

## **Book Review**

**Proceedings of the Third International Seminar on Fire and Explosion Hazards, by D. Bradley, D. Drysdale and G. Makhviladze; 943 pages; ISBN-1-901-902-17-2001; £ 50.00/ € 85.00.**

This book, *The Proceedings of the Third International Seminar on Fire and Explosion Hazards*, is a collection of conference papers of interest to fire professionals who are dealing with complex problems of fire and explosion hazards.

Advances in combustion science are important in implementing engineering performance-based fire codes through Fire Safety Engineering. In this book, application of these advances and further encouragement of research to prevent and mitigate the adverse effects of fire are described. The 'fire' part is of particular use to the local industry dealing with 'technology transfer'.

There are 7 invited lectures and 88 papers written by leading researchers and international experts from 18 countries. Papers presented are grouped under the headings:

- Fires in enclosures, critical phenomena
- Fire in enclosures, zone modeling, CFD modeling
- Flame spread, pool fires, fire plumes
- Ignition, thermal explosion
- Flammability limits, fire suppression
- Combustion of disperse systems
- Structures and materials in fires
- Explosions, industrial safety, people in fires, related topics

The 7 invited papers were presented by Dr. H.R. Baum (National Institute of Standards and Technology), Professor A.M. Birk (Queen's University, Kingston, Ontario), Professor B.E. Gelfand (Semenov Institute of Chemical Physics, Moscow), Professor J.H. Lee (McGill University, Montreal), Professor J.B. Moss (Cranfield University), Professor J.G. Quintiere (University of Maryland), and Dr. F. Tamanini (Factory Mutual Research Corporation).

Useful information of direct application to perform fire safety design were covered in the above invited lectures. These included plume dynamics, field modeling and concepts of fire systems. Flashover phenomena are clearly described. Concepts, equations, new ideas and application of Computational Fluid Dynamics are outlined. Flame spreading and ignition of materials are included. Fire suppression systems are covered.

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Note:

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