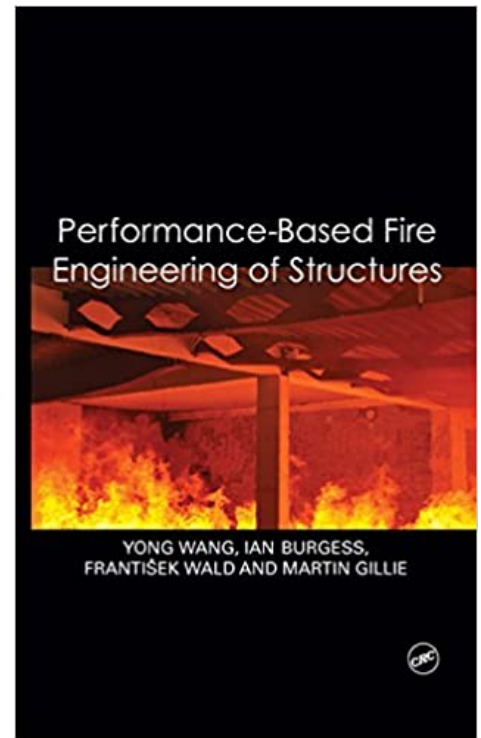
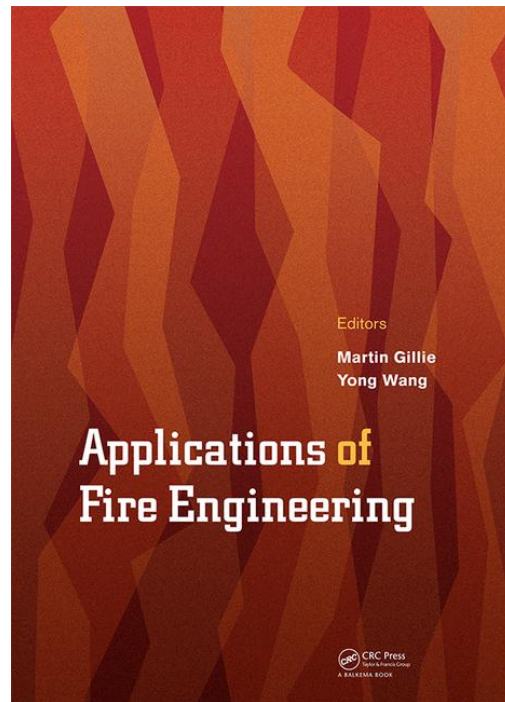




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<https://www.electronicpoint.com/interviews/modernising-uk-engineering-education-a-qa-with-nmte-universitys-chief-academic-officer/>

<https://scholar.google.com/citations?user=INjRYsgAAAAJ&hl=en>

[https://www.researchgate.net/profile/Martin\\_Gillie](https://www.researchgate.net/profile/Martin_Gillie)

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### **Education:**

Ph.D. 1997-2001 The University of Edinburgh

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### **Selected Publications:**

#### **Books:**

M. Gillie and Y.C. Wang (Eds). Applications of Fire Engineering: Proceedings of the International Conference of Applications of Structural Fire Engineering. CRC Press 2017. ISBN-978-1-138-09291-4.

Y.C. Wang, I.A. Burgess, F. Wald, and M. Gillie. Performance-Based Fire Engineering of Structures. Spon Press 2012. ISBN-10: 041555733X.

#### **Journal Articles, etc.:**

R. Suwondo, L. Cunningham, M. Gillie, and C. Bailey. Improving the performance of composite floors subjected to post-earthquake fire. *Fire Safety J.* 2018.

R.S. Al-Hamd, M. Gillie, H. Warren, G. Torelli, T. Stratford, and Y. Wang. The effect of load induced thermal strain on flat slab behaviour at elevated temperatures. *Fire Safety J.* 97:12–18 2018.

R. Suwondo, M. Gillie, L. Cunningham, and C. Bailey. Effect of earthquake damage on the behaviour of a composite steel frame in fire. *Advances in Structural Eng.* 2018.

M. Altaee, L.S. Cunningham, and M. Gillie. Experimental investigation of CRFP-strengthened steel beams with web openings. *J. of Constr. Steel Res.* 138:750–760 2017.

K. Abdulla, L.S. Cunningham, and M. Gillie. Non-linear FE modelling of plain and CFRP strengthened masonry panels under out-of-plane loads. *Masonry International* 30(3) 2017.

