



**Professor Emeritus Gregory J. Hancock** CIMS2008 logo (Coupled Instabilities in Metal Structures)

See:

[http://sydney.edu.au/engineering/civil/cims2008/hancock\\_symposium.shtml](http://sydney.edu.au/engineering/civil/cims2008/hancock_symposium.shtml)

<http://www.barnesandnoble.com/c/gregory-j-hancock>

<http://www.amazon.com/Gregory-J.-Hancock/e/B001JXF4VC>

<http://www.worldcat.org/identities/lccn-n94-113183>

<http://65.54.113.26/Author/12768456/gregory-j-hancock>

AM, FTSE, FIEAust, CP Eng, Hon FSSS, GAICD

BSc, BE, PhD, DEng

Emeritus Professor

Centre for Advanced Structural Engineering

School of Civil Engineering

Dean of the Faculty of Engineering and Information Technologies

University of Sydney, Australia

The CIMS2008 (Coupled Instabilities in Metal Structures) logo has been generated from the computer program **Thin-Wall**. It represents the set of "signature curves" that illustrates the various buckling modes of cross-sectional shapes.

Greg was instrumental in developing and applying the finite strip analysis method to analyse thin walled structures. This had led to the understanding of the distortional buckling mode of structures.

This work has been applied in practice and is incorporated into design standards around the world. Greg's application of design for distortional buckling has led to new and innovative shapes of sections in the construction industry which are significantly more efficient.

The year of the CIMS2008 conference coincides with Professor Greg Hancock reaching 60. The third day of the conference, Wed 25 June 2008, will be set aside as the Gregory J Hancock Symposium, dedicated to him and his many achievements. These include the developments of semi-analytical finite strip and spline finite strip methods and the use of "design by buckling analysis" which laid the foundation for the Direct Strength Method now rapidly being accepted in North America and Australia.

While the Symposium will be part of the CIMS2008 Conference, speakers will be invited amongst Greg's collaborators, friends, colleagues and past PhD students.

The overall theme of the Symposium will be cold-formed steel structures under the general headings of advances in theoretical backgrounds, numerical methods and design developments. The Symposium aims to promote innovation in research and design of cold-formed steel structures.

### **Biography:**

Professor Gregory J Hancock is Dean of the Faculty of Engineering and Information Technologies, The University of Sydney, a position he has held since May 2004. He has also been Bluescope Steel (formerly BHP Steel) Professor of Steel Structures in the Department of Civil Engineering, since 1990. He was Director then Chairman of the Centre for Advanced Structural Engineering in the University of Sydney from 1988 to 2003.

His research interests are in the area of cold-formed steel structures and he was awarded the degree of Doctor of Engineering in 2003 by the University for a collection of 69 papers on this subject. He is a board member of the Australian Steel Institute, a member of the American Iron and Steel Institute Specification Committee (only non-North American member), and chairs the Standards Australia committee on cold-formed steel structures and is a member of 5 other Standards Australia committees in structural engineering. He is a Fellow of the Institution of Engineers Australia, and the Singapore Structural Steel Society. He was recently elected as a Fellow of the Australian Academy of Technological Science and Engineering. He is a consultant to all the leading Australian manufacturers of steel structural products.

He is a member of the Editorial Board of the Journal of Constructional Steel Research published in London, as well the Journal of Advances in Structural Engineering (Hong Kong) and the International Journal of Steel Structures (Korea).

He is the author of “Design of Cold-Formed Steel Structures to AS/NZS 4600” published by the Australia Institute of Steel Construction in 1998, and joint author of “Cold-Formed Steel Structures to the AISI Specification” (Hancock, Murray and Ellifritt) published by Marcel Dekker, New York in 2001.

**Membership of Learned Societies:**

Fellow of Institution of Engineers, Australia  
Member of the Structural Stability Research Council, USA  
Member, Australian Steel Institute  
Honorary Fellow, Singapore Structural Steel Society  
Fellow of the Australian Academy of Technological Science and Engineering

**International Standards Committees:**

2003 - 2004 Member, International Advisory Committee Hong Kong, Code of Practice for the Structural Use of Steel (Limit State Approach)  
Jul 1994-present Member of Subcommittees 24 (Flexural Members), 30 (Education) of American Iron and Steel Institute Specification Committee  
Feb 1994-present Member of Subcommittees 3 (Connections), 10 (Elements), 22 (Compression Members) and 24 (Flexural Members) of American Iron and Steel Institute Specification Committee  
July 1993-present Member of Specification Committee of American Iron and Steel Institute

**Australian Standards Committees:**

1998-present Member, Standards Australia/Standards New Zealand, Structures Joint Standards Coordination Group  
Sep 1997-present Member, Subcommittee BD/23, Steel Structures, Standards Association of Australia  
Dec 1995-present Chairman, Committee BD/82, Cold-Formed Steel Structures, Standards Australia/Standards New Zealand  
Dec 1993-present Member of Committee BD/82, Cold-Formed Steel Structures, Standards Australia/Standards New Zealand  
Jan 1990-Dec 1992 Member of Committee BD/67, Steel Framed Housing, Standards Association of Australia  
Nov 1988 Dec 1992 Member of Committee BD/62, Steel Storage Racks, Standards Association of Australia  
Sep 1984-Dec 1988 Member of Committee BD/1/4, Cold Formed Steel Structures Code Committee, Standards Association of Australia  
Sep 1983 present Member of Committee BD/1, Steel Structures Code Committee, Standards Association of Australia

**Key Career Publications:**

Cold-Formed Tubular Members and Connections, Structural Behaviour and Design,(XL Zhao, T.Wilkinson, GJ Hancock) Elsevier, London, 2005  
Cold-Formed Steel Structures to the AISI Specification, New York, Marcel Dekker, Inc, 2001, (398 pp) (GJ Hancock, TM Murray and DS Ellifritt)  
Design of Cold Formed Steel Structures, 4th Edition, Australian Steel Institute, Sydney, 2007.  
"Local, Distortional and Lateral Buckling of I Beams", Journal of the Structural Division, American Society of Civil Engineers, Vol. 104, No. ST11, Nov 1978, pp 1787 1798 (GJ Hancock).  
"Distortional Buckling Formulae for Thin Walled Channel Columns", Journal of Structural Engineering, American Society of Civil Engineers, Vol 113, No 5, May 1987 (SCW Lau and GJ Hancock).

"Compression Tests of Cold-Reduced High Strength Steel Channel Columns", Journal of Structural Engineering, Vol 130, No12, 2004,pp 1954 – 1963 (D Yang and GJ Hancock)

"Stability and Ductility of Thin High Strength G550 Steel Members and Connections", Thin-Walled structures, Vol 41. No 2-3, 2003, pp 149-166 (CA Rogers, D Yang and GJ Hancock)

"Cold-Formed Steel Structures", Journal of Constructional Steel Research, Vol 59, No 4, 2003, pp 473-487 (G Hancock)

"Recent Research on Cold-Formed Tubular Structures", Journal of Constructional Steel Research, Vol 46, No 1-3, 1998, paper No 229, pp 474-475 (XL Zhao and GJ Hancock)

"Experimental Study of Complex High Strength Cold-Formed Cross-Shaped Steel Section", Journal of Structural Engineering, Vol 134, No8, 2004,pp 1322-1333 (DCY Yap and GJ Hancock)

"Direct Strength Design of Cold-Formed Purlins", Journal of Structural Engineering, Vol 135, No3, 2004,pp 229-238 (CH Pham and GJ Hancock)