

CONCRETE CONNECTIONS

Concrete Connections is an annotated list of websites where information is available about concrete bridges. Fast links to the websites are provided at www.aspirebridge.org.

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www.fhwa.dot.gov/hfl

The purpose of the Highways for LIFE (HfL) pilot program is to accelerate the adoption of innovations and new technologies; thereby improving safety and highway quality while reducing congestion caused by construction. Prefabricated Bridge Elements and Systems (PBES) is a highlighted technology on this website.

www.greenhighways.org

The Green Highways Partnership is a voluntary collaborative effort at fostering partnerships to improve upon natural, built, social, and environmental conditions, while addressing the functional requirements of the transportation infrastructure. A free subscription to their e-newsletter is available.

www.dot.state.fl.us/specificationsoffice/2007BK/TOC.htm

This Florida Department of Transportation website contains the 2007 Florida Standard Specifications for Road and Bridge Construction.

www.fhwa.dot.gov/bridge/nbis.htm

Information about the National Bridge Inspection Standards (NBIS) and the National Bridge Inventory is available from this website.

www.brisbane.qld.gov.au

This website belongs to the City of Brisbane in Australia. A search for Eleanor Schonell will provide information about their "green bridge."

<http://bridges.transportation.org/?siteid=34&pageid=27>

This AASHTO Subcommittee on Bridges and Structures website contains the complete agenda from their 2007 annual meeting in Wilmington, Delaware, as well as presentations from the General Session. Errata to the 4th Edition of the AASHTO *LRFD Bridge Design Specifications* are also available.

Bridge Technology

www.nationalconcretebridge.org

The National Concrete Bridge Council (NCBC) website provides information to promote quality in concrete bridge construction, as well as links to the publications of its members.

www.hpbridgeviews.org

This website contains 46 issues of *HPC Bridge Views*, a newsletter published jointly by the FHWA and the NCBC to provide relevant, reliable information on all aspects of high performance concrete.

Bridge Research

<http://ntlsearch.bts.gov/tris/index.do>

The National Research Information System provides a bibliographic database of over 640,000 records of published research for all modes of disciplines and transportation.

www.trb.org/CRP/NCHRP/NCHRPprojects.asp

This website provides a list of all National Cooperative Highway Research Projects (NCHRP) since 1989 and their current status. Research Field 12 – Bridges generally lists projects related to bridges although projects related to concrete materials performance may be listed in Research Field 18 – Concrete Materials. Some completed projects are described below:

http://trb.org/news/blurb_detail.asp?id=3257

NCHRP Report 517, *Extending Span Ranges of Precast Prestressed Concrete Girders*, contains the findings of research performed to develop recommended load and resistance factor design procedures for achieving longer spans using precast, prestressed concrete bridge girders. Spliced girders were identified as the design option with the greatest potential for extending span lengths.

<http://trb.org/TRBNet/ProjectDisplay.asp?ProjectID=349>

NCHRP Report 549, *Simplified Shear Design of Structural Concrete Members*, contains the findings of research performed to develop practical equations for design of shear reinforcement in reinforced and prestressed concrete bridge girders. Recommended specifications and commentary plus examples illustrating application of the specifications were also developed. The results of this research have been incorporated into the AASHTO LRFD Bridge Design Specifications.

http://trb.org/news/blurb_detail.asp?id=7443

NCHRP Report 579, *Application of LRFD Bridge Design Specifications to High-Strength Structural Concrete: Shear Provisions*, examines research performed to extend the applicability of shear design provisions for reinforced and prestressed concrete structures in the AASHTO LRFD Bridge Design Specifications to concrete compressive strengths greater than 10 ksi.

http://trb.org/news/blurb_detail.asp?id=8375

NCHRP Report 595, *Application of the LRFD Bridge Design Specifications to High-Strength Structural Concrete: Flexural and Compression Provisions*, explores recommended revisions to the AASHTO LRFD Bridge Design Specifications to extend the applicability of the flexural and compression provisions for reinforced and prestressed concrete to concrete compressive strengths greater than 10 ksi.