

Marc J. Veletzos, Ph.D., P.E.
Assistant Professor
Department of Civil Engineering
Merrimack College
315 Turnpike St, North Andover, MA 01845

EDUCATION

Ph.D., Structural Engineering, UCSD, 2007

Concentration: Seismic Design and Analysis of Bridges

Dissertation: "The Seismic Response of Precast Segmental Bridges with Bonded Tendons"

Adviser: Jose I. Restrepo, Ph.D.

M.S., Structural Engineering, UCSD, 1997

Concentration: Seismic Isolation of Bridges

Thesis: "Seismic Isolation of Bridge Spans by Pendulum Suspension"

Adviser: M. J. Nigel Priestley, Ph.D.

B.S., Structural Engineering, UCSD, 1994

Concentration: Structural Analysis and Advanced Composite Design

LICENSURE

Professional Civil Engineer, California (C-59796)

AWARDS

James Cooper Best Paper Award - Structural, for the paper titled "The Influence of Vertical Earthquake Motion and Pre-Earthquake Stress State on the Seismic Response of Precast Segmental Bridge Superstructures", 6th National Seismic Conference on Bridges and Highways, Charleston, SC, July 2008.

EXPERIENCE

Assistant Professor (2009-present)

Merrimack College – Civil Engineering Dept., North Andover, MA

Post-Doctoral Researcher (2007-2008)

University of California, San Diego – Structural Engineering Dept., La Jolla, CA

Bridge Engineer (2004, 2008)

International Bridge Technologies, San Diego, CA

Adjunct Assistant Professor (2006-2007)

San Diego State University – Civil Engineering Dept., San Diego, CA

Senior Teaching Assistant (2004-2006)

University of California, San Diego – Structural Engineering Dept., La Jolla, CA

Graduate Student Researcher (2003-2007)

University of California, San Diego – Structural Engineering Dept., La Jolla, CA

Bridge Engineer (2002-2003)

Parsons, San Francisco, CA

Bridge Engineer/Resident Engineer (1996-2001)

Buckland & Taylor Ltd., Walnut Creek, CA

Research Assistant (1994-1996)

Charles Lee Powell Structural Systems Laboratory, La Jolla, CA

INVITED SPEAKER

Veletzos, M.J., Restrepo, J.I., and Seible, F., “Design Recommendations based on UCSD Segmental Seismic Research”, *1st International ASBI Symposium*, San Francisco, CA, November 2008.

Veletzos, M.J., and Restrepo, J.I., “Seismic Response of Precast Segmental Bridge Superstructures”, *American Segmental Bridge Institute 19th Annual Convention*, Los Vegas, NV, November 2007.

PUBLICATIONS

Journal Publications

Veletzos, M.J., and Restrepo, J.I. “Validation, Calibration and Sensitivity Studies of an Analytical Method for Nonlinear Time History Analysis of Precast Concrete Segmental Bridges”, *PCI Journal*. (Accepted for publication)

Megally, S., **Veletzos, M.J.**, Burnell, K., Seible, F., and Restrepo, J.I. “Seismic Performance of Precast Segmental Bridges: Summary of Experimental Research on Segment-to-Segment Joints”, *PCI Journal*, April 2009.

Veletzos, M.J., Panagiotou, M., Van Den Einde, L., Restrepo, J.I., and Sahs, S., “Post-Earthquake Assessment of Bridge Columns - Online Training Helps Inspectors Rapidly Evaluate Capacities”, *Concrete International*, March, 2008.

Research Reports

Veletzos, M.J., Restrepo, J.I., and Seible, F., “Seismic Response of Precast Segmental Bridge Superstructures”, *Structural Systems Research Project, SSRP 06/18*, University of California at San Diego, La Jolla, CA, December 2006.

Veletzos, M.J., Panagiotou, M., and Restrepo, J.I., “Post Seismic Inspection and Capacity Assessment of Reinforced Concrete Bridges”, *Structural Systems Research Project, SSRP 06/19*, University of California at San Diego, La Jolla, CA, June 2006.

Veletzos, M.J., Priestley, M.J.N., and Seible, F., “Seismic Isolation of Bridge Spans by Pendulum Suspension”, *Structural Systems Research Project, SSRP 97/14*, University of California at San Diego, La Jolla, CA, November 1999.

Conference Publications

Prowell, I., **Veletzos, M.J.**, Elgamal, A., and Restrepo, J.I., “Shake Table Test of a 65kW Wind Turbine and Computational Simulation”, *14th World Conference on Earthquake Engineering*, Beijing, China, October 2008.

Veletzos, M.J., and Restrepo, J.I., “The Seismic Response of Precast Segmental Bridge Superstructures”, *M.J. Nigel Symposium*, King’s Beach, CA, August 2008.

Veletzos, M.J., and Restrepo, J.I., “The Influence of Vertical Earthquake Motion and Pre-Earthquake Stress State on the Seismic Response of Precast Segmental Bridge Superstructures”, *6th National Seismic Conference on Bridges and Highways*, Charleston, SC, July 2008.

Veletzos, M.J., and Restrepo, J.I., “Seismic Response of Precast Segmental Bridge Superstructures with Bonded Tendons”, *FHWA Accelerated Bridge Construction: Highway for Life Conference*, Baltimore, MD, March 2008.

Seible, F., **Veletzos, M.J.**, and Megally, S., “Summary of Segmental Seismic Research at University of California at San Diego”, *American Segmental Bridge Institute 18th Annual Convention*, San Diego, CA, November 2006.

Veletzos, M.J., and Restrepo, J.I., “Seismic Response of Precast Segmental Bridge Superstructures with Bonded Tendons”, *4th International Conference on Earthquake Engineering*, Taipei, Taiwan, October 2006

Veletzos, M.J., and Restrepo, J.I., “Improved Seismic Performance of Precast Segmental Bridges Using Jointed Column Connections and Unbonded Tendons”, *5th National Seismic Conference on Bridges and Highways*, San Francisco, CA, September 2006.

Veletzos, M.J., Panagiotou, M., and Restrepo, J.I., “Post Seismic Inspection and Capacity Assessment of Reinforced Concrete Bridge Columns”, *5th National Seismic Conference on Bridges and Highways*, San Francisco, CA, September 2006.

Veletzos, M.J., and Restrepo, J.I., “Seismic Response of Precast Segmental Bridge Superstructures with Bonded Tendons”, *5th National Seismic Conference on Bridges and Highways*, San Francisco, CA, September 2006.

Veletzos, M.J., and Restrepo, J.I., “Improved Seismic Performance of Precast Segmental Bridges Using Jointed Column Connections and Unbonded Tendons”, *100th Anniversary Earthquake Conference*, San Francisco, CA, April 2006 (Poster session).

Workshop Publications

Veletzos, M.J., Van Den Eende, Y., Restrepo, J.I., and Sahs, S., “Post Seismic Inspection and Capacity Assessment of Reinforced Concrete Bridge Columns”, *1st US-Italy Seismic Bridge Workshop*, University of Pavia, Pavia, Italy, April, 2007.

Veletzos, M.J., and Restrepo, J.I., “Improved Seismic Performance of Precast Segmental Bridges Using Jointed Column Connections and Unbonded Tendons”, *2nd US-Taiwan Workshop on Self-Centering Structural Systems*, Taipei, Taiwan, October 2006

Veletzos, M.J., and Priestley, M.J.N., “Seismic Isolation of Bridge Spans by Pendulum Suspension”, *4th Caltrans Seismic Research Workshop*, Sacramento, CA, July 1996.