

Jay Thomas

Jay Thomas is Vice President for Structural Preservation Systems, Inc.; the largest dedicated concrete repair contractor in the United States and a recognized industry leader. Jay has 22 years of construction experience in commercial and industrial facilities on rehabilitation and maintenance projects involving structural repair, strengthening and protection of concrete and steel.

He has written a number of articles and papers on strengthening techniques and composite strengthening for concrete structures, has been involved in over 400 composite strengthening projects, and has also presented the subject at major industry events, engineering organization seminars, and trade show seminars such as the World of Concrete. Jay is a graduate engineer from the University of Pennsylvania. Professional Memberships include: ACI 440 (FRP), ACI 546 (REPAIR), ACI 437 (STRENGTH EVALUATION OF EXISTING BLDGS.), and International Concrete Repair Institute (ICRI). He was the 2000 recipient of the **ACI Construction Practice Award** "for co-authored papers, '*Strengthening Concrete Structures: Parts I and II*,' March and April 1998, *Concrete International*, which summarize the materials and methods now available for the repair and strengthening of concrete elements in our existing infrastructure."

Articles/Papers Include:

Carbon FRP Strengthening of PCCP Aqueducts

By Tarek Alkhrdaji and Jay Thomas

(Proceedings of the ASCE International Conference on Pipeline Engineering and Construction - July 2003)

Municipal Aqueduct Systems

By Jay Thomas and Robert St. John
(Public Works – January 2003)

Silo repair and upgrade using FRP strengthening technology

By Jay Thomas and Abhi Tipnis
(Structural Engineer – July 2002)

Techniques and Design Considerations for Upgrade of Parking Structures

By Tarek Alkhrdaji and Jay Thomas
(Parking – June 2002)

Methods of Upgrading Concrete Structures

By Tarek Alkhrdaji and Jay Thomas
(Concrete Repair Bulletin – March/April 2002)

Use of FRP Composites in Strengthening of Highway Bridges

by Tarek Alkhrdaji and Jay Thomas
Structural Preservation Systems Inc., Hanover, MD, USA

David Nichols

Boone County Public Works, Columbia, MO, USA

Gajanan M. Sabnis

Howard University, Department of Civil Engineering
Washington, DC 20059 USA

(Proceedings of the International Conference and exhibition on Reinforced Plastics—ICERP 2002 February 7-9, 2002 IIT Madras, India © FRP Institute

Strengthening and Load Test Evaluation

by Tarek Alkhrdaji and Jay Thomas
(Concrete Repair Bulletin—January/February 2002)

Upgrading Parking Structures

Techniques and design considerations
by Tarek Alkhrdaji and Jay Thomas
(The Construction Specifier – November 2001)

Blue Circle Terminals Find Their Strength

By Jay Thomas and Abhi Tipnis
(Cement Americas – Nov./Dec. 2001)

More flexibility, less weight

By Jay Thomas
(Plant Services — October 2001)

City of Wichita Implements Pioneering Rehab Technologies

by Karl J. Svaty, Monica Lane, Nabil F. Grace and Jay Thomas
(Concrete International – American Concrete Institute – November 2000)

Post-Tension Strengthening Of Bridge Piers Using Carbon Fiber Reinforced Polymer Leadline Rods

By Nabil F. Grace, Karl J. Svaty, Jr., Monica Lane Svaty, and Jay Thomas

(ACI-Fourth International Symposium Fiber Reinforced Polymer Reinforcement for Reinforced Concrete Structures – Fall 1999)

FRP Strengthening – Experimental Or Mainstream Technology?

by Jay Thomas
(Concrete International – American Concrete Institute – June 1998)

Strengthening Concrete Structures: Parts I & II

by Peter H. Emmons, Jay Thomas and Alex Vaysburd
(Concrete International – American Concrete Institute – March and April 1998)

Muscle Made With Carbon Fiber

by Peter H. Emmons, Jay Thomas and Alex Vaysburd
(Civil Engineering – American Society of Civil Engineers – January 1998)

FRP Strengthening And On-Site Evaluation Of A P.C. Slab

by A. Nanni, W. J. Gold, Jay Thomas and H. Vossoughi
(American Concrete Institute Convention – October 1997)

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Articles/Papers (continued)

Design Consideration And Application Techniques For Strengthening

by Jay Thomas and Karen Morey

(Concrete Repair Bulletin – International Concrete Repair Institute – October 1997)

Strengthening With FRP Reinforcement In The U.S.

by Jay Thomas, Peter H. Emmons and Alex Vaysburd
(Japan Concrete Institute, Third International Symposium on Non-Metallic (FRP) Reinforcement For Concrete Structures, Sapporo, Japan – October 1997)

Investigation, Repair And Monitoring of Unbonded Post-Tensioned Tendons

By Jack Elliott, Morris Schupack and Jay Thomas
(American Concrete Institute Convention – April 1997)

Strengthening Of Concrete Structures – State Of The Art And Future Needs

by Jay Thomas, Peter H. Emmons, Alex M. Vaysburd and M. Vadovic
(International Composites Exposition – January 1997)

Strengthening Concrete With Carbon Fiber Reinforcement

by Jay Thomas, and Thomas Kline
(Concrete Repair Digest – April 1996)

