



Australian Government
Australian Research Council

2010 Australian
Laureate Fellows

Professor Mark Bradford

An Innovative and Advanced Systems Approach for Full Life-Cycle, Low-Emissions Composite and Hybrid Building Infrastructure

Current Organisation: The University of New South Wales
Administering Organisation: The University of New South Wales
Primary research field: Structural Engineering
National Research Priority: An Environmentally Sustainable Australia

Professor Mark Bradford is a previous Australian Research Council Federation Fellow and is currently the Director for the Centre for Infrastructure Engineering and Safety at The University of New South Wales. His research interests include researching structures subjected to extreme actions; numerical methods; structural retrofit; design codes and dynamics and elasto-dynamic buckling.

The aim of Professor Bradford's project will be to develop a "green" sustainable composite steel-concrete building frame system that reduces greenhouse gas emissions throughout the life-cycle of building construction, usage and deconstruction. The project will provide a solution to a major contemporary engineering challenge facing Australia.

Professor Bradford obtained his PhD from The University of Sydney in Structural Engineering and holds a DSc from UNSW in Engineering Mechanics. Over the course of his career, Professor Bradford has developed an international reputation as one of the leaders in structural engineering, having led strong groups of early-career researchers for many years. He is currently an active member on four Standards Australia Committees which are developing national codes in structural engineering.

Professor Bradford is an elected Fellow of the Australian Academy of Technological Sciences and Engineering. In addition to this, Professor Bradford has received Fellowships from the British Council, the Royal Society and the Australian Academy of Science. Professor Bradford has also received the Faculty of Engineering Research Excellence award. He serves on the editorial board of a number of journals including the *International Journal for Numerical Methods in Engineering*, *Advances in Structural Engineering*, *Australian Journal of Structural Engineering*, and *International Journal of Structural Stability and Dynamics*.

Media contacts

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