

THOMAS SPUTO, PH.D., P.E.
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1 AREAS OF SPECIALIZATION:

- a. *Structural design of buildings*
Design and analysis of building structures considering strength, stability and serviceability.
- b. *Stability design of thin-walled structures*
Design and analysis of slender metallic elements, especially cold-formed steel elements, members and structures.
- c. *Professional practice of engineering*
Building code development, business and professional practice aspects of structural engineering and construction, entrepreneurship.

2. EDUCATIONAL BACKGROUND:

University of Florida	Civil Engineering	Ph.D.	1990
University of Florida	Civil Engineering	ME	1983
The Citadel	Civil Engineering	BSCE	1982

3. EMPLOYMENT:

a. *Professional Employment:*

Sputo and Lammert Engineering, LLC Gainesville, FL	Partner Consulting Structural Engineer	Nov 2005 – present
Sputo Engineering Gainesville, FL	Owner Consulting Structural Engineer	Nov 1987 – Nov 2005
United States Army Ft. Drum, NY	Commissioned Officer U.S. Army Corps of Engineers	Aug 1983 – Oct 1987

b. *Academic Employment:*

University of Florida Dept. of Civil and Coastal Engineering	Senior Lecturer (0.50 FTE) (not tenure-accruing)	Aug 2005 – present
University of Florida Dept. of Civil and Coastal Engineering	Lecturer (0.50 FTE) (not tenure-accruing)	Jan 2002 – Aug 2005
University of Florida Dept. of Civil and Coastal Engineering	Instructor (0.50 FTE) (not tenure-accruing)	Aug 2001 – Dec 2001
University of Florida Dept. of Civil and Coastal Engineering	Adjunct Assistant Professor (Part-Time) (not tenure-accruing)	Aug 1996 – Aug 2001
University of Florida Department of Civil Engineering	Adjunct Assistant Professor (Part-Time) (not tenure-accruing)	Aug 1993 – Sept 1994

b. *Refereed Publications* (quantity 35):

(1) Refereed Journals, excluding refereed proceedings (quantity 14):

Sputo, T. and Lammert, K. (2007) "Load proportion factors for metal railing systems." *ASCE Journal of Architectural Engineering*. Vol. 13, No. 3, pp. 144-151

Tovar, J. and Sputo, T. (2005). "Application of direct strength method to axially loaded, perforated cold-formed steel cee studs: distortional and local buckling." *Thin Walled Structures*. Vol. 43, No. 12, pp. 1882-1912.

Sputo, T., and Tovar, J. (2005). "Application of direct strength method to axially loaded, perforated cold-formed steel cee studs: longwave buckling." *Thin Walled Structures*. Vol. 43, No. 12, pp. 1852-1881.

Chancey, R., Sputo, T., Minchin, E., and Turner, J. (2005). "Justifiable precision and accuracy in structural engineering calculations: in search of a little less precision and supposed accuracy." *ASCE Practice Periodical on Structural Design and Construction*, August 2005.

Sputo, T. (2002). "Comparison of design specifications for design of pipe and round HSS pedestrian guardrail systems." *American Institute of Steel Construction (AISC) Engineering Journal*, Vol. 39, No. 2, pp. 86-90.

Ellifritt, D. S., and Sputo, T. (1999). "Design criteria for stiffened seated connections to column webs." *AISC Engineering Journal*, Vol. 36, No. 4, pp. 160-168.

Sputo, T. (1993). "Design of pipe column base plates under gravity load." *AISC Engineering Journal*, Vol. 30, No. 2, pp. 41-43.

Sputo, T. (1993). "Sinkhole damage to masonry structure." *American Society of Civil Engineers (ASCE) Journal of Performance of Constructed Facilities*, Vol. 7, No. 1, pp. 67-72.

Sputo, T. (1993). "History of steel beam-column design." *ASCE Journal of Structural Engineering*, Vol. 119, No. 2, pp. 547-557.

Sputo, T. (1992). "Wind resistant residential construction: Some commonly overlooked points." *International Journal for Housing Science and Its Applications*, Vol. 16, No. 4, pp. 231-236.

