

Appendix A Internal Research Funds from Research Committee, The Hong Kong Polytechnic University

Total sum at HK\$6.38 millions

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| Feb 1998 to
Dec 1998 | Mechanical enhancement of connections between cold formed steel members
Research funded by the <i>PolyU Research Committee</i> at HK\$220,000. |
| Sep 1998 to
Sep 2001 | Bolted moment connections in cold-formed steel structures (MPhil study)
Research funded by the <i>PolyU Research Committee</i> 1998/99 at HK\$450,430. |
| Sep 1999 to
Aug 2003 | Structural behaviour of tubular skeletal framework (PhD study)
Research funded by the <i>PolyU Research Committee</i> 1999/00 at HK\$819,760. |
| Sep 2000 to
Aug 2004 | Structural behaviour of modern purlin systems using lapped cold formed steel Z sections (PhD study)
Research funded by the <i>PolyU Research Committee</i> 2000/01 at HK\$819,760. |
| Oct 2000 to
Sept 2002 | Structural behaviour of cold-formed steel portal frames
Research funded by the <i>PolyU Research Committee</i> 2000/01 at HK\$200,000. |
| Aug 2002 to
July 2006 | Advanced nonlinear finite element investigation into structural behaviour of composite beams (PhD study)
Research funded by the <i>PolyU Research Committee</i> 2002/03 at HK\$800,880. |
| Nov 2004 to
Nov 2005 | Structural instability of cold-formed metal standing seam roofs
Research funded by the <i>PolyU Research Committee</i> 2004/05 at HK\$200,000. |
| Sep 2004 to
Aug 2006 | Local and distortional buckling in modern metal roof structures (MPhil study)
Research funded by the <i>PolyU Research Committee</i> 2004/05 at HK\$320,000. |
| Sep 2006 to
Aug 2008 | Coupled instability in thin-walled members - Behaviour, analysis & design development
Research funded by the <i>PolyU Research Committee</i> 2006/07 at HK\$150,000. |
| Aug 2007 to
Jul 2011 | Structural behaviour of steel-concrete composite structures in fires (PhD study)
Research funded by the <i>PolyU Research Committee</i> 2007/08 at HK\$750,000. |
| Jul 2009 to
Jun 2011 | Structural behaviour of joints in hybrid structures for super-highrise buildings
Research funded by the <i>PolyU Research Committee</i> 2009/10 at HK\$150,000. |
| Jan 2010 to
Dec 2012 | Deformation characteristics and ductility of shear connectors in high performance steel-concrete composite structures under complex loading conditions (PhD study)
Research funded by the <i>PolyU Research Committee</i> 2009/10 at HK\$750,000. |
| Aug 2012 to
Jul 2015 | Joint behaviour of cold-formed steel built-up sections with intermediate stiffeners (PhD study)
Research funded by the <i>PolyU Research Committee</i> 2011/12 at HK\$750,000. |

Appendix B1 External Research Funds from Competitive Research Grants CERG and GRF*Total sum at HK\$6.0 millions*

- Oct 1997 to Sept 2000 **A unified approach for beams with large single and multiple web openings in strength and stiffness optimized for full integration with building services**
Research funded by the *Research Grants Council (RGC)* 1996/97 at HK\$739,200.
- Oct 1998 to Sept 2001 **Moment connections among cold-formed steel members in buildings**
Research funded by the *Research Grants Council (RGC)* 1997/98 at HK\$736,000.
- Nov 1999 to Oct 2001 **Structural performance of roof systems using cold-formed steel purlins with compound sections**
Research funded by the *Research Grants Council (RGC)* 1998/99 at HK\$660,000.
- Dec 2000 to Nov 2002 **Predicting the load carrying capacity of press-braked cold-formed steel sections with initial imperfection by the finite strip method**
Research funded by the *Research Grants Council (RGC)* 1999/00 at HK\$660,000. (Co-Investigator).
- Dec 2001 to Nov 2003 **Structural behaviour of cold-formed steel portal frames using nested C-sections**
Research funded by the *Research Grants Council (RGC)* 2001/02 at HK\$718,757.
- Dec 2002 to Dec 2004 **Advanced finite element investigation on numerically cold-formed steel sections**
Research funded by the *Research Grants Council (RGC)* 2002/03 at HK\$423,404.
- Dec 2003 to Dec 2005 **A unified design approach on web crippling in cold-formed steel sections**
Research funded by the *Research Grants Council (RGC)* 2003/04 at HK\$324,000.
- Dec 2005 to Dec 2007 **Combined bending and shear in cold-formed steel sections**
Research funded by the *Research Grants Council (RGC)* 2005/06 at HK\$359,224.
- Dec 2007 to Dec 2009 **Design development on screwed shear and moment connections between cold-formed steel members**
Research funded by the *Research Grants Council (RGC)* 2007/08 at HK\$391,581.
- Jan 2011 to Dec 2013 **Developing system-based analysis and design for multi-span partially restrained Dec 2013 cold-formed steel purlin systems**
Research funded by the *General Research Fund (UGC)* 2010/11 at HK\$907,500.

Appendix B2 External Research Funds from various organizations including ITF

Total sum at HK\$8.0 millions.

- Nov 1997 **Safe hoarding through rational design and construction using cold-formed steel sections**
to Sep 998
Research funded by *Edward Sai Kim Hotung Research Fund* 1996/97 at HK\$180,000.
- Oct 1999 **Bamboo scaffolding in building construction**
to Dec 2000
Contracted research funded by *International Network of Bamboo and Rattan* at HK\$385,000.
- May 2010 **Enhanced ductility and service life of galvanized structural steel members**
to Apr
2012
Research funded by the *Innovation and Technology Funds* under the *Innovation and Technology Commission* of the Government of Hong Kong SAR at HK\$4,977,000.
- May 2012 to **Development of a textile reinforced shotcrete system for repair of fire-damaged planar reinforced concrete members**
Apr 2013
Research funded by the Construction Industry Institute (Hong Kong) / PolyU Innovation Fund at Hk\$300,000 (Co-investigator).
- May 2012 **Enhanced durability and mechanical performance of structural steel members using an innovative galvanization process**
to Oct 2013
Research funded by the *Innovation and Technology Funds* under the *Innovation and Technology Commission* of the Government of Hong Kong SAR at HK\$2,416,300.

