



UNIVERSITY OF CONNECTICUT
Department of Civil & Environmental Engineering
Resume of
Michael L. Accorsi, Professor

Education:

- B.S. Civil Engineering 1980 University of Delaware
- M.S. Civil Engineering 1982 University of Delaware
- Ph.D. Applied Mechanics 1986 Northwestern University

Experience:

- National Transportation Security – Center of Excellence, University of Connecticut
 - Director 2009 – 2010
- Department of Civil & Environmental Engineering, University of Connecticut
 - Professor 1999 – 2010
 - Department Head 2006 – 2009
 - Associate Professor 1992 – 1999
 - Assistant Professor 1986 – 1992
- Department of Civil & Environmental Engineering, University of Delaware (Newark, DE)
 - Visiting Assistant Professor 1985 – 1986
- U.S. Army Natick Soldier Systems Center (Natick, MA)
 - Research Engineer 1997 – 2009
- Pratt & Whitney (East Hartford, CT)
 - Research Engineer 2005 – 2006
- Naval Undersea Warfare Center (Newport, RI)
 - Research Engineer 1996 – 1997
- Co-PI on the FY 2004 DoD Common High Performance Computing Software Support Initiative “Development and Validation of a Collaborative Simulation and Test Augmentation Tool Set for Airdrop Systems”
- Co-PI on the FY 2001 DoD High Performance Computing Modernization Program Challenge Project “Airdrop System Modeling for the 21st Century Airborne Warrior”

Research Interests:

- Computational Solid Mechanics and Finite Element Methods; Micromechanics; Composite Materials; Structural Acoustics, Parachute Mechanics

Awards:

- Connecticut Academy of Science and Engineering – Member 2008
- Commander’s Educational Award for Excellence - U.S. Army Soldier Systems Center, 1998.
- LIDA Foundation Award for Excellence in Graduate Research Direction, September 1998.

Professional Service:

- Chair, AIAA Aerodynamic Decelerator Systems Technical Committee, 2003-2005.
- Technical Chair, 17th AIAA Aerodynamic Decelerator Systems Technology Conference and Seminar, May 19-22, 2003, Monterey, California

Professional Service (continued)

- Technical Chair, 16th AIAA Aerodynamic Decelerator Systems Technology Conference and Seminar, May 21-24, 2001, Boston, Massachusetts
- Technical Chair, 15th AIAA Aerodynamic Decelerator Systems Technology Conference and Seminar, June 8-11, 1999, Toulouse, France
- Member, AIAA Aerodynamic Decelerator Systems Technical Committee, 1997-2005.

Recent Publications

D. Hufner and M. Accorsi (2009), "A Progressive Failure Theory for Woven Polymer-Based Composites Subjected to Dynamic Loading," *Composite Structures*, Volume 89, Issue 2, June 2009, Pages 177-185.

M. Pruett, M. Accorsi and R. Charles (2009), "Validation of Computational Structural Dynamics Models for Parachute Systems," AIAA-2009-2934, 20th AIAA Aerodynamic Decelerator Systems Technology Conference, Seattle, WA, May 5 - 7, 2009.

M. Pruett, M. Accorsi and M. Kandis (2009), "Stress Analysis of the Parachute System for the Mars Science Laboratory Mission," AIAA-2009-2972, 20th AIAA Aerodynamic Decelerator Systems Technology Conference, Seattle, WA, May 5 - 7, 2009.

D. Hufner and M. Accorsi (2008), "A User Material Subroutine for Progressive Failure Analysis of Woven Polymer-Based Composites Subjected to Dynamic Loading," *Abaqus Users Conference*, May 19-22, 2008, Newport, Rhode Island.

C. Eggers, M. Berli, M. Accorsi and D. Or (2007), "Permeability of deformable soft aggregated earth materials: From single pore to sample cross section," *Water Resources Research*, 43 (8), Art. No. W08424, August 2007.

M. Accorsi, A. Witkowski and M. Kandis (2007), "Mars Scout Phoenix Canopy Stress Analyses," (AIAA-2007-2528, 19th AIAA Aerodynamic Decelerator Systems Technology Conference and Seminar, May 21-24, 2007, Williamsburg, VA.

M. Berli, M. Accorsi and D. Or (2006), "Size and Shape Evolution of Pores in Viscoplastic Matrix under Compression," *International Journal for Numerical and Analytical Methods in Geomechanics*, 30(12), 1259-1281.

C. Eggers, M. Berli, M. Accorsi and D. Or (2006), "Deformation and Permeability of Aggregated Soft Earth Materials," *Journal of Geophysical Research*, 111, B10024.

M. Berli, C. Eggers, M. Accorsi and D. Or (2006), "Theoretical Analysis of Mechanical Behavior of Fluid Inclusions for In-Situ Measurements of Soil Stress and Deformation," *Soil Science Society of America Journal*, 70(5), 1441-1452.

M. Berli, C. Eggers, M. Accorsi and D. Or (2006), "Linking soil micro-mechanics and hydraulic conductivity," *Sustainability - Its Impact on Soil Management and Environment. Advances in Geocology*. Catena Verlag, Reiskirchen, R. Horn, H. Fleige, S. Peth and X. Peng (Editors), 2006, pp. 59-70.