K. Abdulla, L.S. Cunningham, and M. Gillie. Simulating masonry wall behaviour using a simplified micro-model approach. *Engineering Structures* 151:349–365 2017.

Mohammed Altaee, Lee Cunningham and Martin Gillie, “Novel technique for strengthening steel beams with web penetrations”, Paper from a conference that is not identified, March 2016

D. Rush, L. Bisby, M. Gillie, A. Jowsey, and B. Lane. Furnace tests on unprotected and protected concrete filled structural hollow sections. *Fire Safety J.* 78:71–84 2015.

P. Kamath, U.K. Sharma, V. Kumar, P. Bhargava, A. Usmani, B. Singh, Y. Singh, J. Torero, M. Gillie, and P. Pankaj. Full-scale fire test on an earthquake-damaged reinforced concrete frame. *Fire Safety J.* 73:1–19 2015.

U.K. Sharma, V. Kuma, P. Kamath, B. Singh, P. Bhargava, Y. Singh, A.S. Usmani, J.T. Torero, M. Gillie, and P. Pankaj. Testing of full-scale RC frame under simulated fire following earthquake. *J. of Structural Fire Engineering* 3(5):215–228 2014.

D. Rush, L. Bisby, M. Gillie, A. Jowsey, and B. Lane. Design of intumescent fire protection for concrete filled structural hollow sections. *Fire Safety J.* (67):13–23 2014.

A. Law, J. Stern-Gottfried, M. Gillie, and G. Rein. The influence of travelling fires on a concrete frame. *Engineering Structures* 33:1635–1642 2011.

M. Gillie. Measures of circularity for shell structures. *ASCE J. of Structural Engineering* (137):1141–1243 2011.

A. Law and M. Gillie. Interaction diagrams for ambient and heated concrete sections. *Engineering Structures* (32):1641–1649 2010.

M. Gillie. Analysis of heated structures: Nature and modelling benchmarks. *Fire Safety J.* 44(5):673–680 2009.

T.J. Stratford, J.F. Chen, M. Gillie, and A.S. Usmani. Bonded fibre reinforced polymer strengthening in a real fire. *Advances in Structural Eng.* 12(6):867–878 2009.

M. Gillie, S. Lamont, and A.S. Usmani. Composite steel-framed structures in fire with protected and unprotected edge beams. *J. of Constr. Steel Res.* 63(8):1138–1150 2007.

S. Lamont, A.S. Usmani, and M. Gillie. Behaviour of a small composite steel-frame structure in a “long-cool” and a “short-hot” fire. *Fire Safety J.* 39(5):327–357 2004.

M. Gillie, A.S. Usmani, and J.M. Rotter. Bending and membrane action in concrete slabs. *Fire and Materials* 28(2-4):139–158 2004.

M. Gillie and J.M.F.G. Holst. Structural behaviour of silos supported on discrete, eccentric brackets. *J. of Constr Steel Res.* 59(7):887–910 2003.

M. Gillie and J.M. Rotter. The effects of patch loads on thin-walled steel silos. *Thin-Walled Structures* 40(10):835–852 2002.

M. Gillie, J.M.F.G. Holst, M. Muench, and J.M. Rotter. Behaviour of silos supported on discrete brackets. *Int. J. of Structural Stability and Dynamics* 2(1):45–62 2002.

M. Gillie, A.S. Usmani, and J.M. Rotter. A structural analysis of the Cardington British Steel corner test. *J. of Constr. Steel Res.* 58(4):427–442 2002.

A.S. Usmani, J.M. Rotter, S. Lamont, A.M. Sanad, and M. Gillie. Fundamental principles of structural behaviour under thermal effects. *J. of Constr. Steel Res.* 36(8):721–744 2001.

M. Gillie, A.S. Usmani, and J.M. Rotter. A structural analysis of the first Cardington test. *J. of Constr. Steel Res.* 57(6):581–601 2001.

M. Gillie, A.S. Usmani, and J.M. Rotter. Modelling of heated composite floor slabs with reference to the Cardington experiments. *Fire Safety J.* 6(8):745–767 2001.

Martin Gillie, “The behaviour of steel-framed composite structures in fire conditions”, Ph.D. dissertation, University of Edinburgh, September 2000