# Preface

The International Working Conference on Stored Product Protection (IWCSPP) is the most influential international conference in the field of stored-product protection. Held every four years in different countries around the world, it is now being held in Estoril, Portugal, at the Estoril Congress Centre, from 27 June to 2 July 2010, under the auspices of the Instituto de Investigação Científica Tropical and the Instituto Superior de Agronomia in Lisbon, Portugal. The idea of the conference was first discussed at an Entomological Society of America meeting in 1970, and the first conference was held in Savannah (USA) in 1974. Since then, there have been eight others: Nigeria, the USA, Israel, France, Australia, China, Great Britain, Brazil, and now the 10th IWCSPP will be held in Portugal. We expect over 300 participants from more than 40 countries, with the largest number of attendees from Portugal, Australia, China, and the USA.

Edouard Saoum, Director of the FAO, said in 1991, "We live in a paradoxical world, in which a large proportion of agricultural production is lost between the farm and the consumer, while millions of people suffer from hunger and malnutrition. These losses can be largely attributed to depredation by pests, spoilage by microorganisms, and spillage and wastage of food during handling, storage, transportation and processing."

The aim of the 10th IWCSPP is to exchange information on storage from a wide range of agricultural and economic settings, ranging from small farms to large commercial bulk storage and from tropical to temperate climates, and to present innovative solutions to storage problems that are effective, inexpensive, and environmental friendly. We hope that this conference will help to improve food availability and quality around the world.

The Proceedings of the 10th IWCSPP will be published in hard copy, CD-ROM, and online. There were 193 papers submitted, with 14 keynote addresses and 179 oral and poster presentations, as well as several workshops. The papers cover all aspects of storage and were divided into the following topics: Around the World of Stored-Product Protection; Biology, Behaviour and Detection; Engineering; Fumigation, Modified Atmospheres and Hermetic Storage; Microbiology, Mycotoxins and Food Safety; Non-Chemical Control; Residual Insecticides: Synthetic and Botanical; Integrated Pest Management; and Quarantine and Regulatory.

An Exhibition salon has attracted several international companies to present their products and field trips to grain storage and processing facilities have been organized for the last day of the conference.

The Organizing Committee wishes to thank all those who have contributed to the success of the conference: authors, presenters, and participants. This conference was made possible by the generous financial and organizational support provided by public and private organizations, and the Permanent Committee of the IWCSPP.

The Organizing Committee is also grateful to all the members of the Scientific Program Committee and Editors of the proceedings for the very hard work of selecting the themes, choosing the key-note speakers, and editing the conference papers, and to the Julius Kühn-Institut for the support and publication of the book, CD-ROM, and webpage. This conference promises to be a great success due to their invaluable contributions.

My personal thanks go to the members of the Organizing Committee for their efforts in making our conference a success, with particular consideration to Mrs. Conceição Roncon from Congressos & Incentivos, Estoril, Portugal. A special word of thanks goes to Noel White, Colin Demianyk, and Duangsamorn Suthisut in Winnipeg, Canada, they worked many long hours correcting the manuscripts that make up these proceedings, and without their help, these proceedings would not have been possible.

And last but not least, on behalf the Organising Committee, I wish to express our deep gratitude to the Chair of the Scientific Program Committee, Paul Fields, Winnipeg, Canada, for his extraordinary dedication to achieve the highest scientific quality for this conference.

Obrigado!

Maria Otilia Carvalho Chair, 10th IWCSPP Organizing Committee 27. April 2010



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# 10th International Working Conference on Stored Product Protection

Estoril, Portugal 27 June- 2 July 2010

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5	1990	Bordeaux, France	401	50	2065	100
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For the Proceedings of the 7th IWCSPP held in Beijing, China, 1998, contact: Guo Daolin Chengdu Grain Storage Research Institute State Grain Administration (CSR) No. 95 Huapaifang Street Chengdu, Sichuan, 610031 P. R. China caf20088th@yahoo.com.cn Tel: 86-28-87660408 Fax: 86-28-87661523

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