Appendix C Consultancy projects from private and public sectors*Total Sum at HK\$9.0 millions*

- Mar 1997 to
Sept 1997 **Design development on integrated design of cold formed steel products.**
BHP Steel Building Products (Hong Kong) Limited.
- Apr 1998 to
May 1998 **Structural tests on single and double layered scaffolding structures.**
Canyon Development Limited.
- Apr 1998 to
Apr 1999 **Strain measurement on outrigger trusses during construction stage of the Cheung Kong Centre.**
Nippon Steel Corporation.
- Apr 1998 to
Aug 1998 **Structural performance of composite slabs with profiled steel decking.**
BHP Steel Building Products (Hong Kong) Limited.
- Aug 1998 to
Apr 1999 **Field measurement of train movement induced wind pressures on trackside advertising panels at Mei Foo Station and Kowloon Station.**
Mass Transit Railway Corporation.
- Nov 1998 to
May 1999 **Design of tubular scaffolding systems for construction in Hong Kong.**
Wui Loong Scaffolding Works Co. Ltd..
- Jan 1999 **Design validation on cold-formed steel decking and cladding to BS5950.**
P&Ls' Building Materials Limited.
- Apr 1999 to
Jun 1999 **Structural performance of composite slabs with profiled steel decking.**
P&Ls' Building Materials Limited.
- Aug 1999 to
Jun 2002 **Bamboo scaffolding for building construction. (Contracted research)**
International Network for Bamboo and Rattan (INBAR).
- Sept 2000 to
Aug 2001 **Product verification of Bondek II G550 in composite slab construction to BS5950.**
BHP Steel Building Products (Singapore) Ltd..
- Nov 2001 **Structural design of profiled steel cladding to BS5950: Part 6 – Fasdek.**
P & Ls' Engineering Co. Ltd.
- Apr 2002 to
Jul 2002 **Structural design of profiled steel decking to BS5950: Apr 2002 – Rebardek B50.**
P & Ls' Engineering Co. Ltd.
- Apr 2002 to
Aug 2002 **Structural design of profiled steel cladding to BS5950 and profiled aluminum sheeting to BS4868 for Faszip 65 – 300/400/500.**
P & Ls' Engineering Co. Ltd.

- Jan 2003 to Apr 2003 **Structural performance of curved metal roof systems.**
P & Ls' Engineering Co. Ltd.
- Jan 2003 to Dec 2003 **Design development for metal roof and building products.**
P & Ls' Engineering Co. Ltd.
- Feb 2003 to Oct 2004 **Consultancy study on "Structural Use of Steel using a Limit State Approach"**
- A Joint Venture with Ove Arup & Partners Hong Kong Limited.
Buildings Department, the Government of Hong Kong SAR.
- Oct 2003 to Dec 2003 **An investigation into overall collapse of a 37 m high bamboo scaffolds.**
Wong Poon Chan Law & Co.
- Aug 2004 to Mar 2005 **An investigation into pile caps.**
Architectural Services Department, the Government of Hong Kong SAR.
- Dec 2004 to Nov 2005 **Product verification of profiled steel decking Bardek and Gencore.**
GENS Metal Corporation (Taiwan) Ltd.
- Dec 2004 to Jun 2005 **Fire protection to tunnel structures.**
Highways Department, the Government of Hong Kong SAR.
- Mar 2005 to Aug 2005 **Structural design of profiled steel decking Rebardek 50-600 G550 and G600.**
Cold-form Technology Co. Ltd.
- Jul 2005 to Aug 2005 **Structural behaviour of profiled steel decks – Durodek II (S-deck).**
Duro Metal Products (Shenzhen) Co. Ltd.
- Sep 2005 to March 2006 **Practical use of advanced profiled steel decking Bardek in Hong Kong.**
GENS Metal Corporation (Taiwan) Ltd.
- Feb 2006 **One day training course on the design and construction of metal scaffolds.**
Buildings Department, the Government of Hong Kong SAR.
- Mar 2006 **One day training course on the design and construction of bamboo scaffolds.**
Buildings Department, the Government of Hong Kong SAR.
- Jul 2006 to Aug 2006 **Fire engineering performance based design of the steel roof structure of Grand Lisboa Hotel, Macau.**
Maunsell Structural Consultants Limited.
- Jul 2006 to Aug 2006 **Testing of steel walkway panels.**
Wai Hung Construction Engineering Co. Ltd.

- Jul 2006 to
Oct 2006 **Structural verification on anchorage fixture using steel props for safety belts.**
Construction Industry Training Authority.
- Aug 2006 to
Sep 2006 **Design of a steel dome frame.**
Barry Liu & Associates Ltd.
- Jan 2007 **One day training course on scaffolding systems**
Buildings Department, the Government of Hong Kong SAR.
- Jan 2007 to
Mar 2007 **Product development of profiled steel decking Bardek using G550 steel and fire test assessment.**
GENS Metal Corporation (Taiwan) Ltd.
- Jan 2007 to
Mar 2007 **Design development for modern metal roof systems to BS5950: Part 6.**
Cold-form Technology Co. Ltd.
- Apr 2008 to
Oct 2008 **Structural Behaviour of Unprotected Steel Beams in Building Construction**
Institute of Steel Development and Growth (INSDAG), India.
- July 2010 **Structural design of profiled steel decking according to BS5950**
P&L's Engineering Co. Ltd.
- July 2010 to
Oct 2010 **Structural fire engineering consultancy for Tin Shui Wai Public Library cum Indoor Recreation Centre – Structural fire engineering analysis and design**
Ove Arup & Partners Hong Kong Limited for Architectural Services Department, the Government of Hong Kong SAR.

Appendix D1 List of publications: international journal papers

- 1.
2. Lawson RM, Chung KF and Price AM. Tests on composite beams with large web openings to justify existing design methods. *The Structural Engineer*, 70 (1), 1992, 1-7.
3. Chung KF. The state of the art of section property calculation of structural members with arbitrary shape. *Journal of Constructional Steel Research*, 32 (2), 1995, 127-141.
4. Chung KF. Structural performance of cold-formed sections with single and multiple web openings - Experimental investigation. *The Structural Engineer*, 73 (9) 1995, 141-149.
5. Chung KF. Structural performance of cold-formed sections with single and multiple web openings - Design rules. *The Structural Engineer*, 73 (4) 1995, 223-228.
6. Chung KF and St Quinton D. Structural performance of modern roofs with thick over-purlin insulation - experimental investigation. *Journal of Constructional Steel Research*, 40 (1), 1996, 17-38.
7. Chung KF and Lau L. Experimental investigation on bolted moment connections among cold formed steel members. *Engineering Structures*, 21 (10), 1999, 898-911.
8. Chung KF and Lawson RM. Structural performance of shear resisting connection between cold-formed steel sections using web cleats of cold- formed steel strips. *Engineering Structures*, 22 (10), 2000, 1350-1366.
9. Chung KF and Ip KH. Finite element modeling of bolted connections between cold-formed steel strips and hot rolled steel plates under static shear loading. *Engineering Structures*, 22 (10), 2000, 1271-1284.
10. Chung KF and Ip KH. Finite element investigation on the structural behaviour of cold-formed steel bolted connections. *Engineering Structures*, 23 (9), 2001, 1115-1125.
11. Chung KF, Liu TCH and Ko ACH. Investigation on Vierendeel mechanism in steel beams with circular web openings. *Journal of Constructional Steel Research*, 57(5), 2001, 467-490.
12. Chung KF and Lawson RM. Simplified design of composite beams with large web openings to Eurocode 4. *Journal of Constructional Steel Research*, 57,(2), 2001, 135-163.
13. Wong MF and Chung KF. Structural behaviour of bolted moment connections in cold-formed steel beam-column sub-frames. *Journal of Constructional Steel Research*, 58 (2), 2002, 253-274.
14. Chung KF and Yu WK. Mechanical properties of structural bamboo for bamboo scaffoldings. *Engineering Structures*, 24(18), 2002, 429-442.
15. Chung KF. Composite beams and floor systems fully integrated with building services. *Progress in Structural Engineering and Materials*, 4(2), 2002, 169-178.
16. Yu WK, Chung KF and Chan SL. Column buckling of structural bamboo. *Engineering Structures* 25(6), 2003, 755-768.
17. Liu TCH and Chung KF. Steel beams with large web openings of various shapes and sizes: Finite element investigation. *Journal of Constructional Steel Research* 59(9), 2003, 1159-1176.
18. Chung KF, Liu TCH and Ko ACH. Steel beams with large web openings of various shapes and sizes: An empirical design method. *Journal of Constructional Steel Research* 59(4), 2003, 1177-1200.
19. Chung KF. A review of recent developments on design of perforated beams. *International Journal of Applied Mechanics and Engineering* 9:1, 2004, 105-130.
20. Yu WK, Chung KF, and Chan SL. Structural instability of multi-storey door-type modular steel scaffolds. *Engineering Structures* 26 (7), 2004: 867-881.
21. Ho HC and Chung KF. Experimental investigation into the structural behaviour of lapped connections between cold-formed steel Z sections. *Thin-Walled Structures* 42, 2004:1013-1033.
22. Quach WM, Teng, JG and Chung KF. Residual stresses in steel sheets due to coiling and uncoiling: a closed-form analytical solution. *Engineering Structures* 26, 2004: 1249 – 1259.
23. Yu WK and Chung KF. Prediction on load carrying capacities of multi-storey door-type modular steel scaffolds. *Steel and Composite Structures* 4(6), 2004: 471 – 488.

