



# Engineering the Future

39th IABSE SYMPOSIUM  
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## Themes

### 1 Innovations in Structures

- New methods of design
- Analysis and modeling techniques
- High-performance materials
- Novel structural systems
- Hybrid and composite construction
- Innovative construction methods
- Modular & pre-fabricated construction
- Accelerated bridge construction
- Information technology
- Aesthetics in structural design
- Alternate project delivery models
- Other breakthrough technologies
- Case studies

### 2 Existing Structures into the Future

- Evaluation and assessment techniques
- Codes of practice for existing structures
- Structural health monitoring
- Extending the service life of existing structures
- Enhancing the durability of structures
- Climate change adaptation
- Sustainability
- Reducing seismic risks
- Strengthening and repurposing of structures
- Historical structures
- Learning from eminent engineers
- Case studies

### 3 Performance Based Design

- Establishing design criteria
- Reliability and risk in structural design
- Relationship of PBD to traditional codes
- Serviceability of structures
- Design for durability
- Beyond the 100 yr design life
- Dampers, isolators and structural control systems
- Natural and man-made hazards
- Taller, longer and lighter structures
- Aerodynamics of bridge decks
- Wind effects on tall buildings
- Advances in seismic design
- Design for soil-structure interaction
- Building resilient infrastructure
- Case Studies

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