

Unravelling the systemic causes of fire and structural defects through systemic analysis



Forensic Analysis of Complex Problems related to **Construction and Property Development Interfaces**

Dr Jonathan Drane is a recognised expert in property development, design and construction processes in the Australasian industry. Jonathan is available as an expert witness and for advisory forensic analysis of complex

construction and development problems.

Jonathan currently advises legal, industry, academic and government on the systemic breakdown in design a construction processes resulting in defects in the multi-apartment dwelling sector. See his current research initiative The Defects Dilemma and Linked In advocacy group called The Property Development Doctor.

Projects: Jonathan has worked on projects as a commercial developer and builder and in an advisory, research and client representation capacity.

Case Examples - Expert Witness

A high impact activity on one site is claimed to cause damage and cracks in an adjacent property. Jonathan reconstructed timelines and events to show that the impact had occurred but was far limited to the claimed amount.

A building construction project is claimed to have caused damage to an adjacent property. A time lapse analysis of photographic evidence proves otherwise.

For further details

Contact Jonathan: jon@jondrane.net www.jondrane.net See our master class web site: https://mclass.jondrane.net/ Linked in Group: The Property Development Doctor https://www.linkedin.com/groups/13668873/



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Dr Drane is a researcher and advisor in complex property and construction matters.

University Collaborations & Teaching Positions:

-UNSW Built Environment -City Futures Research Centre UNSW BE -Sydney University -Western Sydney University -MGSM -ICMS

Defects: Tower Tragedies

Bankstown Fire 2012: The Bankstown incident involved a fire in a multi-apartment tower which saw two young women jump from the fifth floor to escape the intense fire and flames. Tragically one of the women did not survive the fall. Fire brigade commentary noted that a fire door burned down in a matter of minutes instead of having a one to two hour rating.

Docklands Lacrosse Fire 2014: This 20 storey apartment tower saw 500 residents evacuand engulfed seven floors. Later studies showed the façade materials to have contribut-

Grenfell Tower UK 2017

The greatest tragedy in the era of tragedies, the Grenfell apartment tower was engulfed with rapidly ascending fire to see many people not

Torch Tower Dubai 2017

This high rise tower set fire and saw damage to thought it was a false alarm.

Opal Tower Sydney 2018

Precast elements in the Opoal Tower showed explosive failure leading to the evacuation of the occupants for weeks.