



INTERNATIONAL COUNCIL FOR RESEARCH AND INNOVATION IN BUILDING AND CONSTRUCTION

# INFORMATION

Nr. 1/02

**From CIB Co-sponsored and other Special CIB Events**

## **Report on the CIB Co-sponsored 4<sup>th</sup> International Conference on Performance-Based Codes and Fire Safety Design Methods**

by

Morgan J. Hurley

The Fourth International Conference on Performance-Based Codes and Fire Safety Design Methods was held from 20-22 March, 2002 in Melbourne, Australia. Presentations were made by delegates from Australia, Canada, Denmark, Japan, Korea, New Zealand, Singapore, Sweden, Switzerland, Taiwan, United Kingdom, and United States of America. There were approximately 250 attendees.

### **Meeting Programme**

The first day of the conference featured presentations on developments in the area of performance-based codes. The presentations included those developed under the auspices of CIB TG 37: Qualitative Versus Quantitative Aspects of Performance-based Regulations, Performance System Model - A Framework for Describing the Totality of Building Performance, The Role of Standards in a Performance-based Building Regulatory System, and The Role of Acceptable Solutions in Evaluating Innovative Designs.

The remaining presentations focused on topics such as maintenance of performance-based designs, regulatory review of performance-based designs, identifying the level of safety inherent in prescriptive regulations, and experience with the development and application of performance-based codes.

The second day of the conference dealt with developments in the area of fire safety design methods that would be used to develop or evaluate performance-based fire protection designs.

Presentations were made on uncertainty analysis, fire modeling, risk analysis methods, performance-based structural fire protection design, and the design of smoke control systems.

The third day featured case study presentations by teams from the United States, Canada, Japan, Australia and New Zealand. The presentations outlined the approaches that each team took to a common design problem - a highrise convention hotel. These presentations highlighted regulatory and cultural differences that affect performance-based fire protection design.

### **Future Meeting**

The fifth International Conference on Performance-Based Codes and Fire Safety Design Methods is tentatively planned for 2004 in Europe.