Ellifritt, D. S., Wine, G., Sputo, T., and Samuel, S. (1992). "Flexural strength of WT sections." *AISC Engineering Journal*, Vol. 29, No. 2, pp. 67-74.

Sputo, T., and Ellifritt, D. S. (1991). "Collapse of metal building system during erection." *ASCE Journal of Performance of Constructed Facilities*, Vol. 5, No. 4, pp. 251-257.

Sputo, T. (1990). "LRFD beam tables for structural tubes." *AISC Engineering Journal*, Vol. 27, No. 3, pp. 111-113.

Sputo, T. (1990). "Should there be a design requirement for the Ph.D. degree?" *ASCE Journal of Professional Issues in Engineering*, Vol. 116, No. 2, pp. 190-193.

(2) Refereed Proceedings (quantity 21):

Sputo, T., and Beery, K. (2006). "Accumulation of Bracing Strength and Stiffness Demand in Cold-Formed Steel Stud Walls." *Proceedings, 18th International Specialty Conference on Cold-Formed Steel*, Orlando, FL, 15 pages, single-spaced.

Sputo, T., and Turner, J. (2006). "A design guide for bracing cold-formed steel structures." *Proceedings, 18th International Specialty Conference on Cold-Formed Steel*, Orlando, FL, 10 pages, single-spaced.

Tovar, J., and Sputo, T. (2006). "Local and distortional buckling of cold-formed steel studs using direct strength." *Proceedings, 18th International Specialty Conference on Cold-Formed Steel*, Orlando, FL, 15 pages, single-spaced.

- Sputo, T., and Tovar, J. (2006). “Longwave buckling of cold-formed steel studs using direct strength buckling.” *Proceedings, 18th International Specialty Conference on Cold-Formed Steel*, Orlando, FL, 15 pages, single-spaced.
- Chen, H., LaBoube, R., Murray, T., and Sputo, T. (2006). “AISI new test procedures for cold-formed steel members and connections.” *Proceedings, 18th International Specialty Conference on Cold-Formed Steel*, Orlando, FL, 11 pages, single-spaced.
- Green, P.S., Sputo, T. and Urala, V. (2004). “Bracing strength and stiffness requirements for axially loaded lipped cee studs.” *Proceedings, 17th International Specialty Conference on Cold-Formed Steel*, Orlando, FL, 22 pages, single-spaced.
- Green, P.S., Sputo, T. and Urala, V. (2004). “Strength and stiffness of conventional bridging systems for cold-formed cee studs.” *Proceedings, 17th International Specialty Conference on Cold-Formed Steel*, Orlando, FL, 16 pages, single-spaced.
- Sputo, T., Green, P.S., and Bergeron, A. (2004). “Improved ponding criteria for cantilever framing systems.” *Proceedings, American Society of Civil Engineers (ASCE) Structures Congress*, Nashville, Tennessee, 11 pages, single-spaced (on CD).
- Green, P.S., and Sputo, T., (2004). “Uplift capacity of K-series open web steel joist seats.” *Proceedings, ASCE Structures Congress*, Nashville, Tennessee, 10 pages, single-spaced (on CD).
- Lewinger, C.V., Green, P.S., Sputo, T., and Nguyen, L.A. (2003). “Improved fire resistant design of structural steel buildings using high-performance steels.” *Proceedings, Response of Structures to Extreme Loadings*, Toronto, Ontario, Canada, 9 pages, single-spaced (on CD).
- Sputo, T., and Green, P.S. (2003). “Bracing Strength and Stiffness Demand of Axially Loaded Cold-Formed Lipped Cee Studs.” *Proceedings, SSRC Annual Stability Conference*, Baltimore, Maryland, pp. 51-84.
- Sputo, T. (2002). “Care and feeding instructions for your adjunct faculty.” *Proceedings, American Society of Engineering Education (ASEE) Southeastern Sectional Annual Meeting*, Gainesville, Florida, 8 pages, single-spaced (on CD).
- Green, P. S., Veltri, P., and Sputo, T. (2002). “A visualization tool for teaching structural steel connection design.” *Proceedings, ASEE Southeastern Section Annual Meeting*, Gainesville, Florida, 13 pages, single-spaced (on CD).
- Ellifritt, D. S., and Sputo, T. (1998). “Design criteria for stiffened seated connections to column webs.” *Proceedings, American Institute of Steel Construction (AISC) National Steel Construction Conference*, New Orleans, Louisiana, pp. 12-1 – 12-29.
- Ellifritt, D. S., Sputo, T., and Miller, A. S. (1995). “Stiffened seated connections on column webs.” *Proceedings, Third International Conference on Steel Connections*, Trento, Italy, pp. 179-189.
- Sputo, T. (1994). “Innovative design of gable frame buildings.” *Proceedings, AISC National Steel Construction Conference*, Pittsburgh, Pennsylvania, pp. 21-1 – 21-17.
- Sputo, T. (1994). “Innovative design of gable frames - one engineer’s experience.” *Proceedings, ASCE Structures Congress*, Atlanta, Georgia, pp. 337-392.
- Sputo, T. (1992). “Erection instability of a light steel frame.” *Proceedings, ASCE Structures Congress*, San Antonio, Texas, pp. 761-764.
- Ellifritt, D. S., Sputo, T., and Haynes, J. R. (1992). “Flexural strength and stiffness of discretely braced channels and zees.” *Proceedings, 11th International Specialty Conference on Cold-Formed Steel Structures*, St. Louis, Missouri, pp. 109-129.
- Sputo, T., and Ellifritt, D. S. (1991). “Proposed design criteria for stiffened seated connections to column webs.” *Proceedings, AISC National Steel Construction Conference*, Washington, D.C., pp. 8-1 – 8-26.

