

**The 2016 Kaikoura earthquake: Geologic, geotechnical and
built environment impacts**

Wednesday 4th of October 2017 at 17:30
Room 207, Skempton Building,
Imperial College London, SW7 2AZ

Dr Liam Wotherspoon
University of Auckland

Abstract

The 2016 Mw7.8 Kaikōura earthquake struck the north-eastern region of the South Island of New Zealand on November 13th 11:02 (UTM). The damaging earthquake generated extreme surface displacements, significant ground motions, as well as a regional tsunami. The earthquake triggered a significant number of landslides throughout the north eastern region of the South Island, with liquefaction evident in this region as well as along the waterfront of Wellington, the capital city. This presentation will first provide an overview of the seismological characteristics and the observed strong ground motions. The impact of ground motion intensity and co-seismic hazards on the built environment will then be presented, with a particular focus on infrastructure networks across the South Island and the wider built environment in Wellington.

Dr Liam Wotherspoon

Liam Wotherspoon is a Senior Lecturer in the Department of Civil and Environmental Engineering at the University of Auckland. He sits on the leadership teams of QuakeCoRE and the Resilience to Nature's Challenges National Science Challenge, two large New Zealand research programmes. He leads research across both these research programmes focussing on the resilience of distributed infrastructure networks to natural hazards.

The lecture is open, free of charge, to both external guests and College members.