24. Chung KF, Ko CH and Wang AJ. Design of steel and composite beams with web openings – Verification using finite element method. *Steel and Composite Structures* 5 (2-3), April & June 2005: 203 – 234.
25. Yu WK, Chung KF and Chan SL. Axial buckling of bamboo columns in bamboo scaffolds. *Engineering Structures*, 27, 2005: 61-73.
26. Chung KF and Ho HC. Analysis and design of lapped connections between cold-formed steel Z sections. *Thin-Walled Structures*, 43 (7), July 2005: 1071 – 1090.
27. Chung KF, Ho HC and Wang AJ. An investigation into deformation characteristics of lapped connections between cold-formed steel Z sections. *International Journal of Steel Structures*, 5(1), 2005: 23 - 32.
28. Chung KF, Yu W.K. and Wang A.J. Structural performance of cold-formed steel column bases with bolted moment connections. *Steel and Composite Structures*, 5 (4), August 2005: 289 - 304.
29. Yu WK, Chung KF and Wong MF. Analysis of bolted moment connections in cold-formed steel beam-column sub-frames. *Journal of Constructional Steel Research*, 61, September 2005: 1332 - 1352.
30. Chung KF. Structural performance of cold-formed steel structures with bolted connections. *Advances in Structural Engineering*, 8 (3), June 2005: 231-246.
31. Wang XP, Lam SSE, Chung KF. Cross section distortion due to cutting of cold-formed steel lipped C-section. *Thin-Walled Structures* 44 (3) March 2006: 271-280.
32. Ho HC and Chung KF. Analytical prediction on deformation characteristics of lapped connections between cold-formed steel Z sections. *Thin Walled Structures* 44 (1), January 2006: 115-130.
33. Lam SSE, Chung KF, Wang XP. Load-carrying capacities of cold-formed steel cut stub columns with lipped C-section, *Thin-Walled Structures* 44 (10), October 2006: 1077-1083.
34. Ho HC and Chung KF. Structural behavior of lapped cold-formed steel Z sections with generic bolted configurations. *Thin Walled Structures* 44 (4), 2006: 466-480.
35. Quach, W. M., Teng, J. G., and Chung, K. F. Finite element predictions of residual stresses in press-braked thin-walled steel sections, *Engineering Structures* 28, 2006: 1609-1619.
36. Wang AJ and Chung KF. Integrated analysis and design of composite beams with flexible shear connectors under sagging and hogging moments. *Steel and Composite Structures* 6(6), December 2006: 459-478.
37. Chung KF. Structural performance of cold-formed steel structures with bolted connections. *Progress in Steel Building Structures (in Chinese)*, February 2007, 9(1), 18-29.
38. Yam MCH, Lam ACC, Wei F, Chung KF. The local web buckling strength of stiffened coped steel I-beams, *International Journal of Steel Structures*, 7 (2), June 2007: 129-138.
39. Quach WM, Teng JG, and Chung KF. Finite element predictions of residual stresses in cold-formed steel sections, *Progress in Steel Building Structures (in Chinese)*, 9(3), July 2007: 26-32.
40. Tse WT and Chung KF. Web crippling behaviour of laterally restrained re-entrant steel profiled deckings. *Journal of Constructional Steel Research* 64 (7&8), July & August 2008: 785-801.
41. Quach WM, Teng JG, Chung KF. Three-stage full-range stress-strain model for stainless steels. *Journal of Structural Engineering*, 134 (9), September 2008: 1518-1527.
42. Wang AJ and Chung KF. Advanced finite element modeling of perforated composite beams with flexible shear connectors. *Engineering Structures*, 30, 2008: 2724-2738.
43. Chung KF, Ho HC, Wang AJ and Yu WK. Advances in analysis and design of cold-formed steel structures. *Advances in Structural Engineering*, 11 (6) December 2008: pp615-632.
44. Quach WM, Teng JG, and Chung KF. (2009). Residual stresses in press-braked stainless steel sections - I: Coiling and uncoiling of sheets. *Journal of Constructional Steel Research*, 65, 1803-1815.
45. Quach WM, Teng JG, and Chung KF. (2009). Residual stresses in press-braked stainless steel sections - II: Press-braking operations. *Journal of Constructional Steel Research*, 65, 1816-1826.

46. Quach WM, Teng JG, and Chung KF. (2010). Effect of the manufacturing process on the behaviour of press-braked thin-walled steel columns, *Engineering Structures*, 32, 3501-3515.
47. Wei F, Yam CH, Chung KF and Grondin GY. (2010). Tests on block shear of coped beams with a welded end connection. *Journal of Constructional Steel Research*, 66, 1398-1410.
48. Yam Michael CH, Grondin GY, Wei F, and Chung KF. (2011) Design for block shear of coped beams with a welded end connection. *Journal of Structural Engineering, ASCE*. Vol. 137, No.8, 811-821.
49. Yam Michael CH, Ma HW, Lam Angus CC, and Chung KF. (2011) Experimental study of the strength and behaviour of reinforced coped beams. *Journal of Constructional Steel Research*, 67/11, 1749-1759.
50. Yam Michael CH, and Chung KF. (2012) A numerical study of the strength and behaviour of reinforced coped beams. *Journal of Constructional Steel Research*, <http://dx.doi.org/10.1016/j.jcsr.2012.07.032>.
51. Chung KF and Chan CK (2013). Advanced numerical modelling on composite beams with high performance materials and deformable shear connections. *Journal of Constructional Steel Research* (under review).
52. Ho CH and Chung KF (2013a). Advanced finite element modelling of partially restrained high strength cold-formed steel Z-sections under test conditions. *Engineering Structures* (under review).
53. Ho CH and Chung KF (2013b). Numerical investigation into the structural behaviour of lapped cold-formed Z-sections with bolted connections under partial restraint conditions. *Engineering Structures* (under review).

