



Future prospects for chemical insecticides: A symposium for Michael Elliott

Thursday 21 January 2010
Rothamsted Research, UK

Organised by SCI's Bioresources Group



09.30 Registration and refreshments

Morning session

Chair: Prof John Pickett, Rothamsted Research

09.55 **The legacy of Michael Elliott: seminal discoveries in insecticide chemistry**

Prof John Casida, University of California - Berkeley, USA

11.00 Refreshment break

11.30 **Insecticide resistance – mechanisms and solutions**

Prof Lin Field, Rothamsted Research, UK

12.10 **Insecticides in environmental health and vector control – history and future prospects**

Dr Nobuaki Mito, Sumitomo Chemical Co, Japan

12.50 Lunch

Afternoon session

Chair: Prof Ian Denholm, Rothamsted Research

14.00 **Trawling natural products for insecticide leads**

Prof Peter Usherwood, Nottingham University, UK

14.40 **Mode of action analysis and studies in modern crop protection research**

Dr Ulrich Ebbinghaus-Kintscher, Bayer Cropscience, UK

15.20 Refreshment break

15.40 **Novel insecticidal compounds**

Speaker to be confirmed

16.20 **Recent advances in the chemistry of insect control**

Dr Andrew Plant, Syngenta, UK

17.00 Close

Dr Tony Hooper, BBSRC

Prof John Pickett, Rothamsted Research

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synopsis

Chemistry will continue to play a pivotal role in pest management strategies to combat herbivorous pests and contribute to the doubling of world food supply required for the coming century.



What the meeting will cover

Food security can no longer be taken for granted and the importance of chemistry in delivering this is vital. Part of this challenge is to continue to make available chemistry for use in crop-protection from herbivorous pests and intervention against insect vectors of human pathogens such as malaria. Michael Elliott, inventor of the pyrethroids at Rothamsted Research (then known as Rothamsted Experimental Station), was such a chemist and this symposium demonstrates his continuing influence in new aspects of pesticide science.

The symposium will bring together scientists in the fields of chemical lead discovery, lead development, applications, environmental health, resistance management and modes of action, areas that must work synergistically to meet the challenges ahead.

Michael Elliott, CBE, DSc, FRS; 1924-2007

Michael Elliott was the principal chemist responsible for the discovery and development of modern synthetic pyrethroids. Based on the natural pyrethrins he prepared compounds with greater activity against insect pests based on steric and electronic considerations. By 1974, compounds including deltamethrin (the most active insecticide known at the time) were available with greater persistence, although still degraded by non-target microorganisms, and so suitable for agriculture. Even today the market for pyrethroids is worth over US\$500M per annum. His discoveries earned him the Queen's award for Technological Achievement twice.

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 21 January 2010 @ Rothamsted Research, UK

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