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Part 1 - Summary Project Details**Final Report**

Report Due Date:

29-Sep-00

RDC Project Number:

US40C

Project Title:
(< 15 words)Conference Travel to 9th International Congress Pesticide Conference
and World Cotton Conference 2 (1998)

Output:

People and communities

Research Program:

Best Management Practice

Part 2 - Project Contact Details

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Part 3 - Final Report Format

Summary:

This project involved a travel grant for the purpose of attendance by CRC and CRDC-supported personnel at two international congresses (IUPAC's International Congress on Pesticide Chemistry, London August 2-7, 1998 and World Cotton Congress 2 in Athens, 1998). The CRC personnel who attended included Professor Ivan Kennedy, Dr Francisco Sanchez-Bayo, and CRDC-supported post-graduate students Ms Lyndal Hugo, Mr Angus Crossan and Mr Shuo Wang. The grant of \$6,900 provided partial cover of the travel expenses involved, which was made up with other funds from the University and from personal resources. A significant impact was made at both congresses through the presentations made and there have been a number of research-related benefits to the cotton industry arising from these congresses.

Background to the project

The researchers involved are all conducting research projects on the fate of pesticides on behalf of the CRC (Kennedy and Sanchez-Bayo) or the CRDC (Hugo, Wang and Crossan). The CRDC supported a similar project for attendance at the previous International Congress on Pesticide Chemistry (Kennedy, Dr Alice Lee, Dr Lukas Van Zwieten, S. Kimber and S. Southan) which led to a number of research benefits as indicated in the Final Report US25C/US26C/US27C.

The objectives and the extent to which these have been achieved

Attendance at these Congress aimed to i) showcase the CRC's and the CRDC's research output in the area of the environmental fate and management of pesticides ii) interaction with other researchers iii) gathering of information of new techniques of laboratory and field research iv) gathering information on new pesticides. Each researcher presented a poster paper at the Congresses and an oral presentation was also made by I.R. Kennedy. One of these (F. Sanchez-Bayo, R. Ward and H. Beasley, see below) attracted a substantial cash prize in a competition for best poster at the London Congress awarded by Novartis. Contacts were also made with researchers at Guelph University (G. Stephenson and C. Hall) which have subsequently led to exchange visits and also agreement to act as PhD thesis examiners (Wang, Hugo).

Assessment of the likely impact of the results and conclusions of the research project for the cotton industry. Where possible include a statement of the costs and potential benefits to the Australian Cotton industry and future research needs

Attendance at these Congresses have had a number of beneficial outcomes. Each of the researchers was able to improve their professional skills as a result of these events and a number of cooperative arrangements have been made subsequently. It is anticipated that one of the Canadian researchers may eventually undertake study leave at the University of Sydney as a result of contacts made at the London Congress - Prof. G. Stephenson recently gave a seminar at the University of Sydney, pointing to benefits to worldwide food and fibre production from the application of pesticides, using

Prof. G. Stephenson recently gave a seminar at the University of Sydney, pointing to benefits to worldwide food and fibre production from the application of pesticides, using best management practice. Specifically, the award of the Novartis Prize of 500 pounds sterling drew attention to the research profile of the CRDC (acknowledged prominently in the presentation).

A technical summary of any other information developed as a part of the research project including discoveries in methodology, equipment design, etc.

Dr Sanchez-Bayo acquired a new interest in risk assessment for pesticides, which has become one of his strongest skills. These skills have subsequently been applied in several other CRDC projects (US49C, US50C, US51C, US66C).

A list of publications arising from the research project

Kennedy, I., Sanchez-Bayo, F., Lee, N., Beasley, H., Wang, S., Hugo, L., Crossan, A., Southan, S., Caldwell, R.A. and Baskaran, S. (2000) Cotton pesticides in perspective: minimizing their impact on produce and in riverine ecosystems. In *New Frontiers in Cotton Research*, F.M. Gillham, ed., Proceedings of the World Cotton Conference -2, Athens Greece, September 6-12, 1998, pp. 1111-1116.

Crossan, A.N. and Kennedy, I.R. (1998) Environmental protection and remediation of pesticides in cotton production. In *Abstracts 9th International Congress of Pesticide Chemistry*, 7C-034, Royal Society of Chemistry, London.

Hugo, L., Silburn, D.M., Caldwell, R.A. and Kennedy, I.R. (1998) The use of polyacrylamide in controlling rainfall induced erosion and transport of soil-borne endosulfan residues in cotton furrows. In *Abstracts 9th International Congress of Pesticide Chemistry*, 7C-036, Royal Society of Chemistry, London.