Appendix D2 List of publications: international conference papers

1. Dowling PJ, Owens GW and Chung KF. Stability of tapered frames - Stability Aspects of Industrial Buildings. Structural Stability Research Council 1985, Annual Technical Session and Meetings, pp379-394.
2. Chung KF and Owens GW. Distortional instability of very slender web beams. Developments in Structural Engineering, Proceedings of the Forth Rail Bridge Centenary Conference 1990, edited by B.H.V. Topping, published by E.&F.N. SPON, pp747-757.
3. Chung K F and Narayanan R. Lateral torsional buckling design of tee sections in the United Kingdom. Steel Structures - Recent Research and Developments, Proceedings of the International Conference on Steel and Aluminum Structures 1991, edited by S.L. Lee, published by Elsevier Applied Science, pp329-338.
4. Chung KF. Cross section distortion and mode-switching in distortional buckling of beams with very slender webs. Proceedings of the Fifth International Colloquium on Stability and Ductility of Steel Structures, 1997, Nagoya, Japan, pp539-546.
5. Chung KF. Composite construction in multi-storey buildings. Proceedings of the Annual Seminar 'Fast track construction in Hong Kong', The Hong Kong Institution of Engineers (Structural Division) and the Institution of Structural Engineers (Hong Kong Division), Hong Kong, May 1998.
6. Chung KF and Shi YJ. Lateral torsional buckling of gusset plates in bolted moment connections among cold formed steel members. The Second World Congress on Steel in Construction, Spain, 1998, edited by Owens G.W., Special issue of Journal of Constructional Steel Research, Vol. 46, Nos. 1-3, Paper number 418, 1998.
7. Chung KF and Shi YJ. Structural performance of bolted moment connections between cold-formed steel members. Proceedings of The Second International Conference on Thin-Walled Structures, Singapore, December 1998, Elsevier pp245-252.
8. Chung KF and Chan WM. Practical design of composite beams integrated with building services. Proceedings of the Fifth International Conference on Tall Buildings, December 1998, Hong Kong, pp496 – 501.
9. Chung KF. Practical design of composite columns with concrete encased I-sections to Eurocode 4. Proceedings of the Fifth International Conference on Tall Buildings, December 1998, Hong Kong, pp488-495.
10. Liu TCH and Chung KF. Practical design of universal steel beams with single web openings of different shapes. Proceedings of the Second European Conference on Steel Structures 'Eurosteel 99', May 1999, Prague pp59-62.
11. Chung KF and Ip KH. Finite element modelling of cold-formed steel bolted connections. Proceedings of the Second European Conference on Steel Structures 'Eurosteel 99', May 1999, Prague pp503-506.
12. Chung KF, Chan SL, Wong MF and Yu WK. Structural behaviour of cold-formed steel portal frames with lipped C sections. Proceedings of the Sixth International Conference on Steel and Space Structures, Singapore, September 1999, pp321-328.
13. Chung KF and Ip KH. Finite element modelling of double bolted connections between cold-formed steel strips under static shear loading. Proceedings of the Second International Conference on Advances in Steel Structures, Hong Kong, December 1999, pp245-252.
14. Ip KH and Chung KF. Failure modes of bolted cold-formed steel connections under static shear loading. Proceedings of the Second International Conference on Advances in Steel Structures, Hong Kong, December 1999, pp269-276.
15. Chung KF, Lawson RM, Shi YJ, Wong MF and Lee NF. Research and development on building construction using cold-formed steel sections. Proceedings of International Conference on Engineering and Technological Sciences 2000, Session 5: Civil Engineering in the 21st Century, Oct 2000, Beijing, China, pp233-245.

16. Wong MF and Chung KF. Experimental investigation on bolted moment connections in beam-column sub-frames. Proceedings of the Fifteenth International Specialty Conference on Cold-formed Steel Structures, Rolla, MO, USA, October 2000, pp607-618.
17. Chung KF and Ip KH. A general design rule for bearing failure of bolted connections between cold-formed steel strips. Proceedings of the Fifteenth International Specialty Conference on Cold-formed Steel Structures, Rolla, MO, USA, October 2000, pp593-606.
18. Wong MF and Chung KF. Experimental investigation on bolted moment connections in beam-column sub-frames - Comparative study. Proceedings of the First International Conference on Structural Stability and Dynamics, December 2000, Taipei, pp587-592.
19. Ko CH and Chung KF. A comparative study on existing design rules for steel beams with circular web openings. Proceedings of the First International Conference on Structural Stability and Dynamics, December 2000, Taipei, pp733-738.
20. Chung KF and Wong MF. Experimental investigation on bolted moment connections in beam-column sub-frames - Enhanced performance. Proceedings of the International Conference on Structural Engineering, Mechanics and Computation, Cape Town, South Africa, April 2001, pp1515-1522.
21. Liu TCH, Chung KF, and Ko ACH. Finite element modelling on Vierendeel mechanism in steel beams with large circular web openings. Proceedings of the International Conference on Structural Engineering, Mechanics and Computation, Cape Town, South Africa, April, 2001, pp1567-1574.
22. Lee ANF, Liu TCH and Chung KF. Finite element modelling of cold-formed steel column base connections. Proceedings of the First International Conference on Steel and Composite Structures, Pusan, Korea, June 2001, pp747-754.
23. Chung KF. Bolted connections between cold-formed steel sections. Proceedings of the First International Conference on Steel and Composite Structures, Pusan, Korea, June 2001, pp755-762.
24. Yu WK and Chung KF. Mechanical properties of bamboo for scaffolding in building construction. Proceedings of International Conference on Construction, Hong Kong, June 2001, pp262-272.
25. Chung KF, Yu WK and Chan SL. Mechanical properties and engineering data of structural bamboo. Proceedings of International Seminar 'Bamboo Scaffolds in Building Construction', Hong Kong, May 2002, pp1-23.
26. Chan SL and Chung KF. Stability design of hollow timber section – Bamboo. Proceedings of International Seminar 'Bamboo Scaffolds in Building Construction', Hong Kong, May 2002, pp55-63.
27. Chung KF, Yu WK and Chan SL. Practical design of bamboo scaffolds. Proceedings of International Seminar 'Bamboo Scaffolds in Building Construction', Hong Kong, May 2002, pp65-88.
28. Yu WK, Chung KF and Chan SL. Column buckling in structural bamboo for bamboo scaffolding. Proceedings of the 17th Australasian Conference on the Mechanics of Structures and Materials, Gold Coast, Australia, June 2002, pp555-560.
29. Chung KF, Chan SL and Wong MF. Numerical study of cold-formed steel beam-column sub-frames with semi-rigid joints, Proceedings of the 17th Australasian Conference on the Mechanics of Structures and Materials, Gold Coast, Australia, June 2002, pp569-573.
30. Chung KF and Ko CH. Harmonization on practical design of steel and composite beams with large web openings for full integration with building services. Proceedings of the Structural Engineering World congress, Yokohama, Japan, October 2002 (CD publication).
31. Chung KF, Chan SL and Yu WK. Recent developments on bamboo scaffolding in building construction. Proceedings of the International Conference on Advances in Building Technology, Hong Kong, December 2002, pp629-636.

