

Steve Randolph

From: Chad Janson [chad.janson@edm-inc.com]
Sent: Wednesday, May 05, 2004 11:28 AM
To: srandolph@hornershifrin.com
Subject: ASCE May Newsletter

May 2004
Please join the St. Louis Section for the
ASCE May Luncheon Meeting
Sponsored by the Geotechnical Committee
Tuesday, May 11, 2004

Design and Construction of the
Creve Coeur Lake Memorial Park Bridge

A Presentation by:

Bruce C. Kates, P.E., Jacobs Civil Inc. and
Ernst H. Petzold, III, P.E., Jacobs Civil Inc.

A large concrete segmental bridge has recently been dedicated for use in St. Louis County and is the first major use of segmental concrete construction by the Missouri Department of Transportation. This presentation describes: the basic features of the project, including the structural elements, spans and overall dimensions of the bridge; the selection process, including the work of the design committee; steps taken to familiarize the client with the structure type, its design and construction; specific design aspects including thermal movements, construction requirements, and seismic considerations; the specialized construction techniques required for this type of structure; some of the challenges encountered during the construction; and summarizes the construction of the structure, unique to this area.

Mr. Kates has over 25 years of experience in the design and construction of both highway and bridge projects. After earning his master's degree, he spent 3 years as a field engineer, providing construction inspection services for the Houston Ship Channel Bridge, a CIP segmental concrete box girder structure with a 750 ft. main span. His design background includes mainly precast, prestressed concrete bridges, but he has served as lead designer and project manager of a number of challenging roadway projects for both MoDOT and IDOT. He has been the lead designer (team leader) for the concrete alternate for the MoDOT Route 5 Bridge over the Missouri River at Boonville, Missouri, and for the Creve Coeur Lake Memorial Park Bridge, part of the Page Avenue Extension. He received his B.S. and M.S. in Civil Engineering from the University of Missouri-Rolla in 1976 and 1979, respectively. He received his MBA from University of Houston-Central Campus

Mr. Petzold is a Chief Engineer, Bridge Structures (St. Louis) with Jacobs and has over 30 years of bridge engineering experience. His project focus has been on long-span and major river bridges. As a designer, he has experience with numerous long span bridge types including steel and concrete cable stayed, steel truss, steel orthotropic deck, steel box girder and reinforced and post tensioned concrete. He was the Project Manager for the Creve Coeur Lake Memorial Park Bridge and for other work completed by Jacobs Civil Inc. on the Page Avenue Extension project. He received his B.S. and M.S. in Civil Engineering (structures) from Washington University in 1972 and 1973, respectively. He received his MBA from St. Louis University in 1986.

Location: The Engineers' Club of St. Louis, 4359 Lindell Blvd.

Time: 11:30 a.m. Registration & Cash Bar / 12:00 p.m. Lunch

Cost: \$15.00 per person / \$5.00 students

Call Kurt at the Engineer's Club for reservations (314-533-9333) or fax at 314-533-9336 or email at kurt.krispin@engineersclub.net