruz do Sul**
- ❖ **8-9 May 2017**
- ❖ **76 attendees (most from the region but some from India, Turkey and Colombia)**





ICC 2017





Source: Afubra / ITGA (tons)



❖ Day 1

- **Guest speaker (Iro Schünke – President Sinditabaco – Importance of Tobacco in Brazil)**
- **Oral presentations (Biology, Sanitation, Monitoring, Fumigation)**



❖ Day 2

- Fumigation demonstration (BAT/Souza Cruz)
- Oral presentations (Temperature, Controlled Atmosphere, Re-Infestation, Research, Application Exercise)



ICC 2017



❖ Feedback

- Spend less time on fumigation (most regions of the world we need to spend more time on fumigation)
- Spend more time on novel control measures
- Excellent fumigation demonstration
- Consider translation





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

❖ Day 1

- ICC evaluation
- Phosphine resistance
- CORESTA Guide updates (Freezing, Fumigation, (Controlled Atmosphere)
- Yellow residue
- Narcosis
- Alternative fumigants



Sub-Group Meeting



❖ Day 2

- Budget and schedules
- Guest speaker (Andreas Kohler – University of Santa Cruz do Sul – Biological Control Using Parasitoid Wasps)
- University tour



Sub-Group Activities

❖ Phosphine Fumigation

- Resistance – Parameters needed to kill all life stages of positively identified strong resistant cigarette beetle strain (Japan Tobacco)
- Yellow residue – Reproduce conditions to create residue for chemical identification and smoke chemistry (Imperial Tobacco, ITC)
- Narcosis – Position paper complete but awaiting input from USDA fumigation expert (PSMST)
- Monitoring – Evaluating wireless gas monitoring equipment (Degesch America, Eco2)



Sub-Group Activities

❖ Phosphine Alternatives

- **Controlled Atmosphere – Designing study to confirm Guide 12 parameters and investigate new parameters factoring in RH (PSMST, Fera)**
- **Sulfuryl fluoride – Study investigating gas penetration, beetle mortality, residue analysis, effects on tobacco (Reynolds American)**



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