

**Department of Structural Engineering
University of California, San Diego
SE 290 Seminar**



Dr. Marwan Nader, P.E.

Senior Vice President
Technical Director, Bridge Line of Business
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"The New San Francisco Oakland Bay Bridge"

Wednesday, November 9, 2016
1:00 pm - 1:50 pm, Center Hall, Room 212

<http://structures.ucsd.edu/node/2126>

Abstract

The new San Francisco-Oakland Bay Bridge East Spans is comprised of four distinct structures, these are: a low rise post-tensioned concrete box girder near the Oakland shore; a 2.4 km long segmental concrete box girder; a self-anchored suspension signature span; and a post-tensioned concrete box girder that connects to the east portal of the Yerba Buena Island tunnel.

The Self Anchored Suspension Bridge consists of dual box girders suspended from cables which are supported on single 160-m tower located off of the eastern shore of the Yerba Buena Island. The SAS spans 565 m between the piers E2 and W2, with a 385m main span, over the navigational channel, and a 180 m back span. The new Bridge was open to traffic in 2013.

Biography

Marwan Nader has over 25 years of experience in the design and construction of Long Span bridges. Marwan received his Ph.D. from the University of California at Berkeley and has published numerous articles in various Journals and technical conferences. He is on the TRB Steel Bridge Committee, and is the 2004 recipient of the Arthur M.

Wellington ASCE award. Dr Nader is the Lead Designer and Project Manager of the San Francisco Oakland Bay Bridge Self Anchored Suspension Bridge.

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Sponsored by Professor Chia-Ming Uang

For more information on this seminar, contact Lindsay Walton, at [858-822-3273](tel:858-822-3273) or at lwalton@ucsd.edu