

K. DIRK BONDY

Structural Engineer

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Dirk Bondy has been a practicing engineer since 1989. His professional interest and expertise is in the area of post-tensioned and reinforced concrete, seismic design, seismic retrofit and vertical load retrofit. In addition to his structural design experience, Mr. Bondy teaches Prestressed Concrete Design at the University of California at Los Angeles and at Cal Poly San Luis Obispo. He has also been an instructor at the University of California, Irvine and California Polytechnic State University, Pomona where he taught courses on Pre-stressed Concrete Design, Reinforced Concrete Design, Steel Design, Structural Design and Seismic Design. He is co-author of the book *Post-Tensioned Concrete Principles and Practice*, and has been published in numerous journals and conference proceedings. He is a registered Civil and Structural Engineer in the states of California, Nevada, Hawaii and Arizona as well as a licensed C50 contractor in the state of California.

BORN

April 6, 1965 in Burbank, CA

EDUCATION

California Polytechnic State University, San Luis Obispo, BS, Architectural Engineering, 1988
University of California, Berkeley, MS, Civil: Structural Engineering, 1989

UNIVERSITY LECTURING EXPERIENCE

University of California, Los Angeles

CEE 143 Prestressed Concrete Design 2011-Current

California Polytechnic State University, San Luis Obispo

ArcE 400 Design of Prestressed Concrete 2014-Current

California Polytechnic State University, Pomona

EGR 522 Advanced Concrete Design; Fall Quarter 1992-1995

EGR 517 Advanced Steel Design; Winter Quarter 1993-1995

EGR 566 Aseismic Design; Spring Quarter 1994-1996

EGR 523 Prestressed Concrete Design; Summer Quarter 1994-1995

University of California, Irvine

CE 154 Reinforced Concrete Design; Fall Quarter 1996-1997

CE 156 Structural Design; Spring 1996-1997

CE 155 Steel Design; Winter 1997

PROFESSIONAL PRACTICE

1998-Present

President

Seneca Structural Engineering, Inc.

Laguna Hills, CA

2002-Present

President

The Great American Cable Company II, Inc.

Laguna Hills, CA

A contracting firm specializing in the repair, strengthening and retrofit of existing concrete buildings using externally applied post-tensioning tendons.

PROFESSIONAL AFFILIATIONS

American Concrete Institute, current Member of ACI 318-T

The Post-Tensioning Institute, former member of the Technical Activities Board

PUBLICATIONS AND PRESENTATIONS

Bondy, K. Dirk & Allred, Bryan (2012). ***Post-Tensioned Concrete – Principles and Practice.*** United States. Lulu Publishing.

Bondy, K. Dirk & Kenneth B. Bondy. "Shear Nonsense...- A critique of the ACI Code shear design procedure for post-tensioned beams", *Concrete International Magazine*, October 2016

"Evaluation and Repair of Existing Post-Tensioned Buildings with Paper-Wrapped Tendons Experiencing Corrosion Damage", *PTI Journal*, **Post-Tensioning Institute**, December 2006

"Externally Applied Post-Tensioning Systems", **STRUCTURE Magazine**, July 2005

"A More Rational Approach to Capacity Design of Seismic Moment Frame Columns," **Earthquake Spectra**, Vol. 12, No. 3, August 1996

"External Post-Tensioning of Concrete Structures", **Seminar Proceedings, Tales from the Field**, Structural Engineer's Association of Southern California, November 2008

"Long and Short Span External Post-Tensioned Concrete Retrofit", paper presented at the Annual Convention of the **Post-Tensioning Institute**, May 17, 2005, Denver, Colorado.

"Fundamentals of Post-Tensioned Concrete", paper presented at the Spring Seminar of the **Structural Engineers of Northern California**, March 31, 2004, San Francisco, California.

ALSO

Mr. Bondy is a licensed private pilot (single-engine, multi-engine and instrument ratings) with over 1,000 hours total pilot-in-command time.