

CONCRETE CONNECTIONS

Concrete Connections is an annotated list of websites where information is available about concrete bridges. Links and other information are provided at www.aspirebridge.org.

IN THIS ISSUE

<https://www.sgh.com/insights>

This is a link to the Simpson Gumpertz & Heger (SGH) website, where videos and publications are available to advance the state of the profession and improve the understanding of the built environment. SGH believes in the pursuit of lifelong learning and is profiled in the Focus article on page 6.

https://www.pci.org/PCI/Education/Leadership_PCI.aspx

Leadership PCI is described in the Perspective article on page 10 as a program that can promote engagement and leadership within the concrete bridge industry. The webpage at this link provides information on the program and a summary video.

<https://www.pci.org/SustainabilityResources>

<https://www.cement.org/sustainability>

The Perspective on page 10 discusses the leadership needed in our industry and workforce to drive sustainable practices in the concrete industry. These links lead to resources from PCI and the Portland Cement Association on the complex issues of sustainability and life-cycle analysis.

https://www.pci.org/PCI/Project_Resources/Project_Profile/Project_Profile_Details.aspx?ID=220335

This is a link to a project profile of the Governor Mario M. Cuomo Bridge connecting New Jersey and New York, which received the 2019 PCI Design Awards Transportation Award for Best Special Solution. This bridge, which included approximately 6000 full-depth deck panels, is mentioned in the Focus article about SGH on page 6. SGH worked with the precaster to develop the concrete mixture, maximize production efficiency, and perform special laboratory testing.

<https://northsplit.com>

The North Split Interchange in Indianapolis, Ind., where Interstates 65 and 70 merge and overlap, is the subject of the Project article on page 16. This is a link to the project website. Its News/Features tab provides access to photos, videos, local business information, and “Women of the North Split” profiles.

<https://www.kenmorewa.gov/our-city/projects/completed-projects/west-sammamish-river-bridge-replacement-project>

This is a link to a webpage with a project overview and construction highlight videos for the new West Sammamish River Bridge in Kenmore, Wash., which is featured in the Project article on page 20. The 600-ft-long, five-span structure with prestressed concrete tub girders replaced a structurally vulnerable bridge.

<https://nap.nationalacademies.org/read/25478/chapter/2>

The Concrete Bridge Technology article on page 30 provides insight into the engineering of bridge demolition. The National Cooperative Highway Research Program Synthesis 536 publication, *Bridge Demolition Practices*, available via this link, provides an overview of the “state of the industry” in engineering for bridge demolition. The report also contains results from a survey of 42 state departments of transportation.

<https://highways.dot.gov/research/structures/ultra-high-performance-concrete/deployments>

This link leads to an interactive map showing projects that have featured ultra-high-performance concrete (UHPC) in the United States through 2020. UHPC connections between prestressed concrete voided slabs are the subject of the Concrete Bridge Technology article on page 33, and UHPC link slabs are discussed in the FHWA article on page 58.

<https://asbi-assoc.org/learn/webinars>

The Safety and Serviceability article on page 40 discusses wind loads on structures and is based on information presented in August 2023 during one of the American Segmental Bridge Institute’s (ASBI’s) monthly webinars. Recordings for this webinar and other ASBI webinars can be accessed via this link.

<https://asbi-assoc.org/industry-wide-videos>

The article on page 36 spotlights ASBI as part of a series on National Concrete Bridge Council members. ASBI’s mission is to advance, promote, and innovate concrete segmental bridge technology; share the knowledge; educate stakeholders; build professional relationships; and increase the value of our infrastructure by providing sustainable solutions. This is a link to videos on concrete segmental projects and technology available on ASBI’s website.

https://abc-utc.fiu.edu/mc-events/new-mexico-precast-uhpc-abc-bridge-nm-50-over-glorieta-creek/?mc_id=754

New Mexico is featured in the State article on page 44. New Mexico’s most recent precast concrete bridge with UHPC closures, NM 50 over Glorieta Creek, was recognized with the 2023 PCI Design Award for All-Precast Concrete Solution and an honorable mention for Bridge with a Main Span under 75 ft. This is a link to a webinar presentation on NM 50 over Glorieta Creek.

<http://pci.org/workforce>

The recruitment, retention, and wellness of the concrete bridge industry’s workforce is paramount, as mentioned in the Editorial on page 2. Toward that goal, PCI has launched a website with tools—videos, resources, and strategies—for workforce development. This is a link to that website.