Ellifritt, D. S., and Sputo, T. (1991). “Stiffened beam seats on wide-flange column webs.” *Proceedings, International Conference on Steel and Aluminum Structures*, Singapore, pp. 129-139.

c. *Non-refereed Publications* (quantity 5):

Research Reports (quantity 4):

Green, P. S., Sputo, T., and Urala, V. (2004). “Bracing Requirements of Cold-Formed Steel Cee-Studs Subjected to Axial Compression.” *Final Report*, University of Florida Project No. 4904-4504-847-12, Gainesville, FL, for American Iron and Steel Institute, July, 173 pages.

Green, P. S., and Sputo, T. (2001). “Teaching Connection Design Using the Steel Sculpture as a Toolkit.” *Final Report*, University of Florida Project No. 4904-4504-830-12, Gainesville, FL, for American Institute of Steel Construction, May, 85 pages.

Green, P. S., and Sputo, T. (2000). “Uplift Capacity of K-series Open Web Steel Joist Seats.” *Final Report*, University of Florida Project No. 4904-4504-761-12, Gainesville, FL, for Vulcraft, Division of Nucor Corporation, November, 80 pages.

Ellifritt, D. S., Sputo, T., and Haynes, J. R. (1991). “Flexural Strength and Deflections of Discretely Braced Cold Formed Steel Channel and Zee Sections.” *Final Report*, University of Florida Project No. 4904-4504-323-12, Gainesville, FL, for the American Iron and Steel Institute, June, 83 pages.

Non-Refereed Journal Papers (quantity 1):

Sputo, T. (2004). “Care and feeding instructions for engineering adjunct faculty.” *ASCE Journal of Professional Issues in Engineering Education and Practice*, 13 pages, double-spaced. Accepted 15 November 2004

d. *Reviews*:

Sputo, T. (2004). Review of “Army Engineers’ Contributions to the Development of Iron Construction in the Nineteenth Century (Essays in Public Works History 21).” By Sara E. Wermiel. *Industrial Archaeology*, Vol. 28, No. 2, p. 38.

6. LECTURES, SPEECHES, OR POSTERS PRESENTED AT PROFESSIONAL CONFERENCES/MEETINGS:

NATIONAL (quantity 9):

“A design guide for bracing cold-formed steel structures.” 18th International Specialty Conference on Cold-Formed Steel, Orlando, FL, October, 2006. (with a refereed paper).

“Bracing strength and stiffness requirements for axially loaded lipped cee studs.” 17th International Specialty Conference on Cold-Formed Steel, Orlando, FL, November 2004 (with a refereed paper).

