



Professor Christopher D. Moen

See:

<http://www.moen.cee.vt.edu/>

<http://www.moen.cee.vt.edu/buckling-cracker-v2-0/>

<http://www.cee.vt.edu/sem/faculty-members/>

<https://scholar.google.com/citations?user=OtRIQQkAAAAJ&hl=en>

<http://www.ssrcweb.org/2016/10/03/christopher-d-moen-wins-2016-ssrc-majr-medal/>

Structural Engineering and Materials, Civil & Environmental Engineering, Mechanical Engineering
Virginia Tech Institute for Creativity, Arts and Technology (ICAT)
President and CEO, NBM Technologies, Inc.

Biography (from: <https://orgsync.com/136110/events/1562531/occurrences/3607852>):

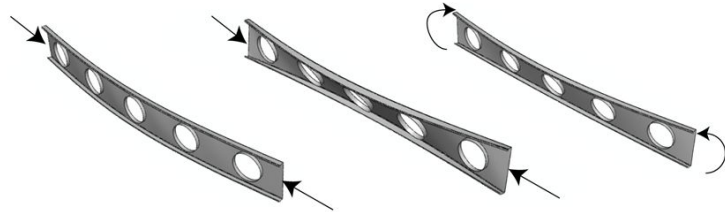
Dr. Christopher D. Moen is an associate professor in the Charles E. Via, Jr. Department of Civil & Environmental Engineering at Virginia Tech. He completed the Bachelor and Masters of Civil Engineering at the University of Virginia in 1995 and 1997 respectively and a doctorate in Civil Engineering at Johns Hopkins University in 2008. Dr. Moen worked from 1997 to 2005 as a senior bridge engineer at J. Muller International and Parsons Corporation and he is a registered Professional Engineer in the Commonwealth of Virginia. Prof. Moen's primary research interests are in lifecycle reliability and engineering for endurance applied to building structural systems and transportation infrastructure. Dr. Moen teaches courses in thin-walled structures, structural stability with an emphasis on geometrically nonlinear simulation-based structural analysis, and steel building design. Moen is president and CEO of NBM Technologies, Inc. (www.nbmtech.com) headquartered in Blacksburg, VA.

Education:

2004-2008 PhD Civil Engineering, The Johns Hopkins University

1995-1997 MS Civil Engineering, University of Virginia

Elastic Buckling of Thin-Walled Structural Components with Stiffened Holes



Cris Moen, Virginia Tech
Cheng Yu, University of North Texas

51st AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics, and Materials Conference
Monday, April 12, 2010

1991-1995 BS Civil Engineering, University of Virginia

Research Interests:

Thin-walled structures; Cold-formed steel; Cement-based composites; earthquake engineering

Award:

2016 Structural Stability Research Council (SSRC) McGuire Award for Junior Researchers (MAJR) Medal

Selected Publications:

- Moen, C.D., and Schafer, B.W. (2006). "Impact of holes on the elastic buckling of cold-formed steel columns with applications to the Direct Strength Method." Eighteenth International Specialty Conference on Cold-Formed Steel Structures, Orlando, FL, 269-283.
- Moen, C.D. (2008). "Direct Strength Design for Cold-Formed Steel Members with Perforations," Ph.D. Thesis, Johns Hopkins University, Baltimore.
- Christopher D. Moen and B.W. Schafer, "Simplified methods for predicting elastic buckling of cold-formed steel structural members with holes", 19th International Specialty Conference on Cold-Formed Steel Structures, St. Louis, Missouri, USA, October 14-15, 2008
- Moen C.D. & Schafer B.W. (2009). "Elastic buckling of thin plates with holes in compression or bending" *Thin-Walled Structures*, 47, 1597-1607
- Moen C., Schafer, W. B., Elastic buckling of cold-formed steel columns and beams with holes, *Journal of Engineering Structures*, 31, 12, pp. 2812–2824, 2009.
- Schafer B.W., Li Z. & Moen C.D. (2010). "Computational modeling of cold-formed steel" *Thin-Walled Structures*, 48, 752-762.
- Moen, C., Schafer, W. B., Direct strength method for design of cold-formed steel columns with holes, *Journal of Structural Engineering*, 137, 5, pp. 559–570, 2011.
- H. Foroughi, C.D. Moen, A. Myers, M. Tootkaboni, L. Vieira, B.W. Schafer, "Analysis and Design of Thin Metallic Shell Structural Members – Current Practice and Future Research Needs", *Proceedings of the Annual Stability Conference*, Structural Stability Research Council (SSRC), Toronto Canada, March 25-28, 2014
- Chatterjee, A. Algara, A., Castano, F., Moen, C.D. (2014). "Thin-Walled Cold-Formed Steel Welded Tube Design in a Long Span Dome". *Proceedings of the ASCE Structures Congress*, Boston, MA
- McAnallen, L.E., D.A. Padilla-Llano, X. Zhao, C.D. Moen, B.W. Schafer, M.R. Eatherton (2014). "Initial Geometric Imperfection Measurement and Characterization of Cold-Formed Steel C-Section Structural Members with 3D Non-Contact Measurement Techniques." *Proceedings of the Structural Stability Research Council*, Toronto, Canada.
- Junle Cai, Zhanjie Li, Cristopher Moen, Mihai Nedelcu, Benjamin Schafer, "Automated modal identification for thin shell finite element eigen-buckling solutions", *EMI 2014 Engineering Mechanics Institute Conference* August 5-8, 2014