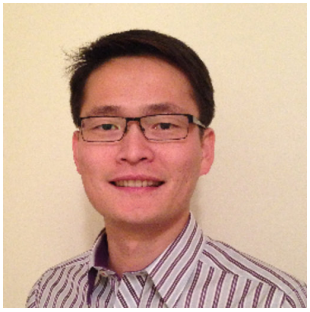

Dr. Wensu Chen

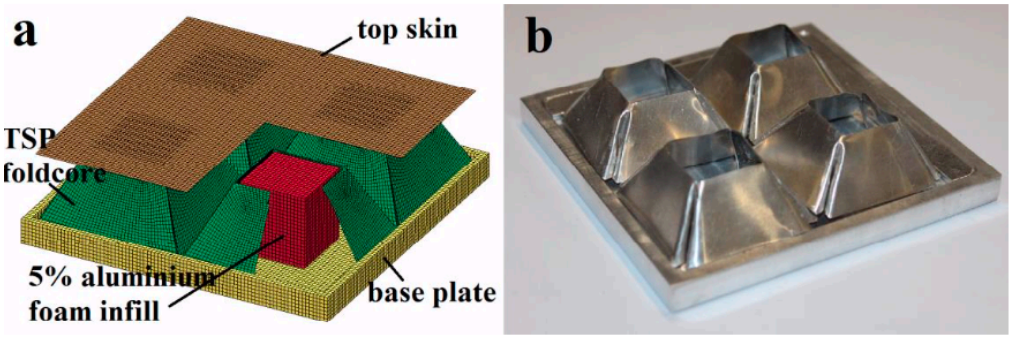

Figure 1. (a) Numerical model of TSP foldcore with cubic aluminium foam infill, a quarter part is cut out for illustration; (b) hand-fold TSP foldcore sample with four unit cells previously used for quasi-static crushing test

From: Zhejian Li, Cheng Xu, Hong Hao,Wensu Chen, "Cladding blast mitigation performance of folded truncated square pyramid with infilled aluminium foam as core", International Conference on Protective Structures, Posnan, Poland (ICPS52018), August 20-24, 2018

See:
https://www.researchgate.net/profile/Wensu_Chen
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Biography, etc.:

Dr. Wensu Chen is Senior Lecturer and ARC DECRA Fellow in the School of Civil and Mechanical Engineering and Director of Centre for Infrastructural Monitoring and Protection (CIMP) at Curtin University. He received his BE and Msc in civil engineering at Tianjin University, and then worked as a design engineer in civil engineering for three years. After that, he obtained his ME from the University of Melbourne and Ph.D in structural engineering from the University of Western Australia. Dr. Chen has been granted ARC Discovery Early Career Researcher Award (ARC DECRA). He currently is a Committee member of Structures Panel WA Division, Engineers Australia and serves as grants assessor for Australian Research Council. His research interests are primarily in structural protection against hazards such as blast and impact loads, development of novel protective structures, structural strengthening and dynamic material behaviors.

Research Interests:

Structural dynamics; Load prediction and structural response to blast and impact loads; Development of novel protective structures against blast and impact loads; Structural strengthening; Material behaviors; Prefabricated and modular construction

Selected Publications:

Wensu Chen and Hong Hao, "Numerical Study Of Blast-Resistant Sandwich Panels With Rotational Friction Dampers", International Journal of Structural Stability and Dynamics, Vol. 13, No. 5, 1350014, 2013
Wensu Chen and Hong Hao, "Numerical Simulations of Stiffened Multi-arch Double-layered Panels Subjected to Blast Loading", International Journal of Protective Structures, Vol. 4, No. 2, 2013
Wensu Chen and Hong Hao, "Experimental investigations and numerical simulations of multi-arch double-layered panels under uniform impulsive loadings", International Journal of Impact Engineering, Vol. 63, pp 140-157, January 2014
Shuyang Chen, Hong Hao and Wensu Chen, "Numerical Modelling Of Structural Insulated Panel With Oriented Strand Board Subjected To Blast Loads", EASEC-14, 6-8 January, 2016, Ho Chi Minh City, Vietnam

Zhejian Li, Wensu Chen, Hong Hao, “Blast resistant performance of multi-layer square dome shape kirigami folded structure”, Sixth International Conference on Design and Analysis of Protective Structures (DAPS 2017), 2017

Zhejian Li, Wensu Chen, Hong Hao, “Numerical Study Of Folded Dome Shape Aluminium Structure Against Flatwise Crushing”, 12th International Conference on Shock and Impact Loads on Structures, 15-16 June 2017, Singapore

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Zhejian Li, Wensu Chen and Hong Hao, “Numerical study of open-top truncated pyramid folded structures with interconnected side walls against flatwise crushing”, Thin-Walled Structures, Vol. 132, pp 537-548, November 2018

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