32. Chu AYT, Chan SL and Chung KF. Stability of modular steel scaffolding systems - theory and verification. Proceedings of the International Conference on Advances in Building Technology, Hong Kong, December 2002, pp621-628.
33. Lu M, Yu WK and Chung KF. Reliability analysis for mechanical properties of structural bamboo. Proceedings of the International Conference on Advances in Building Technology, Hong Kong, December 2002, pp637-644.
34. Yu WK, Chung KF and Tong YC. Full scale tests of bamboo scaffolds for design development against instability. Proceedings of the International Conference on Advances in Building Technology, Hong Kong, December 2002, pp661-668.
35. Ho HC and Chung KF. An experimental investigation into lapped moment connections between Z sections. Proceedings of the Third International Conference on Advances in Steel Structures, Hong Kong, December 2002, pp437-444.
36. Ho HC and Chung KF. Practical design of roof systems using cold-formed steel Z-sections. Proceedings of the Third International Conference on Advances in Steel Structures, Hong Kong, December 2002, pp445-452.
37. Ko CH and Chung KF. A review of recent developments on design of perforated beams. Proceedings of the Third International Conference on Advances in Steel Structures, Hong Kong, December 2002, pp121-128.
38. Xiao RY, Chin GPW and Chung KF. Testing and numerical analysis of cold-formed C-sections subject to patch load. Proceedings of the Third International Conference on Advances in Steel Structures, Hong Kong, December 2002, pp351-356.
39. Wang AJ and Chung KF. Elastic critical moment of I-sections with very slender webs. Proceedings of the Third International Conference on Advances in Steel Structures, Hong Kong, December 2002, pp649-656.
40. Ho HC and Chung KF. Structural analysis on lapped moment connections between cold-formed steel Z sections. Proceedings of the Second International Conference on Stability and Dynamic, December 2002, Singapore, pp675-680.
41. Yu WK, Chung KF, and Chan SL. Structural stability of modular steel scaffolding systems. Proceedings of the Second International Conference on Stability and Dynamic, December 2002, Singapore, pp418-423.
42. Wang XP, Lam SSE and Chung KF. Cross section distortion due to cutting of cold-formed steel C-section stub columns. Proceedings of the Second International Conference on Stability and Dynamic, December 2002, Singapore, pp369-374.
43. Chung KF and Ho HC. Deformation characteristics of lapped connections between cold-formed steel purlins of Z sections. Proceedings of Advances in Structures – Steel, Concrete, Composite and Aluminum, 23-25 June 2003, Sydney, Australia, pp281-288.
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45. Quach WM, Teng, JG and Chung KF. Residual stresses in steel sheets due to coiling and uncoiling. Proceedings of the Second International Conference on Structural Engineering and Mechanics, Cape Town, South Africa, 5-7 July 2004, pp. 270 (CD publication).
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81. Chung KF and Wang A. Performance-based design and analysis of composite beams in building structures. Proceedings of the Second International Symposium on Advances in Steel and Composite Structures, Hong Kong, 20 July 2007, pp29-52.
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83. Chung KF and Wang A. Behaviour, analysis and design of composite beams and joints in buildings. Proceedings of the Fifth International Conference on Advances in Steel Structures, Singapore, 5 – 7 December 2007, pp99-116.
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 99. Chung, K.F. (2010), Recent developments and applications of cold-formed steel structures in building construction, Proceedings of The 2010 Influencing the World: International Summit on China Structural Steel Awards, Shanghai, China, 17 to 19 September 2010.
 100. Chung K.F. and Chan, C.K. (2010), A numerical investigation into the effect of strain hardening on the structural behaviour of simply supported composite beams, Proceedings of Ninth Pacific Structural Steel Conference, Beijing, China, 19-22 October 2010, pp988-993.
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 107. Chung, K.F., Ho, H.C. and Nip, C.H., (2012) Recent developments on design and quality control of galvanized steel members in Hong Kong, Macau, and the Pearl River Delta Region. Proceedings of the First International Conference on Performance-based and Life-cycle Structural Engineering 2012, The Hong Kong Polytechnic University, 5 to 7 December 2012, Hong Kong, CD publication.
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Appendix E Keynote & Invited Lectures

1. Structural application of cold formed steel to BS 5950: Part 5. Technical meeting. The Joint Structural Division of the Hong Kong Institution of Engineers and the Institution of Structural Engineers. Hong Kong, 26 June 1997.
2. Composite construction in multi-storey buildings. Annual Seminar on Fast Track Construction in Hong Kong. The Joint Structural Division of the Hong Kong Institution of Engineers and the Institution of Structural Engineers. Hong Kong, 5 May 1998.
3. Design and construction of composite multi-storey buildings. Technical seminar. The Hong Kong Housing Authority. Hong Kong, 5 October 1998.
4. Design of composite beams with web openings to BS5950 for integration with building services. Technical meeting. The Joint Structural Division of the Hong Kong Institution of Engineers and the Institution of Structural Engineers. Hong Kong, 14 June 1999.
5. Research and development on building construction using cold-formed steel sections. The Ninth National Conference on Structural Stability and Fatigue. The Chinese Structural Steel Society, the Structural Stability and Fatigue Association, and Tsinghua University. Nanan University, Changsha, 30 Oct - 3 Nov 2000.
6. Prefabrication with cold-formed steel. Technical symposium "Following Tang: A Call to Action: Sustainable Construction". Department of Architecture, the University of Hong Kong. Hong Kong, 27 March 2001.
7. Mechanical properties and engineering data of structural bamboo. International Seminar on Bamboo Scaffolds in Building Construction, Hong Kong, 10 May 2002.
8. Practical design of bamboo scaffolds. International Seminar on Bamboo Scaffolds in Building Construction, Hong Kong, 10 May 2002.
9. Building applications of cold-formed steel shapes. Annual Conference on Materials Science and Technology in Engineering. The Materials Division of the Hong Kong Institution of Engineers. Hong Kong, 15-17 January 2003.
10. Structural performance of profiled steel deckings in composite construction to BS5950: Parts 4, 6, and 8. Technical Seminar on Use of Profiled Steel Decking in Composite Construction. The Hong Kong Institute of Steel Construction. Hong Kong, 25 February 2003.
11. Steel and composite beams fully integrated with building services. International Seminar on Fire Engineering and Composite Construction. The Hong Kong Institute of Steel Construction. Hong Kong, 25 March 2003.
12. Experimental and theoretical investigations on modular steel scaffolds. Technical Seminar on Metal Scaffolding (Falsework) – Design, Construction and Safety. Jointly organized by the Building Division of the Hong Kong Institution of Engineers and the Hong Kong Institute of Steel Construction. Hong Kong, 25 April 2003.
13. Fire resistance of composite slabs with profiled steel decking to BS5950: Part 8. Annual Seminar on Structural Safety and Hazard Mitigations. The Joint Structural Division of the Hong Kong Institution of Engineers and the Institution of Structural Engineers. Hong Kong, 6 June 2003.
14. Advanced finite element analyses of composite slabs with profiled steel deckings in fire. Technical Seminar on Computer Methods for Economical and Safe Structural Design. The Hong Kong Institute of Steel Construction. Hong Kong, 29 August 2003.
15. Design development for purlin systems using cold-formed steel Z sections. International Symposium on Worldwide Codification Design and Technology in Steel Structures. The Hong Kong Institute of Steel Construction. Hong Kong, 9-10 February 2004.
16. Design of steel and composite beams with web openings – Verification using finite element method. International Symposium on Worldwide Codification Design and Technology in Steel Structures. The Hong Kong Institute of Steel Construction. Hong Kong, 9-10 February 2004.