Field Applications Of A Carbon Fiber Sheet Material For Strengthening Reinforced Concrete Structures

by Jay Thomas, Howard Kliger, and Hiroyuki Yoshizawa
(41st International Sampe Symposium – March 1996)

Externally Bonded Carbon Fiber For Strengthening Concrete

by Jay Thomas, Thomas Kline, Peter H. Emmons, and Howard Kliger
(International Composites Exposition – January 1996)

A Concrete Answer

By Tarek Alkhrdaji/Jay Thomas
(Professional Retail Store Maint. — March 2004)

Blue Circle Terminals Finds Their Strength

By Jay Thomas and Abhi Tipnis
(Cement Americas – Nov/Dec 2001)

Carbon FRP Strengthening of PCCP Aqueducts

By Tarek Alkhrdaji and Jay Thomas
(Paper – July 2003)

Design & Application Techniques

By Tarek Alkhrdaji & Jay Thomas
(The Parking Professional -- March 2004)

Design Considerations and Application. Techniques for Strengthening

By Jay Thomas, and Karen Morey
(Concrete Repair Bulletin – July/Aug – 1997)

FRP Strengthening And On-Site Evaluation of A PC Slab

By A. Nanni, W.J. Gold, J. Thomas, and H. Vossoughi
(Paper --)

FRP Strengthening—Experimental or Mainstream Technology

By Jay Thomas
(Concrete International – June 1998)

More Flexibility, Less Weight

By Jay Thomas
(Plant Services – October 2001)

Silo Repair & Upgrade Using FRP Strengthening Technology

By Jay Thomas and Abhi Tipnis
(Structural Engineer – July 2002)

Strengthening and Load Test Evaluation

By Tarek Alkhrdaji and Jay Thomas
(Concrete Repair Bulletin – Jan/Feb 2002)

Strengthening Concrete Structures, Part I

By Peter H. Emmons, Alexander M. Vaysburd, and Jay Thomas
(Concrete International – March 1998)

Strengthening Concrete Structures, Part II

By Peter H. Emmons, Alexandria M. Vaysburd, and Jay Thomas
(Concrete International – April 1998)

Strengthening Concrete with Carbon-Fiber Reinforcement

By Jay Thomas and Thomas Kline
(Concrete Repair Digest – April/May 1996)

Strengthening With FRP Reinforcement In The U.S. – Experiments or Main Stream Technology? Contractor's Viewpoint

By Jay Thomas, Peter H. Emmons, and Alexander M. Vaysburd
(Paper --)

Performance of Double-T Prestressed Concrete Beams Strengthened with Steel Reinforced Polymer

By Paolo Casadei, Antonio Nanni, Tarek Alkhrdaji, and Jay Thomas
(Advances in Structural Engineering, An International Journal (ASE), In print – 2005)

Characterization of reinforced concrete beams strengthened by steel reinforced polymer and grout (SRP and SRG) composites

By B. Barton, E. Wobbe, L.R. Dharani, T. Alkhrdaji, J. Thomas and G. Tunis
(Paper—Dec. 2005)

Renovating Resorts – Atlantic City

By Jay Thomas, Keith Eberhardt and Tarek Alkhrdaji
(Concrete International – November 2006)

Strengthening System Aids Restoration of Historic Theater

By Jay Thomas and Tarek Alkhrdaji
(Concrete Magazine – March 2005)

Steel Belted Flooring

By Jay Thomas
(In MFG – February 2005)

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Articles/Papers (continued)

Is Time On Your Side: Approaches and Innovations for Time-related Corrosion of Parking Structures

By Jay Thomas and Bob Pirro
(Parking Magazine – June 2005)

FRP for Power Plants

By Jay Thomas
(Power Magazine – January 2005)

Techniques For Structural Repair

By Jay Thomas and Tarek Alkhrdaji
(Autumn 2004)

Design, application techniques key to successful structural repair, strengthening of aging concrete facilities.

By Jay Thomas and Tarek Alkhrdaji

To The Rescue

By Jay Thomas and Tarek Alkhrdaji
(Concrete Products – February 2004)

A Better Way: For Concrete Facilities: Design, application techniques key to repairing, strengthening,

By Jay Thomas and Tarek Alkhrdaji
(Feedstuffs – February 2004)

Design and Application Techniques

By Jay Thomas and Tarek Alkhrdaji
(The Parking Professional – March 2004)

Strengthening of Concrete

By Jay Thomas and Tarek Alkhrdaji
(School Facilities – June 2004)

A Concrete Answer

By Jay Thomas and Tarek Alkhrdaji
(Professional Retail Store Maintenance – March 2004)

Keys to Success

By Jay Thomas and Tarek Alkhrdaji
(Structural Engineer – May 2004)

FRP Technology Used to Repair Municipal Aqueduct System in Rhode Island

By Jay Thomas
(Trenchless Technologies – July 2004)

Repair at Resorts International Casino

By Keith Eberhardt, Jay Thomas and Tarek Alkhrdaji, Structural Preservation Systems, Baltimore, USA, and Bill Segal, Perini Construction
(CEI - Summer 2007)