Session 3

International Working Group & Country Group Review

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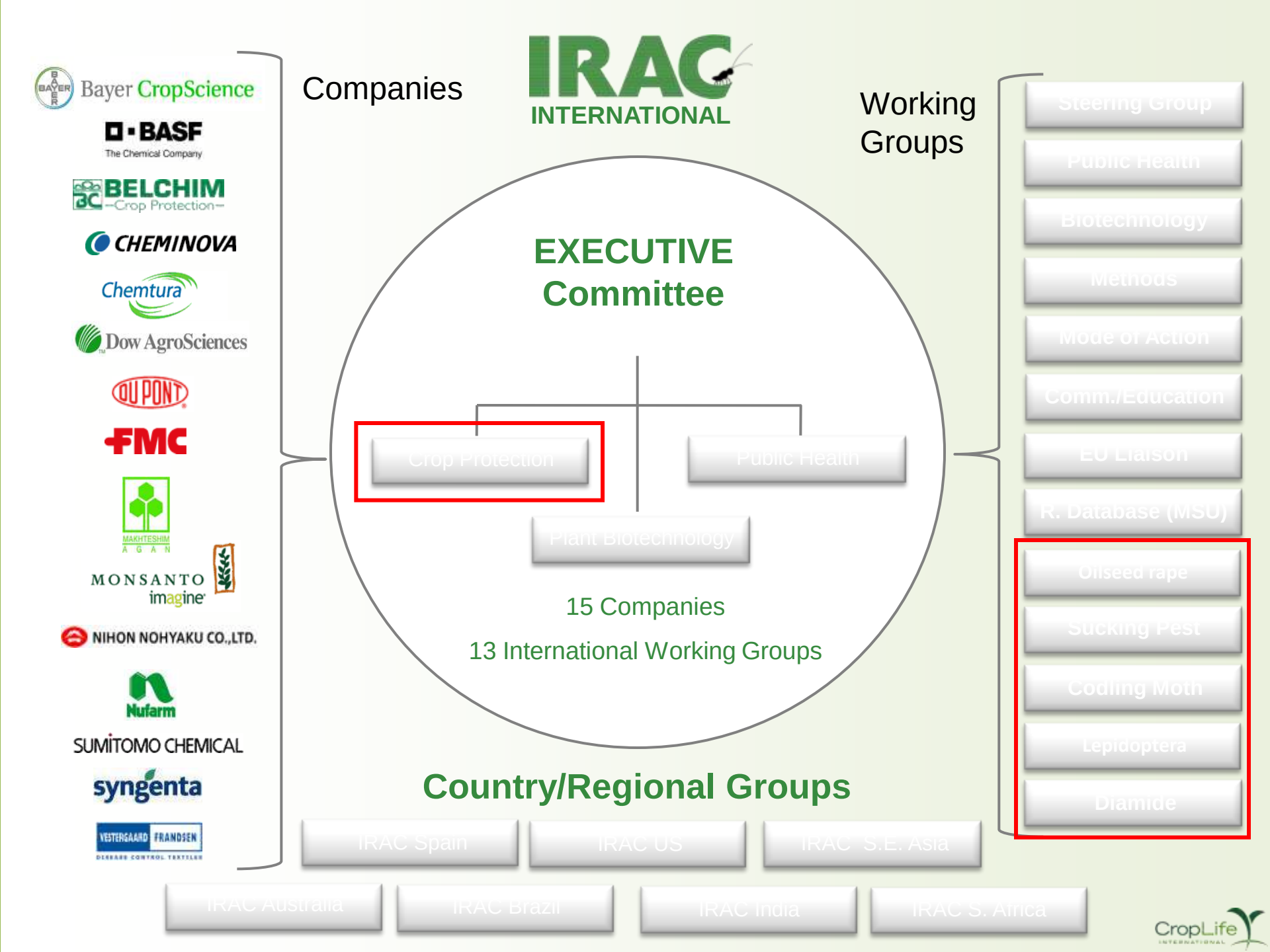
Brief Crop Protection Update & WG Intro

Ralf Nauen


Companies
IRAC
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Working Groups
Bayer CropScience
BASF
The Chemical Company
BELCHIM
Crop Protection
CHEMINOVA
Chemtura
Dow AgroSciences
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R. Database (MSU)
Oilseed rape
Sucking Pest
Codling Moth
Lepidoptera
Diamide
Country/Regional Groups
IRAC Spain
IRAC US
IRAC S.E. Asia
IRAC Australia
IRAC Brazil
IRAC India
IRAC S. Africa
CropLife
INTERNATIONAL

