

Sustainable Bridge Design in Natural Hazard Environments

Objectives

The objective of this symposium will be to bring together representatives of several state DOTs to discuss how they handle the natural hazards design within the framework of sustainable design. Are the goals of resilience and sustainability complimentary, or are they contrary? How are state bridge engineers addressing these issues? Also included would be state DOTs as well as selected research presentations from academics, and engineers in industry focusing on new materials and applications towards bridges. Lastly, up to 3 'keynotes' for the symposium would be considered: one on the state of bridge design, one assessment/repair/retrofit, and one on materials/modeling. One of the sessions will include a panel discussion at the end among the keynote speakers and session chairs with the goal being to identify gaps in knowledge that need to be addressed to further sustainable bridge design in natural hazard regions.

Scope (see point 3 above)

Session Titles and Topics Covered

Session 1: Current Bridge Design Practice
Chair: **Elmer Marx**

Session 2: Assessment and Retrofit of Bridges
Chair: **James Nau**

Session 3: Materials and Modeling Issues
Chair: **TBD**

Session 4: Panel and Discussion
Chair: **TBD**

Keynote speakers

- **Nigel Priestley** (seismic)
- Others to be determined

Symposium Chair and Co-Chairs

- Chair: **Mervyn Kowalsky**
- Co-Chair: **Tasnim Hassin**
- Others TBD

Session Chairs and Co-Chairs (see under Session Topics)