



**Professor David W. Jensen**

See:

<https://ceen.et.byu.edu/content/david-w-jensen>

Director of the Center for Advanced Structural Composites  
Civil & Environmental Engineering  
Brigham Young University (BYU)

**Education:**

1986 PhD, Structures Technology (Aero and Astro) Massachusetts Institute of Technology (MIT)  
1981 SM, Aero and Astro, MIT  
1980 BS, Civil Engineering, Brigham Young University

**Work Experience:**

Associate Chair, Civil Engineering, BYU, (2012-present)  
Professor, Civil Engineering, BYU, (1999-present)  
Associate Professor, Civil Engineering, BYU, (1993-1999)  
Associate Professor, Aerospace Engineering, The Pennsylvania State Univ., (1991-1993)  
Assistant Professor, Aerospace Engineering, The Pennsylvania State Univ., (1986-1991)

**Honors and Awards:**

Modern Marvels Invent Now Challenge Semi-Finalist, (2007)

Recognized as one of 25 semi-finalists (out of over 3,300 inventions considered) for invention of “Continuous Fabrication of Complex Composite IsoTruss Structures” in the 2007 Modern Marvels Invent Now Challenge sponsored by the History Channel.

AIAA Sustained Service Award, (2006)

Stoel-Rives Utah Innovation Award, (2003)

1st Place, Innovation of the Year, Mechanical Devices and Advanced Materials Category, for development of “IsoTruss Grid Structures.”

Outstanding Achievement in Technology Transfer Award, BYU, (2002)

Boeing - A. D. Welliver Faculty Summer Fellowship, Seattle, WA, (1995)

### **Scientific and Professional Societies:**

Fellow, ASCE

President, ASCE Central Utah Branch, (2007-2008)

Associate Fellow, AIAA

AIAA Director-Technical, Structures Design and Test Group, (2004-present)

As an elected member of the Board of Directors of AIAA, I oversee 7 Technical Committees.

### **Selected publications:**

Jensen, D. W. and Lagace, P. A., “Influence of Mechanical Couplings on Buckling and Postbuckling of Anisotropic Plates,” AIAA Journal, Vol. 26, No. 10, October 1988, pp. 1269-1277.

Lagace, P. A., Jensen, D. W., and Finch, D. C., “Buckling of Unsymmetric Composite Laminates,” Composite Structures, Vol. 5, 1986, pp. 101-123.

H.T. Hahn, D. W. Jensen, S.J. Claus and P.A. Hipp, Structural design criteria for filament wound composite shells, NASA CR-195125 (1994).

Jensen, D.W., Rollins, K.M., Ferrell, M., and McCune, D., “Flexural Behavior of Composite IsoTruss Reinforced Concrete Piles.” Procs. Geo-Congress 2008: Geosustainability and Geohazard Mitigation, Geotechnical Special Publication No. 178, ASCE, 2008, p. 923-930.

Rackliffe, M.E., Jensen, D.W. and Lucas, W.K., “Local and Global Buckling of Ultra-Light IsoTruss® Structures,” Journal of Composites Science, and Technology, Special issue: Experimental Techniques and Design in Composite Materials - Edited by M. Quaresimin, Elsevier, Vol 66/2, pp 283-288.

Embley, M. D., D. W. Jensen, D. N. Allen, C. Garvin, and M. J. Jensen, “Buckling Strength of Damaged Unidirectional Basalt Composite Rods Consolidated With Braided Sleeves,” Proceedings of the SAMPE TECH 2011 Conference, SAMPE, Fort Worth, TX, 15 pp., Oct. 17- 20, 2011.

Allen, D. N., D. W. Jensen, M. D. Embley, C. Garvin, and M. J. Jensen, “Compression Strength After Impact of Basalt Fiber Members in an Aramid Sleeve,” Proceedings of the SAMPE TECH 2011 Conference, SAMPE, Fort Worth, TX, 12 pp., Oct. 17-20, 2011.

Jensen, M. J., A. D. Howcroft, and D. W. Jensen, “Design of an IsoTruss Aircraft Strut,” Proceedings of the SAMPE TECH 2011 Conference, SAMPE, Long Beach, CA, 8 pp., May 23- 26, 2011.