Oilseed rape WG

- Formed in January 2007 due to pyrethroid resistance issues
- Renamed in 2010 to address also pests other than pollen beetles
- Team leader: Russell Slater (Syngenta)

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11 members

Extending the scope

Pest	Resistance
Cabbage stem flea beetle (Psylliodes chrysocephala)	Likely
Rape stem weevil (C. napi)	No
Pollen beetle (Meligethes spp.)	**Yes**
Cabbage seedpod weevil (C. assimilis)	No
Cabbage stem weevil (C. pallidactylus)	?
Peach-potato aphid (M. persicae)	Yes
Brassica pod midge (D. brassicae)	No






Sucking Pest WG

- Formed in 2008 to address resistance issues in some of the most destructive sucking pests and to develop IRM guidelines
- In June 2009 formally merged with the Neonicotinoid WG
- Team leader: Jonathan Henen (MAI)
- 13 members

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In focus: *Myzus persicae*

Insecticide Resistance Action Committee

IRAC eConnection

Insecticide Resistance Action Committee

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About This Issue

This is a single article eConnection to advise on a developing resistance situation with neonicotinoids and *Myzus persicae* in Southern France and Northern Spain. IRAC provides some important resistance management recommendations.

Myzus persicae Resistance Alert!

Aphid monitoring surveys in peach orchards conducted by Syngenta Crop Protection and Bayer CropScience have revealed that some populations of the green peach aphid (*Myzus persicae*) in Southern France and Northern Spain have developed high levels of resistance to neonicotinoid insecticides. The neonicotinoid class of insecticides includes the active ingredients; acetamiprid, imidacloprid, thiacloprid and thiamethoxam (IRAC MoA Group 4A), which are currently registered for the control of aphids in European stone fruit.

Although low level tolerance to neonicotinoids in green peach aphids has been reported for some time, these are the first cases of high levels of resistance affecting aphid control. Highly resistant samples of aphids have been identified in several peach orchards in the Languedoc-Roussillon, Provence-Alpes-Cote d'Azur and Rhone-Alpes regions of France as well as in the Catalonia region of Spain. The monitoring surveys have yet to identify any resistant aphids in other crops.

The management of neonicotinoid resistant green peach aphids in peach and other stone fruit crops is further complicated by the presence of pyrethroid and carbamate resistant aphids in the same regions. The IRAC Sucking Pest Working Group recommends that growers in affected regions do not use insecticides that are affected by resistance*. It is recommended that control of pre-flowering pests in these regions is managed with mineral oils. The post-flowering use of neonicotinoid insecticides when green peach aphids are present in the crop should also be avoided to prevent the further spread and intensification of resistance. It is recommended to use aphicides of mode of action classes locally not affected by resistance* in order to prevent the further spread and intensification of resistance in aphids on stone fruits and on other host crops.

In 2011, the IRAC Sucking Pest Working Group will continue to monitor the distribution and impact of resistant aphids, whilst working with local experts to develop practical pest and resistance management strategies.

*Consult local advisors for advice on which aphicides are affected by resistance in your locality.

** See IRAC poster on *Myzus persicae* resistance management

Neonicotinoid resistance hot spots in France and Spain

Codling Moth WG

- **One of IRAC´s most traditional WG´s**
  - Sustainable control of codling moth in apple orchards by providing educational material, monitoring methods and proper IRM guidelines

- **Team leader: Matthias Haas (Bayer CropScience)**

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12 members *(8 members in 2008)*

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Lepidoptera WG

- **Formed in Dec 2009**
  - Lepidopteran larvae are serious pests in many agronomic cropping systems worldwide and resistance to many chemical classes of insecticides is present. The WG will provide educational and communication material as well as IRM tactics on key lepidopteran pests of global importance

- **Team leader: Sybille Lamprecht (BCS)**

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8 members (4 companies)

Focus on *Tuta absoluta*

- Poster (>200 downloads!)
- Bioassay method
- Video
- Brochure
- Symposium

Diamide WG

- **Formed in January 2008**
  - Development of a global IRM strategy for Group 28 insecticides (ryanodine receptor modulators) *from the scratch*, thus proactively preventing (delaying) the evolution of resistance
  - Since 2009 several regional and sub-teams established; very active group!

- **Team leader: Veronica Companys (BCS)**

14 members

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Focus on IRM recommendations

IRAC booth at Intl. DBM Workshop (Diamide/Lep WG)