

## ABET FACULTY VITAE (2 Page)

**Name:** David Weggel

### **Education:**

- Ph.D., Civil Engineering, University of Texas at Austin, 1997
- M.S., Civil Engineering, Drexel University, 1992
- B.S., Civil Engineering, Drexel University, 1992
- B.S., Architectural Engineering, Drexel University, 1990

### **Academic Experience:**

- UNC Charlotte, Professor, 2014 – Present, Full-Time
- UNC Charlotte, Founder and Director the Infrastructure Security and Emergency Responder Research and Training (ISERRT) Center, 2010 – Present, Full-Time
- UNC Charlotte, Associate Professor, 2008 – 2014, Full-Time
- UNC Charlotte, Associate Professor, 2002 – 2008, Full-Time
- California Polytechnic State University, Department of Architectural Engineering, Assistant Professor, 1997 – 2000, Full-Time

### **Non-Academic Experience:**

- Weidlinger Associates, Inc., Senior Anti-Terrorist Structural Engineer, 2000-2002, Full-Time
- Spars International, Inc., Research Engineer, 1997 – 1998, Part-Time

### **Certifications or Professional Registrations:**

- PE Registration, Texas

### **Current Membership in Professional Organizations:**

- American Society of Civil Engineers
- United States Association for Computation Mechanics
- Society of Experimental Mechanics
- American Institute of Steel Construction
- Structural Engineers Association of North Carolina

### **Honors and Awards:**

- Member, Chi Epsilon civil engineering honorary fraternity.
- Wesley O. Pipes CAEED Distinguished Alumni Lectureship (with honorarium), Civil, Architectural, and Environmental Engineering, Drexel University, April 15, 2008.
- Invited presenter (with honorarium), 2005 Structural Forum, Structural Engineers Association of California, California Polytechnic State University, San Luis Obispo, CA, February 12, 2005.
- Cited by Mayor Bloomberg (with certificate) for serving the Mayor's Office of Emergency Management (Authorized A06065) by conducting structural inspections at Ground Zero, World Trade Center Emergency, New York, NY, September 18, 2001.

**Service Activities (Within and Outside of the Institution):**

- Faculty Research Grant Proposal Committee (2014-2016)
- UNC Charlotte Student Chapter of SEA of NC, Charter Faculty Adviser (2015 – Present)
- CEE Graduate Committee (2013 – Present)
- CEE Faculty Workload Committee, Chair (2003 – Present)
- CEE Strategic Planning Committee (2003-present)
- CEE Sustainability Committee, Chair (2005 – 2011)
- CEE/EPIC Structures Search Committee, Chair (AYs 2013-2014, 2009-2010, 2004-2005)
- Structures Search Committee (AYs 2012-2013, 2002-2003)
- Structures Lecturer Search Committee (AY 2013-2014)

**Select Publications and Presentations (Last Five Years):**

1. Ralston, Adam D., Weggel, David C., Whelan, Matthew J., and Fang Hongbing, “Experimental and Numerical Investigations of Glass Curtain Walls Subjected to Low-Level Blast Loads”, *International Journal of Computational Methods and Experimental Measurements*, Vol. 3(2), 2015, pp. 121-138.
2. Whelan, Matthew J., Ralston, Adam D., and Weggel, David C., “Blast Testing of Cold Formed Steel-Stud Wall Panels”, *Journal of Performance of Constructed Facilities*, 2015, pp. 1-11.
3. Fang, Howie, Wang, Qian, and Weggel, David C., “Crash Analysis and Evaluation of Cable Median Barriers on Sloped Medians Using an Efficient Finite Element Model”, *Advances in Engineering Software*, Vol. 82, 2015, pp. 1-13.
4. Kernicky, Timothy P., Whelan, Matthew J., Weggel, David C., and Rice, Corey D., “Structural Identification and Damage Characterization of a Masonry Infill Wall in a Full Scale Industrial Building Subjected to Internal Blast Load”, *Special Issue: Field Testing of Bridges and Buildings, Journal of Structural Engineering*, Vol. 141(1), 2015, pp. 1-13.
5. Cavalline, Tara L., Schwerin, Dallas E., Weggel, David C., and McClure, Chuck, “Construction of a Recycled Brick Masonry Aggregate Concrete Test Pavement”, *The Technology Interface International Journal*, 15(1), 2014, pp. 11-20.
6. Christy, Carl W., Weggel, David C., Smelser, Ronald E., and Kennedy, Benjamin T., Technical Note: “Closed-Form Solution for a Cantilevered Sectorial Plate Subjected to a Tip Bending Moment”, *Journal of Engineering Mechanics*, Vol. 140, No. 3, March 2014, pp. 640-643.

**Recent Professional Development Activities:**

- Co-organized “Numerical Modeling and Computational Methods of Impact and Blast Problems”, 13th U.S. National Congress on Computational Mechanics, San Diego, CA, July 26-30, 2015.
- Completed “Veterans on Campus” course, UNC Charlotte, Charlotte, NC, July 21, 2014.
- Co-organized “Numerical Modeling and Engineering Design for Impact and Blast Problems”, 12th U.S. National Congress on Computational Mechanics, Raleigh, NC, July 22-25, 2013.
- Attended BRSC Committee Meeting and the 83rd Shock and Vibration Symposium, Shock and Vibration Information Analysis Center (SAVIAC), New Orleans, LA, November 4-8, 2012.