17. Fire resistant design of composite structures. International Seminar on Recent Developments of Fire Protection in Structures. The Hong Kong Institute of Steel Construction. Hong Kong, 19 February 2004.
18. Cold-formed metal claddings in modern roof construction. Technical Seminar on Construction, Analysis and Design of Light Weight and Long Span Steel Structures. The Hong Kong Institute of Steel Construction, Hong Kong, 19 June 2004.
19. Structural performance of cold-formed steel structures with bolted moment connections. International Symposium on Innovation and Advances in Steel Structures. Singapore Structural Steel Society. Singapore, 30 – 31 August 2004.
20. The Hong Kong Steel Code “Structural use of steel using limiting state approach”. The Second International Conference on Steel and Composite Structures 2004, Seoul, Korea, 2-4 September 2004.
21. Investigations into cold-formed steel structures with bolted moment connections. International Symposium on Cold-formed Metal Structures. 10 December 2004, Hong Kong.
22. Advances in analysis and design of cold-formed steel structures. Annual Seminar on Advances in Structural Codification for Buildings. Joint Structural Division of the Hong Kong Institute of Engineers and the Institution of Structural Engineers, U.K., Hong Kong, 7 June 2005.
23. Recent advances in the design and construction of composite floor systems. The Second International Symposium on Worldwide Codified Design and Technology in Steel Structures. The Hong Kong Institute of Steel Construction, Hong Kong, 17-18 June 2005.
24. Bamboo scaffolds in building construction: Research and Application. The Technical Seminar on Advances in Design and Technologies in Scaffolding. The Hong Kong Institute of Steel Construction, Hong Kong 28 October 2005.
25. Recent development on composite slab construction using profiled steel decking. The International Symposium on Advances in Steel and Composite Structures, The Hong Kong Institute of Steel Construction, Hong Kong, 2 December 2005.
26. Structural aspects of severe fires in tunnels. The Second International Seminar on Recent Developments of Fire Protection in Structures, The Hong Kong Institute of Steel Construction, Hong Kong, 12 January 2006.
27. Mechanics for plate buckling in thin-walled metal structures. Technical Seminar on Advanced Facade Engineering and Technology 2006, The Hong Kong Institute of Steel Construction, Hong Kong, 21 April 2006.
28. Recent advances in the design and construction of composite beams. The Eighth International Conference on Steel, Space and Composite Structures. Nanyang Technological University, Singapore. 15-17 May 2006, Kuala Lumpur, Malaysia.
29. Fire resistant design of steel and steel-concrete composite structures. Annual Seminar on Structural Fire Engineering. Joint Structural Division of the Hong Kong Institute of Engineers and the Institution of Structural Engineers, U.K., Hong Kong, 16 June 2006.
30. Developing a performance-based design code for steel and composite structures in Asia. International Symposium on Worldwide Trends and Development in Codified Design of Steel Structures 2006. 2 – 3 October, Singapore, jointly organized by the Centre for Infrastructure Systems, Nanyang Technological University, Building and Construction Authority, the Government of Singapore, and Singapore Structural Steel Society.
31. Developing a performance-based design code for steel and composite structures in Asia. International Symposium on Worldwide Trends and Development in Codified Design of Steel Structures 2006. 5 – 6 October 2006, Kuala Lumpur, Malaysia, jointly organized by Association of Consulting Engineers Malaysia.
32. Developing a performance-based design code for steel and composite structures in Asia. ACECC Workshop on Harmonization of Design Codes in the Asia Region, organized by the Asian Civil Engineering Coordinating Council, 4 November 2006, Taipei, Taiwan.
33. Recent advances in design and construction of composite beams – Advanced performance based analysis and design. International Symposium on Innovative Design of Steel Structures, 10

November 2006, Hong Kong, organized by Department of Civil Engineering, the University of Hong Kong.

34. Globalization in Action - Developing a modern design code for steel and composite structures in Asia. Curtin University of Technology Sarawak Engineering (CUTSE) Conference 2006, 27 – 28 November 2006, Miri, Sarawak, Malaysia.
35. Design development for high strength cold-formed steel lapped Z sections with overlaps. The Second International Symposium on Cold-formed Metal Structures, Research Centre for Advanced Technology in Structural Engineering, The Hong Kong Polytechnic University, 8 December 2006, Hong Kong.
36. Structural behaviour of bamboo scaffolds and its application in Hong Kong. Technical seminar, Architectural Services Department, The Government of Hong Kong SAR, Queensway Government Offices, 30 March 2007.
37. Development of Steel Design Code for Hong Kong and Prospect of Modern Steel Design Code in Asia. The KSSC Annual Meeting of The Korean Steel Construction Society, 6-8 June 2007, Jeju Island, Korea.
38. Performance-based design and analysis of composite beams in building structures. The Second International Symposium on Advances in Steel and Composite Structures, The Hong Kong Polytechnic University, 20 July 2007, Hong Kong.
39. Behaviour, analysis and design of composite beams and joints in buildings. The Fifth International Conference on Advances in Steel Structures, The National University of Singapore, 5-7 December 2007, Singapore.
40. Design and construction of cold-formed metal roof systems: Purlins and Roof claddings. Curtin University of Technology Sarawak, Miri & Institute of Engineering Malaysia (Miri & Kota Kinabalu), 28 & 30 April 2008, Sarawak, Malaysia.
41. Structural behaviour of composite slabs with profiled steel deckings under fires. International Conference on Thin-Walled Structures 2008, Gold Coast, Australia, 18 – 20 June 2008.
42. Structural behaviour of composite slabs with profiled steel deckings under fires. Second International Symposium on Advances in Steel and Composite Structures, Nanyang Technological University, Singapore, 1 August 2008.
43. Structural aspects of severe fires in tunnels. Protective Technology Research Centre, Nanyang Technological University, Singapore, 6 August 2008.
44. Effective use of profiled steel deckings in construction and composite stages. Technical Symposium on Profiled Steel Deckings in Steel and Composite Structures. Macau Society of Metal Structures, Macau, 17 October 2008.
45. Fire resisting construction in composite structures – An example of composite slabs. Technical Symposium on Profiled Steel Deckings in Steel and Composite Structures. Macau Society of Metal Structures, Macau, 17 October 2008.
46. Fire resisting construction in composite structures – An example of composite slabs. Technical Symposium on Profiled Steel Deckings in Steel and Composite Structures. Macau Society of Metal Structures, Macau, 17 October 2008.
47. Advanced numerical analysis of composite beams with deformable shear connectors. International Symposium on Global Developments of Steel Structures. Jointly organized by University of Macau, Macau Society of Metal Structures and Civil Engineering Laboratory of Macau, Macau, 6 December 2008.
48. A numerical investigation into continuous composite beams with deformable and non-ductile shear connectors. The 9th International Conference on Steel Concrete Composite and Hybrid Structures, UK, 8 – 10 July 2009.
49. General review on design against corrosion protection to steel members in Hong Kong. Proceedings of the International Symposium on Advances in Corrosion Protection to Steel Members in Building Construction. The Hong Kong Polytechnic University. 2 November 2009.

