

Preface

The International Working Conference on Stored-product Protection (IWCSPP), held every four years, is the premier world forum for presentation of research results bearing on the safe storage of durable foodstuffs, of which cereal grains, pulses, and oilseeds make up the largest component. The 6th IWCSPP was held in Canberra, Australia from 17–23 April 1994, under the auspices of CSIRO (Australia's national R&D agency), the Australian Centre for International Agricultural Research (ACIAR), and the Australian grain handling and storage industry. These two volumes place on permanent record the Proceedings of the Conference.

There were over 400 participants in the Canberra conference. Apart from Australia, there were substantial contingents from Brazil, Canada, China, France, Germany, India, Indonesia, Israel, Pakistan, the Philippines, the U.K., and the USA. A further 20 countries were represented. A list of participants is given at the end of Volume 2.

The overall objective of the 6th IWCSPP was to bring participants abreast of advances in research and development on the preservation of stored durable commodities since the 5th IWCSPP, held in Bordeaux, France in 1990.

Much had happened in the four years: methyl bromide had come under a cloud; pressure from consumers and environmentalists to reduce chemical additives to foodstuffs had become more intense; that mycotoxin contamination of food and feedstuffs was a serious threat to human and animal health had gained general acceptance. Recognising these and related issues, the theme *Stored-product Protection — a Time of Challenge* was adopted for the conference. This theme was sustained by participants.

Some 250 papers were presented during the conference. These proceedings contain, in addition to most of those papers, reports of a series of workshops on specialist topics — trapping, application of inert dusts, extension and small-scale and farm storage, standards, expert systems, and appropriate storage — that were also part of the scientific program. The workshops were well supported, as was a full-day field excursion to storage facilities in part of the southern New South Wales wheatbelt close to Canberra. Further insights into the grain handling and storage systems in the east and west of Australia were gained by those delegates who participated in the pre- and postconference tours organised.

A trade exhibition held in association with the conference attracted over 30 local and transnational companies and agencies.

The Organising Committee wishes to thank all those who contributed to the success of the conference, not least the authors and presenters of what was an extremely stimulating assemblage of papers. It sincerely appreciates the financial and other assistance provided by various public and private organisations and agencies, the Permanent Committee for IWCSPP, Capital Conferences Pty Ltd and the National Convention Centre, Canberra.

My personal thanks go to all members of the Organising Committee for their efforts in making our conference an outstanding success. This success will be greatly augmented by the publication of these proceedings which, with the support of CAB International, will disseminate conference presentations and discussions to the widest international audience.

I must express my appreciation particularly to the CSIRO team led by Jane Wright, Julie Carter, and Jan van Graver for the superb arrangements they have put in place, to Gail Hawke, Nicole Rooney, and Kerry Meagher of Capital Conferences for their professional administration of the conference, and to Ed and Kerry Highley for the marvellous documentation they have provided us with, which will include timely production of the proceedings. A special thank you must go also to the participants in the industry exhibition and of course to all the speakers and other attendees who made the conference so successful. Finally, it is my pleasure to record that the 7th IWCSPP will be held in Beijing, China in 1998. Professor Jin Zuxun, President of the Nanjing University of Food Economics, and a member of the Permanent Committee, will convene a local committee to organise the conference.

B.R. Champ
Chairman
6th IWCSPP Organising Committee

6th International Working Conference on Stored-product Protection

Organising Committee

Executive Committee

Dr Bruce Champ	Coordinator, ACIAR Postharvest Research Program (Chairman)
Dr Jonathan Banks	Section Leader, CSIRO Stored Grain Research Laboratory
Mrs Julie Carter	Liaison Officer, CSIRO Stored Grain Research Laboratory
Mr Mick Catley	Senior Assistant Director, Plant Quarantine and Inspection Branch, Department of Primary Industries and Energy
Mr Jan van S. Graver	Experimental Scientist, CSIRO Stored Grain Research Laboratory
Mr Ed Highley	Communications Consultant, ACIAR Postharvest Research Program
Dr Jane Wright	Senior Research Scientist, CSIRO Stored Grain Research Laboratory

Other Members

Dr Mervyn Bengston	Chief Entomologist, Queensland Department of Primary Industries
Mr Ian Broadfoot	General Manager (Business Development), GRAINCO(Queensland)
Mr Melville Connell	General Manager, Grain Elevators Board of Victoria
Mr Tony Connon	Australian Wheat Board (Honorary Auditor)
Dr Ron Wills	Director, Australian Wheat Board Academy of Grain Technology

Session and Workshop Conveners

Sessions

Storage Engineering	Mr Jack Ford – Dr Dirk Maier
Sampling and Trapping	Mr Paul Cogan – Dr Jane Wright
Fumigation and Controlled Atmospheres	Mr Peter Annis – Dr Nick Price – Mr Colin Waterford
Grain Protectants	Dr Mervyn Bengston – Dr Larry Zettler
Grain Quality	Dr Ben Juliano – Dr Colin Wrigley
Insect Biology	Dr Jonathan Donahaye – Dr Barry Longstaff
Storage Fungi and Mycotoxins	Dr Ailsa Hocking – Dr David Miller
Integrated Commodity Management	Dr Chris Haines – Dr Geoff Norton
Quarantine and Regulatory Issues	Mr Mick Catley
Biological Control	Mr David Rees
Physical Control	Mr James Darby
Inert Dusts	Dr Jim Desmarchelier

Workshops

Trapping	Mr Paul Cogan – Dr Jane Wright
Application of Inert Dusts	Mr Alan McLaughlin
Extension and Small-scale and Farm Storage	Ms Margaret Annis
Standards	Dr Francis Fleurat-Lessard
Expert Systems	Dr Paul Flinn – Dr Barry Longstaff – Dr Lincoln Smith
Appropriate Storage	Mr Mervyn Adams