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June 2019 Seminar

SEISMIC VULNERABILITY OF CONCRETE BUILDINGS WITH PRECAST FLOORS

Date:	Tuesday - June 25, 2019
Venue:	Room C400, UBC Robson Square @ 800 Robson Street, Vancouver
Time:	Refreshments at 6:00pm, followed by presentation at 6:30pm
Presenter:	Dr. Ken Elwood, PhD, University of Auckland, New Zealand
Cost:	Free for SEABC Members and \$85 for non-members
	Registration is required: www.seabc.ca/Kaikoura

The 2016 Kaikoura Earthquake caused the collapse of precast concrete floor units in a modern building in Wellington, New Zealand. Following the earthquake, a working group was established to develop a guideline for the seismic assessment of precast floors. This presentation will summarise the key seismic vulnerabilities of hollowcore and double tee precast floor systems, methods to assess the drift capacity of such systems, and ongoing research on retrofit approaches.



Prof. Ken Elwood serves as the MBIE Chair in Earthquake Engineering and Research Director of QuakeCoRE: NZ Centre for Earthquake Resilience. Ken joined the University of Auckland in July 2014 after 11 years on faculty at the University of British Columbia, Canada. Ken was drawn to New Zealand to pursue the numerous opportunities for research and implementation in earthquake risk reduction. He is actively involved in research related to the seismic response of existing concrete and masonry buildings. Ken received his PhD in Civil Engineering from the University of California, Berkeley in 2002, M.S. from the University of Illinois at Urbana-Champaign in 1995, and BSc from the University of British Columbia in 1993.

Ken is a member of several national and international code committees including the seismic provisions of the American Concrete Institute Building Code (ACI 318). He is also a member of the Board of Directors of the International Association for Earthquake Engineering (IAEE).