50. Structural fire engineering and fire protection in built environments. Nanotechnology & Advanced Materials Forum - Applications and Technologies of Fire Resistant Building Materials. Organized by the Nano & Advanced Materials Institute. The Hong Kong Convention and Exhibition Centre, 16 July 2010.
51. Towards effective design and construction of metal roofing structures. The Third International Symposium on Cold-formed Metal Structures. Organized by the Cold-formed Metal Institute. Hong Kong, 26 July 2010.
52. Towards effective design and construction of metal roofing structures. The International Symposium on Advances in Metal Building Envelopes. Jointly organized by the Macau Society of Metal Structures and the Cold-formed Metal Institute. Macau, 28 July 2010.
53. Recent developments and applications of cold-formed steel structures in building construction. The 2010 Influencing the World: International Summit on China Structural Steel Awards. Jointly organized by the China Constructional Metal Structures Association and the Shanghai Metal Structures Association. Shanghai, China. 17 to 19 September 2010.
54. A numerical investigation into the effect of strain hardening on the structural behaviour of simply supported composite beams. The Ninth Pacific Structural Steel Conference, Beijing, China. Organized by the China Steel Construction Society, 19 to 22 October 2010.
55. Advanced finite element modelling of an unprotected long span steel space trusses at elevated temperatures. International Workshop on Fire Safety Engineering and Management 2011. Organized by Sultan Qaboos University, Muscat, Sultanate of Oman, 7 to 9 March 2011.
56. Advanced numerical modeling on composite beams with high strength steels and deformable but non-ductile shear connectors. International Seminar on Hybrid and Composite Structures, Yonsei University, Seoul, Korea, February 24, 2012.
57. Recent developments on design and quality control of galvanized steel members in Hong Kong, Macau, and the Pearl River Delta Region. The International Zinc Week – General Galvanizing Technology Conference. Organized by the International Zinc Association, 29 August to 1 September 2012.
58. High performance steel in building construction: Numerical analysis and design of composite beams. An Evening Lecture. Organized by the Singapore Structural Steel Society, 6 September 2012.

Invited articles

1. Developing a modern structural design code for steel and composite structures in Asia – The Hong Kong experience. INSDAG Year Book, Institute for Steel Development & Growth, India, 2008: 3-16.

Appendix F Chairmanship, Organizing Committees of International Conferences, Symposia, and Seminars

1. Chung KF and Chan SL. Proceedings of International Seminar on Bamboo Scaffolds in Building Construction. INBAR Proceedings No. 8, the International Network for Bamboo and Rattan, 2002, pp1- 110.
2. Chan SL, Jeng JG and Chung KF. Proceedings of the Third International Conference on Advances in Steel Structures, ICASS '02 , Vol. I & II, pp1-1215.
3. Chung KF. Proceedings of Technical Seminar on Use of Profiled Steel Decking in Composite Construction, 25 February 2003, The Hong Kong Institute of Steel Construction, Hong Kong, pp1-48.
4. Chung KF. Proceedings of International Seminar on Fire Engineering and Composite Construction, 25 March 2003, Jointly organized by The Hong Kong Institute of Steel Construction and the Singapore Structural Steel Society, Hong Kong, pp1-155.
5. Chan SL, Chung KF, Li QG and Tsai CK. Proceedings of the Third National Conference on Steel and Metal Structures. The Hong Kong Polytechnic University. Hong Kong, 6 to 7 November 2003, pp1-305.
6. Chan SL, Chung KF, Kwan KK and Vesey DG. Proceedings of International Symposium on Worldwide Codified Design and Technology in Steel Structures, The Hong Kong Institute of Steel Construction, Hong Kong, 9 to 10 February 2004, pp1-233.
7. Chung KF and Yuen SW. Proceedings of International Seminar on Recent Developments of Fire Protection in Structures, The Hong Kong Institute of Steel Construction, Hong Kong, 19 February 2004, pp1-107.
8. Chung KF. Proceedings of the International Symposium on Cold-formed Metal Structures. The Hong Kong Polytechnic University. 10 December 2004, pp1-126.
9. Chung KF. Proceedings of the International Symposium on Advances in Steel and Composite Structures, The Hong Kong Institute of Steel Construction, Hong Kong, 2 December 2005, pp1-159.
10. Wong YL and Chung KF. Proceedings of the Second International Seminar on Recent Developments of Fire Protection in Structures, The Hong Kong Institute of Steel Construction, Hong Kong, 12 January 2006, pp1-119.
11. Chung KF. Proceedings of the Second International Symposium on Cold-formed Metal Structures. The Hong Kong Polytechnic University. 8 December 2006, pp1-148.
12. Chung KF. Proceedings of the Second International Symposium on Advances in Steel and Composite Structures. The Hong Kong Polytechnic University. 20 July 2007, pp1-145.
13. Chung KF. Proceedings of the IStructE Centenary Conference, The Institution of Structural Engineers, Hong Kong, 24-26 January 2008, pp1-451.
14. Chung KF. Proceedings of the Technical Symposium on Effective Use of Cold-formed Steel Sections in Building Construction. The Institute of Cold-formed Metal Structures and the Hong Kong Polytechnic University, 3 June 2009, Hong Kong, pp1-193.
15. Chung KF. Proceedings of the Third International Symposium on Advances in Steel and Composite Structures. The Hong Kong Polytechnic University. 3 August 2009, pp1-159.
16. Chung KF. Proceedings of the Professional Workshop on Effective Use of Profiled Steel Deckings in Building Construction. The Institute of Cold-formed Metal Structures and the Hong Kong Polytechnic University, 6 October 2009, Hong Kong, pp1-142.
17. Chung KF. Proceedings of the International Symposium on Advances in Corrosion Protection to Steel Members in Building Construction. The Hong Kong Polytechnic University. 2 November 2009, pp1-169.
18. Chung KF. Proceedings of the Third International Symposium on Cold-formed Metal Structures. The Hong Kong Polytechnic University. 26 July 2010, pp1-157.