“Strength and stiffness of conventional bridging systems for cold-formed cee studs.” 17th International Specialty Conference on Cold-Formed Steel, Orlando, FL, November 2004 (with a refereed paper).

“Bracing Strength and Stiffness Demand of Axially Loaded Cold-Formed Lipped Cee Studs.” An invited presentation for the Structural Stability Research Council Annual Stability Conference, Baltimore, Maryland, April, 2003 (with a refereed paper).

“Care and feeding instructions for your adjunct faculty.” ASEE Southeastern Sectional Annual Meeting, Gainesville, Florida, April 2002 (with a refereed paper).

“Innovative design of gable frame buildings.” AISC National Steel Construction Conference, Pittsburgh, Pennsylvania, June, 1994 (with a refereed paper).

“Innovative design of gable frames - one engineers experience.” ASCE Structures Congress, Atlanta, Georgia, May 1994 (with a refereed paper).

“Erection instability of a light steel frame.” ASCE Structures Congress, San Antonio, Texas, May 1992 (with a refereed paper).

“Proposed design criteria for stiffened seated connections to column webs.” AISC National Steel Construction Conference, Washington, D.C., June 1991 (with a refereed paper).

6. MEMBERSHIP AND ACTIVITIES IN THE PROFESSION:

a. Professional Registration:

Mississippi	Professional Engineer (PE)	(#14540)	2000-current
Alabama	PE	(#22068)	1997-current
North Carolina	PE	(#23388)	1997-current
Florida	Special (Threshold) Inspector	(#1037)	1994-current
Georgia	PE	(#21537)	1994-current
South Carolina	PE	(#16321)	1994-current
–	NCEES Council Record	(#12766)	1994-current
Florida	PE	(#39142)	1987-current
Virginia	PE	(#17746)	1987-current
Louisiana	PE	(#33293)	2007-current

b. Professional Certifications:

Structural Engineering Certification Board Certified Structural Engineer (#1558-0705) 2005-current

c. Professional Organization and Committee Membership:

American Institute of Steel Construction (AISC), Professional Member	1989-current
American Iron and Steel Institute - Committee on Specifications for the Design of Cold-Formed Steel Structural Members (AISI-COS), Member:	
• CF00 Committee on Specifications	1997-current
• CF03 Connections	1995-current
• CF04 Studs	2001-current
• CF06 Test Procedures	2002-current
– Subcommittee Chairman	2003-current
• CF21 Strategic Planning	2003-current
• CF22 Compression Members	1992-current
– Task Group on Torsional Effects	2000-current
• CF24 Flexural Members	1992-current
American Society of Civil Engineers (ASCE), Member:	1982-current
• Structural Engineering Institute	2000-current
• Committee on Cold-Formed Steel	2001-current
– Committee Chairman	Beginning July 2005
• Committee on Flexural Members	1990-1993
• Committee on Structural Connections	1991-1994
Florida Structural Engineers Association (FSEA), Member	1997-current
Cold-Formed Steel Engineers Institute (CFSEI), Member:	1996-current
• CFSEI Research Development Committee	2001-2005
• Founding Director, CFSEI Florida Chapter	2006 -current

Structural Stability Research Council (SSRC), Member-at-Large: 1999-current
• TG13 Thin Walled Structures 1999-current

d. Local Professional Activities:

City of Gainesville Historic Preservation Board:
• Board (Engineer) Member 1993-2000
• Board Chairman 1997-2000
• Task Group on Building Codes for Historic Structures 1997-1998

Alachua Habitat for Humanity:
• Structural Engineering Consultant (Pro Bono) 1999-current

Putnam Habitat for Humanity:
• Structural Engineering Consultant (Pro Bono) 2001-current

8. HONORS:

• ASCE Faculty Advisor National Certificate of Commendation 2004, 2005,
2006, 2007
• Chi Epsilon (National Civil Engineering Honor Society) 2002
• James F. Lincoln Arc Welding Foundation Pre-Professional Program Merit Award 1991
• Tau Beta Pi (National Engineering Honor Society) 1982
• Phi Kappa Phi (National Scholastic Honor Society) 1982
• Colonel Louis Sheppard LeTellier Award (First Honor Graduate in C.E.), The Citadel 1982

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