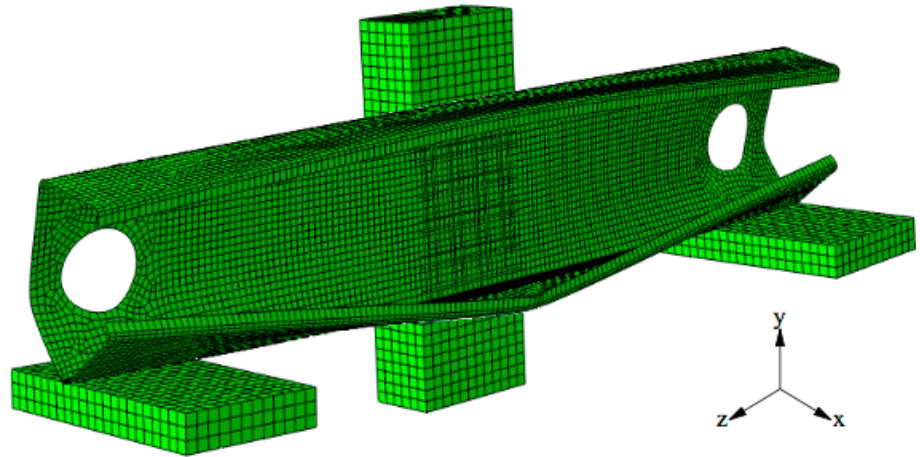




Professor James B. P. Lim



From: Ying Lian, Md Asraf Uzzaman, James B.P. Lim, Gasser Abdelal, David Nash and Ben Young, "Effect of web holes on web crippling strength of cold-formed steel channel sections under end- one-flange loading condition - Part I: Tests and finite element analysis", *Thin-Walled Structures*, 107. pp. 443-452, 2016

See:

<https://unidirectory.auckland.ac.nz/profile/james-lim>

https://www.researchgate.net/profile/James_Lim2

https://www.omicsonline.org/editor-profile/James_B_P_Lim/

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Biography:

My PhD was on the topic of cold-formed steel portal frames supervised by Professor D.A. Nethercot. Following this, I spent five years working at the Steel Construction Institute (The SCI), where I extended my research interests to include hot-rolled steel, composite construction and fire. I have been a full-time academic since 2007, working at the University of Strathclyde, Glasgow, and Queen's University, Belfast, before joining the University of Auckland in 2014. To date, I have authored slightly over 70 journal papers and supervised ten PhD students to completion, three of whom are pursuing full-time academic careers. My research is dominated in trying to understand fundamental structural behavior, for which I employ a combination of full-scale testing and finite element modeling. More recently, my research includes structural engineering applications to Building Information Modeling (BIM). A recent paper entitled "Finite element investigation of cold-formed steel portal frames in fire" describes how a BIM model was moved to ABAQUS and subsequently used to investigate the behavior of portal frames in fire; this paper won the Palmer Prize.

Research Interests:

Portal frames, Thin-walled structures, Cold-formed steel structures, Steel structures, Structural dynamics and earthquake engineering, Composite construction

Selected publications:

J.B.P. Lim, D.A. Nethercot Ultimate strength of bolted moment-connections between cold-formed steel members *Thin Wall Struct.*, 41 (2003), pp. 1019–1039

J.B.P. Lim, D.A. Nethercot Finite element idealization of a cold-formed steel portal frame *J. Struct. Eng. – ASCE*, 130 (2004), pp. 78–94

Asraf Uzzaman, James B.P. Lim, David Nash, Jim Rhodes and Ben Young, “Web crippling behaviour of cold-formed steel channel sections with offset web holes subjected to interior-two-flange loading”, *Thin-Walled Structures*, Vol. 50, pp 78-86, January 2012

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James B.P. Lim, Gregory J. Hancock, G. Charles Clifton, Cao Hung Pham and Raj Das, “DSM for ultimate strength of bolted moment-connections between cold-formed steel channel members”, *Journal of Constructional Steel Research*, Vol. 117, pp 196-203, February 2016

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Amir M Yousefi, James BP Lim, Asraf Uzzaman, Ying Lian, G Charles Clifton, Ben Young, “Web crippling strength of cold-formed stainless steel lipped channel-sections with web openings subjected to interior-one-flange loading condition”, *Steel and Composite Structures*, 21 (3). pp. 629-659, 2016

Amir M. Yousefi, Asraf Uzzaman, James B.P. Lim, G. Charles Clifton and Ben Young, “Numerical investigation of web crippling strength in cold-formed stainless steel lipped channels with web openings subjected to interior-two-flange loading condition”, *Steel and Composite Structures*, Vol. 23, No. 4, pp 363-383, February 2017

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Asraf Uzzaman, James B.P. Lim, David Nash and Ben Young, “Effects of edge-stiffened circular holes on the web crippling strength of cold-formed steel channel sections under one-flange loading conditions”, *Engineering Structures*, Vol. 139, pp 96-107, May 2017

Amir M. Yousefi, James B.P. Lim and G. Charles Clifton, “Cold-formed ferritic stainless steel unlipped channels with web openings subjected to web crippling under interior-two-flange loading condition – Part 1: Tests and finite element model validation”, *Thin-Walled Structures*, Vol. 116, pp 333-341, July 2017

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Amir M. Yousefi, James B.P. Lim and G. Charles Clifton, "Web bearing capacity of unlipped cold-formed ferritic stainless steel channels with perforated web subject to end-two-flange (ETF) loading", *Engineering Structures*, Vol. 152, pp 804-818, December 2017

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