Appendix G Editorship in Special Issues of International Journals

1. Chung KF. Special Issue on the Third International Conference on Advances in Steel Structures in International Journal of Applied Mechanics and Engineering (2004) 9:1, pp1-187.
2. Chung KF. Special Issue on the International Symposium on Worldwide Codified Design and Technology in Steel Structures. The Hong Kong Institute of Steel Construction. Hong Kong, 9 to 10 February 2004. Steel and Composite Structures 5 (2-3), 2005: pp 86-258.
3. Liew RJY and Chung KF. Special Issue on the International Symposium on Innovation and Advances in Steel Structures. Singapore Structural Steel Society, Singapore, 30 to 31 August 2004. International Journal on Advances in Structural Engineering 8 (3), 2005: pp182-324.
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5. Chung KF. Special Issue on Advances in Cold-formed Steel Structures, International Journal on Advances in Structural Engineering, 11 (6) December 2008: pp585-691.
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Membership of Editorial Board of International Journals

1. International Journal of Advances in Structural Engineering, Editor
2. International Journal of Advanced Steel Construction
3. Journal of Constructional Steel Research
4. Progress of Steel Structures (in Chinese)
5. International Journal of Steel Structures

Reviewer for International Journals

1. Advances in Structural Engineering
2. Constructional Steel Research
3. Engineering Structures
4. Steel and Composite Structures
5. Steel Structures
6. Fire Safety
7. Materials and Structures
8. Transactions of the Hong Kong Institution of Engineers

Appendix H Professional training courses in Hong Kong, Macau, Singapore and Malaysia**Co-speaker** with Professor Kitipornchai of the University of Queensland, Australia

Organizer The Hong Kong Polytechnic University
 Title *Design of steel and composite structures to BS 5950*
 Date 15 –17 July 1998

Organizer Singapore Structural Steel Society
 Title *Cold-formed building steelwork design to BS5950: Parts 4, 5 & 6*
 Date 30 to 31 August 1999

Co-speaker with Professor Mark Bradford of the University of New South Wales, Australia

Organizer The Hong Kong Polytechnic University
 Title *Design of steel-concrete composite structures to BS5950 & BS5400*
 Date 30 Jan to 1 Feb 2001

Co-speaker with Professor Kitipornchai

Organizer Department of Building and Construction, the City University of Hong Kong
 Title *Design of steel and composite structures*
 Date 24 to 26 May 2001

Co-speaker with Professor David Nethercot of the Imperial College of Science, Technology and Medicine, U.K.

Organizer The Hong Kong Polytechnic University
 Title *Design of steel structures to BS5950*
 Date 17 to 19 Jan 2002

Co-speaker with Professor Shanmugan of the National University of Singapore

Organizer TT Information Dissemination (Hong Kong) Ltd.
 Title *Building Steelwork Design to BS5950: Part 5: 1998*
 Date 6 to 7 Sept 2002

Organizer The Hong Kong Polytechnic University & The Buildings Department
 Title *Introduction to the Hong Kong Steel Code “Code of Practice on the Structural Use of Steel”*
 Date 23 to 25 November 2005

Organizer The Hong Kong Polytechnic University
 Title *Design and Construction of Metal Scaffolds*
 Date 22 February 2006

Organizer The Hong Kong Polytechnic University
 Title *Design and Construction of Bamboo Scaffolds*
 Date 1 March 2006

Organizer The Malaysian Structural Steel Society, Kuala Lumpur, Malaysia
 Title *Industrialized Building Systems Using Steel Concrete Composite Construction – Design to BS5950 and Eurocode 4*
 Date 8-9 August 2006

- Organizer The Institution of Engineers, Singapore, IESA
Title *Industrialized Building Systems Using Steel Concrete Composite Construction – Design to BS5950 and Eurocode 4*
Date 11 to 12 August 2006
- Organizer The Hong Kong Polytechnic University
Title *One Day Training Course on Scaffolding Systems*
Date 17 January 2007
- Organizer The Hong Kong Polytechnic University
Title *One Day Training Course on Scaffolding Systems*
Date 27 February 2007
- Organizer The Building and Construction Authority, Singapore
Title *Design and Construction of Steel-Concrete Composite Buildings*
Date 8 to 9 August 2007
- Organizer The Hong Kong Housing Authority
Title *Composite Structures to the Hong Kong Steel Code 2005*
Date 17 and 27 March 2008
- Organizer The Hong Kong Housing Authority
Title *Design and Construction of Bamboo Scaffolds*
Date 24 to 25 June 2008
- Organizer The Building and Construction Authority, Singapore
Title *Practical Design and Construction of Steel-Concrete Composite Buildings*
Date 4 to 5 August 2008
- Organizer Institute of Cold-formed Metal Structures and the Hong Kong Polytechnic University
Title *Effective Use of Profiled Steel Deckings in Building Construction*
Date 3 October 2008
- Organizer Institute of Cold-formed Metal Structures and the Hong Kong Polytechnic University
Title *Effective Use of Profiled Steel Deckings in Building Construction*
Date 3 June 2009
- Organizer Institute of Engineers Malaysia
Title *Effective Use of Cold-formed Steel Sections in Building Construction*
Date 19 May 2009 in Kuala Lumpur, Malaysia
21 May 2009 in Kuching, Malaysia
- Organizer Institute of Cold-formed Metal Structures and the Hong Kong Polytechnic University
Title *Effective Use of Profiled Steel Deckings in Building Construction*
Date 6 October 2009

- Organizer The Hong Kong Polytechnic University
Title *Structural Fire Engineering and Fire Protection in Built Environments*
Date 14 July 2010
- Organizer The Hong Kong Constructional Metal Structures Association and Architectural Services Department
Title *Structural Fire Engineering*
5 to 6 January 2012
- Organizer The Hong Kong Polytechnic University and Hong Kong Constructional Metal Structures Association
Title *Professional Seminar on Design of Steel Structures to Eurocode 3*
23 March 2012
- Organizer Hong Kong Constructional Metal Structures Association and the Hong Kong Polytechnic University
Title *Technical Seminar on Effective Design of Steel and Steel-Concrete Composite Structures to EC4*
16 to 17 August 2012
- Organizer The Building and Construction Authority, Singapore
Title *Structural Fire Engineering to Eurocodes 3 & 4: Part 1.2*
6 to 7 September 2012
- Organizer Hong Kong Constructional Metal Structures Association and the Hong Kong Polytechnic University
Title *Technical Seminar on Effective Design of Steel Structures to EC3*
2 and 9 November 2012
- Organizer Hong Kong Constructional Metal Structures Association and the Hong Kong Polytechnic University
Title *Technical Seminar on Effective Design of Steel and Steel-Concrete Composite Structures to EC4*
7 and 14 December 2012