



First Announcement and Call for Papers

5th International Conference on

Advanced Composite Materials in Bridges and Structures

September 22-24, 2008

The Fairmont Hotel Winnipeg
Winnipeg, Manitoba, Canada

acmbs-v@isiscanada.com

Welcome to ACMBS-V

The 5th International Conference on Advanced Composite Materials in Bridges and Structures, ACMBS-V, will be held at the Fairmont Hotel, Winnipeg, Manitoba, Canada, from September 22-24, 2008. The Conference is organized under the auspices of the ACMBS Technical Committee of the Canadian Society for Civil Engineering (CSCE) and is sponsored by the ISIS Canada Network of Centres of Excellence. The success of the four previous ACMBS conferences, the first held in Sherbrooke in 1992, the second in Montreal in 1996, the third in Ottawa in 2000, and the fourth in Calgary in 2004, has established this event as a premier forum for the exchange of knowledge and experience with the use of advanced composites in bridges and structures.

Objectives

The objectives of the ACMBS-V Conference are to provide a forum for the presentation and discussion of recent developments in the use of advanced composite materials (ACM) and fibre reinforced polymers (FRP) in bridges and other structures, and to provide an opportunity for national and international delegates from industrial, research and academic institutions to interact and share their knowledge, to learn about new and innovative technologies in the field, and to discuss future directions.

Conference Topics

The ACMBS-V Conference will deal with all aspects of research, applications and monitoring of advanced composite materials and fibre reinforced polymers in the design, construction and rehabilitation of bridges and other structures. Topics of the conference will include but are not limited to:

- Material behaviour including bond, durability, fatigue and long-term performance
- Fabrication, processing and testing methods
- Analysis and design
- Applications in structural concrete with or without prestressing
- Applications in wood, masonry and steel structures
- Strengthening and rehabilitation of structures
- Seismic performance and retrofit
- Structural health monitoring and intelligent sensing
- Fire resistance
- Structural shapes and fully composite systems
- Anchorage systems and connections
- Innovative structural systems
- Full-scale testing
- Field applications and case studies
- Codes and standards
- Sustainability and life-cycle costs
- Safety and security