Professor Teoman Peköz

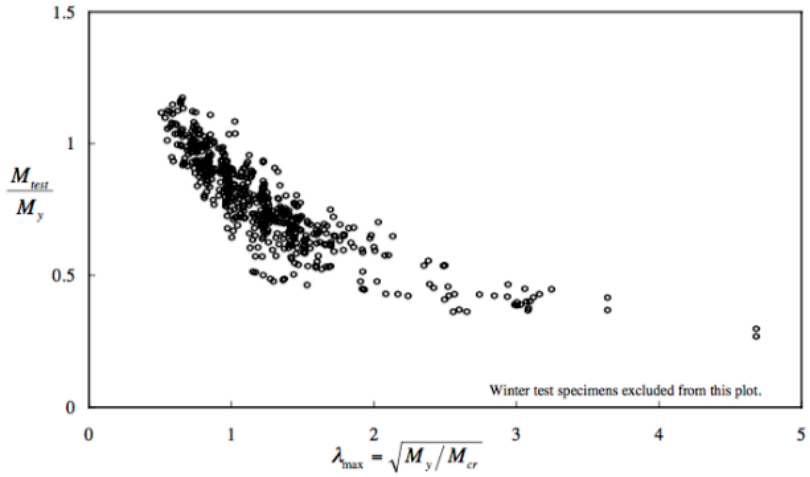

Figure 1: Slenderness vs. strength for the experimental data

The slenderness of each member is determined from the minimum critical buckling moment (M_{cr}) and the yield moment (M_y).

From: B.W. Schafer and T. Peköz, "Direct Strength Prediction Of Cold-Formed Steel Members Using Numerical Elastic Buckling Solutions", Fourteenth International Specialty Conference on Cold-Formed Steel Structures, St. Louis, Missouri, October 15-16, 1998

See:
http://www.cee.cornell.edu/people/em-profile.cfm?netid=tp26
http://ceeserver.cee.cornell.edu/tp26/recent_papers.htm

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Biography:
Prior to joining the Cornell faculty in 1970, Prof. Peköz worked in consulting and aerospace engineering firms. He is the recipient of the Structural Engineering Institute 2003 Shortridge Hardesty Award "In recognition for sustained and substantial contributions to the field of structural stability during his career of active teaching and research." He was also awarded an honorary professorship by Xian Institute of Metallurgy and Construction Engineering, Xian, People's Republic of China. At Cornell, he was elected Chi Epsilon Outstanding Professor of the year in 1981. He was a visiting professor at several universities in Europe, and over the years has conducted short courses both in the United States and abroad. He has authored major portions of the Specifications and Recommendations on Cold-Formed Steel Structures and on Aluminum Structures in the United States and Europe. He is currently a member or chair of several committees working on these specifications and recommendations in the U.S. and Europe. Many of the provisions for thin-walled-steel design specifications in the United States and abroad as well as some of the new provisions in the Aluminum Association Specifications for Aluminum Structures are based on the research conducted at Cornell University under his direction. Because of his work on aluminum structures, Cornell University is designated a Center of Excellence in Aluminum Structural Design.

Selected Publications:

De Wolf JT, Pekoz T, Winter G. Local and overall buckling of cold formed members. Proc ASCE 1974;100(ST10):2017–36.
Mulligan GP, Pekoz T (1984) Locally buckled thin-walled columns. J Struct Eng 110(11):2635–2654
Pekoz, T., 1987. Development of a Unified Approach to the Design of Cold-formed Steel Members. Research Report CF 87-1, American Iron and Steel Institute.
Schafer BW, Pekoz T. The behavior and design of longitudinally stiffened thin-walled compression elements. Thin-Wall Struct 1997;27(1):65–78
B.W. Schafer and T. Pekoz, Computational modeling of cold-formed steel: characterizing geometric imperfections and residual stresses. Journal of Constructional Steel Research, 47, 193–210, 1998
B.W. Schafer, M. Grigoriu and T. Pekoz, A probabilistic examination of the ultimate strength of cold-formed steel elements, Thin-Walled Structures 31 (1998) 271–288.
B.W. Schafer and T. Peköz, "Direct Strength Prediction Of Cold-Formed Steel Members Using Numerical Elastic Buckling Solutions", Fourteenth International Specialty Conference on Cold-Formed Steel Structures, St. Louis, Missouri, October 15-16, 1998