



Insecticide Resistance Action Committee

48th Meeting IRAC International (2013)

Session 2 - IRAC International, Working Groups & Guest Presentations

Syngenta International Research Centre
Jealott's Hill, Bracknell, UK March 18-22



Antitrust Law Reminder

ANTITRUST LAW REMINDER **for all CropLife International meetings**

While some activities among competitors are both legal and beneficial to the industry, group activities of competitors are inherently suspect under the antitrust laws. Agreements or combinations between or among competitors need not be formal to raise questions under antitrust laws, but may include any kind of understanding, formal or informal, secretive or public, under which each of the participants can reasonably expect that another will follow a particular course of action.

Each of you is responsible to see that topics, which may give an appearance of an agreement that would violate the antitrust laws, are not discussed at your meetings. It is the responsibility of each participant in the first instance to avoid raising improper subjects for discussion. This reminder has been prepared to assure that participants in meetings are aware of this obligation.

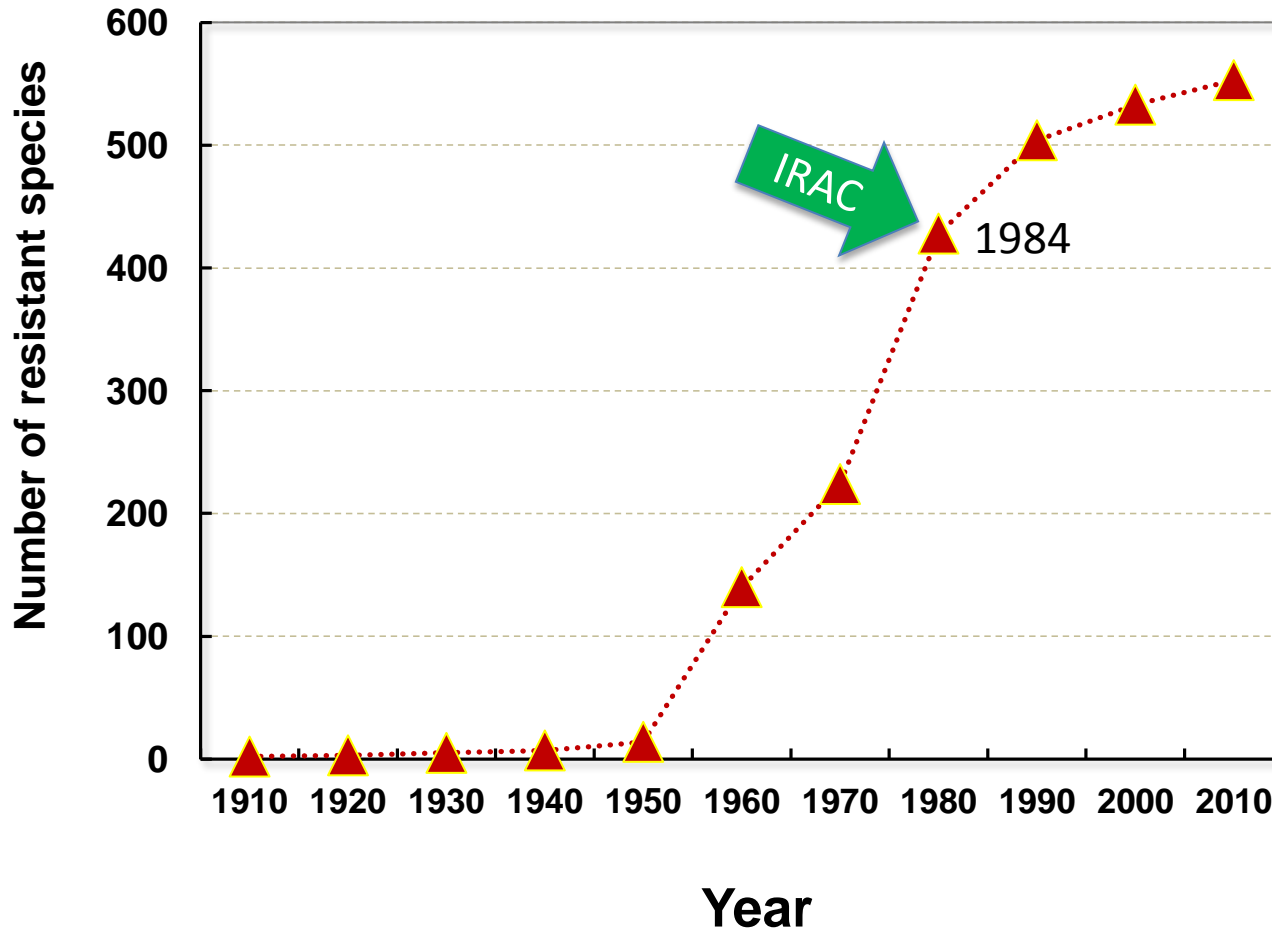
A warm welcome: Syngenta Jealott's Hill



A unique Syngenta formulation robot has been officially launched by HRH The Princess Royal. The princess carried out the first experiments when she visited the company's Jealott's Hill R&D site in Berkshire last week.



Insecticide resistance on the move*



553
(2011)



*Denholm, Devine & Williamson (2002) Science 297, 2222

IRAC – early days

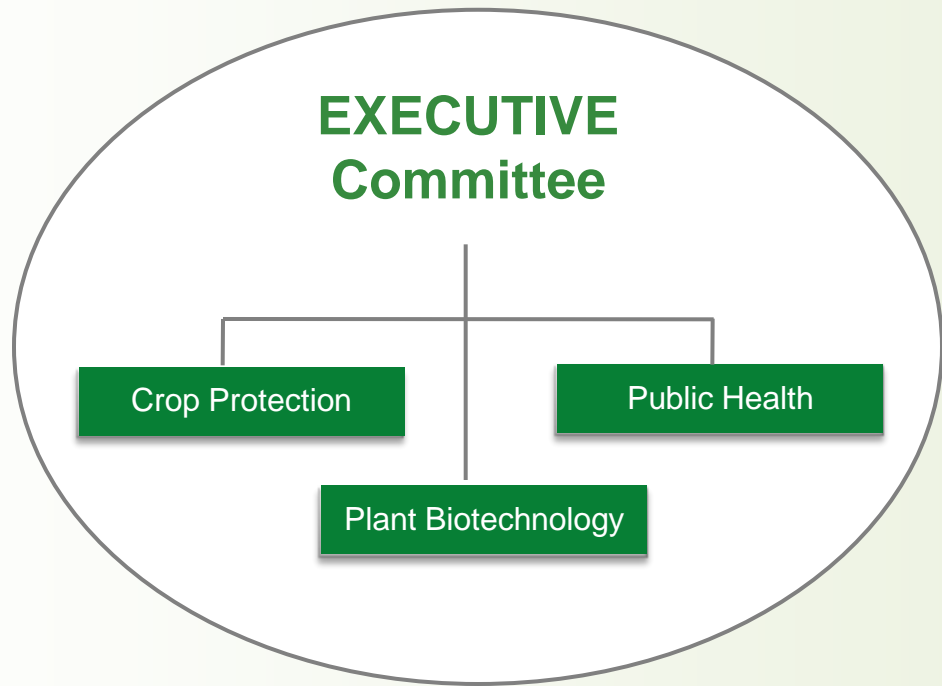
The first „IRAC“ Meeting
was held in Brussels on
March 13th, 1984 and
hosted by GIFAP*

Inaugural meeting of IRAC
on May 12th, 1984 with 6
members:

Voss / Ciba Geigy (Chair)
Lindley / Cyanamide
Cronin / FMC
Davies / ICI
Knauf / Hoechst
Zoebelein / Bayer



*Groupement International des Associations Nationales de Fabricants de Produits Agrochimiques [*International Group of National Associations of Manufacturers of Agrochemical Products*]



