Integrated apple production: past, present and future.

C. Ioriatti
IOBC-WPRS WG Integrated Protection of Fruit Crops

IOBC

www.iobc-wprs.org
Past:

*From the initial aim to expand biological control within the IPM to the comprehensive concept of integrated fruit production*
Present:

<table>
<thead>
<tr>
<th>Year</th>
<th>Locality</th>
<th>Country</th>
<th>Local Organizers</th>
<th>Participants</th>
<th>Represented Countries</th>
<th>Presentations</th>
<th>Proceedings IOBC/wprs Bulletin</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>Vienna</td>
<td>Austria</td>
<td>Christa Lethmayer, Fritz Polesny</td>
<td>61</td>
<td>21</td>
<td>38, 15</td>
<td>vol 112 (2016)</td>
</tr>
<tr>
<td>2016</td>
<td>Thessaloniki</td>
<td>Greece</td>
<td>Petros Damos</td>
<td>129</td>
<td>23</td>
<td>72, 53</td>
<td>vol 123 (2017)</td>
</tr>
<tr>
<td>2017</td>
<td>Jurmala</td>
<td>Latvia</td>
<td>Regina Rancane</td>
<td>45</td>
<td>19</td>
<td>30, 15</td>
<td>in preparation</td>
</tr>
</tbody>
</table>

Invasive species (SWD, BMSB); (classical) biological control & conservation BC; semiochemicals control-tools, modelling, organic production, climate change, apple phenology, ontogenic resistance, disease management
Present:

The WG and SG convenors (from left side): Petros Damos, Claudio Ioriatti, Lucía-Adriana Escudero-Colomar, Christian Linder and Arne Stensvand.

The new convenor of the SG “Pome fruit arthropods” Tim Belien.
Next meetings:

- 2018 Soft fruits: (September), in Riga, Latvia

- 2019 Stone fruits SG, pome fruit arthropods SG, semiochemicals WG (January) in Lisboa, Portugal

- 2020 at Agricultural University of Plovdiv, Bulgaria

- 2020/1 (October) Girona
Future: challenges for IFP

- Climate change/increase of int. trade
  - Invasive species and emergent diseases
  - Ban to import alien species to establish classical biocontrol
- Pesticides
  - Restrictions in pesticide registration and use
  - Residue limits
- Measure of the effects on the ecosystem
  - Water and soil pollution
  - Bystander pesticide exposure
- Food grown using IPM principles is rarely labelled
- Replacement of expertise of retired applied scientists

- Lobbying at national and EU level
  - Speeding up the registration and the market introduction of environmentally safe BCAs
  - Introduction of alien beneficials after official assessment
- Sharing information with other WGs
  - Joint meetings
  - Invited key note speakers from collateral disciplines
    - Improvement in spraying technologies to reduce pesticide use
    - Agricultural techniques: modification of tree architecture.
- Labelling: integrated → sustainable?
  - Minimising water and carbon footprint
- Improve advisory services and food authorities attendance
- Increase student grants
Many thanks for your attention

Pergine - Italy 2014

Stellenbosch – South Africa 2014

Thessaloniki – Greece 2016

Vienna – Austria 2014