- Steering Group
- Public Health
- Biotechnology
- Methods
- Mode of Action
- Comm./Education
- R. Database (MSU)
- Coleoptera
- Sucking Pest
- Lepidotpera
- Diamide

IRAC Country Groups



Acknowledgements



A big

THANK YOU

to Alan Porter, for

- Meeting Organization
- Excellent Service all year
- Reminders
- >1000 emails
- Numerous conference calls

Local organization at Jealott's Hill

Thanks to Syngenta

**and our IRAC colleagues Russell Slater
& Fergus Earley!**

But especially to Rina Gupta

- **Excellent collaboration**
- **Meeting organisation**
- **Hotel organisation**
- **Lunches & WG dinners**
- **Simply everything**

Some further thanks

To You - as always!

For your commitment and continued support for IRAC
For your time and effort to be here this week
For the substantial amount of pre-work

To Syngenta

For advice, local arrangements and hosting the meeting

To CropLife Intl.

Particularly Keith Jones, Susanne Maise and staff

To your companies

For continuing to support IRAC
For funding your travel and attendance here

A special welcome to our guests

Keith Jones

Martin Williamson

Chris Bass

Mark Paine

Ian Denholm

Pablo Bielza

Michael Kristensen

Steve Foster

CropLife Intl

Rothamsted Research

Rothamsted Research

LSTM

Rothamsted Research

University of Cartagena

Aarhus University

Rothamsted Research

Housekeeping

- Follow Russell in case of fire alarm
- Full day with many presentations – please try and stick to the allocated time slot as per the agenda as much as possible.
- All speakers would appreciate to have your full attention, so please try to check emails and phone calls during coffee/lunch break
- Refreshments will be supplied morning (10.30h) and afternoon (15.30h)
- A buffet lunch with refreshments will be set up at approximately 12:30h
- Before lunch we will take a group photograph (12.15h)
- The afternoon session will start at 13:30h. Please return promptly
- The meeting is scheduled to finish at 17:30h
- The day will be closed by a tour of Jealott's Hill followed by a reception and hot buffet in the Elements Building
- Coach will depart at JH at 20.30h

Agenda Session 2 (Version 2.6, 8-Mar-2013)

- 0900 Introduction, antitrust reminder and housekeeping {RN}
- 0915 Overview of CropLife International Stewardship Committee activities {Keith Jones}
- 0930 Crop Working Groups
 - Coleoptera {RS}, Sucking Pests {SS}, Lepidoptera {JD}, Diamides {RS}
- 1030 Coffee/Tea**
- 1045 Public Health {MH}
- 1100 Biotech {TD}
- 1115 Methods {LM}
- 1130 MOA {TS}
- 1145 Resistance Database {BH}
- 1200 Communication/Education {AP}
- 1215 Group Photograph
- 1230 Lunch**



Agenda Session 2 (Version 2.6, 8-Mar-2013) Scientific Session

- 1330 Ian Denholm (Rothamsted, UK): The dynamics of insecticide resistance and its implications for IRM.
How insecticide resistance develops and how can it be managed effectively, whilst still providing economic benefits for the grower and chemistry manufacturer.
- 1400 Martin Williamson & Chris Bass (Rothamsted, UK): Mechanisms of insecticide resistance. Historical and more recent developments in target site resistance to insecticides.
- 1430 Mark Paine (LSTM, UK): Metabolic resistance mechanisms.
How metabolic resistance mechanisms vary amongst mosquito species and how this leads to variations in resistance levels amongst insecticides from the same and different chemistries.
- 1500 Michael Kristensen (Aarhus University, Denmark): Insecticide resistance in *Musca domestica* and status of the housefly genome project
- 1530 Coffee/Tea**
- 1545 Tim Dennehy (Bayer CropScience): – Plant Biotechnology IRM
- 1615 Steve Foster/Ian Denholm (Rothamsted, UK): Updated on the work of the IRAG-UK
- 1645 Discussion
- 1730 Close