

Built Environment: Horizontal Infrastructure

Monthly Meeting

9/03/2020

Summary

- Introductions
- Presentation 1: "Factors influencing the performance of combined dam-stopbank systems: A review of the 2017 Edgecumbe Floods." Thomas Wallace
- Presentation 2: "Computational Fluid Dynamics Framework for Fluid/Wave-Structure Interaction" Pablo Higuera
- Other updates

Other Items

- Lifelines 2021
 - Feb 2021, LA
 - Special NZ Sessions
 - Canterbury EQ sequence long term recovery
 - Infrastructure rebuild and resilience investment following the 2016 Kaikōura Earthquake
 - Infrastructure network impacts from a future Alpine Fault earthquake
 - NZ Infrastructure Resilience Governance

Reporting

- Reporting due 18th March – email coming soon
- Key deliverable:
 - Horizontal infrastructure data for all case study locations collated in collaboration with end user partners – 30 June 2020
- Built Environment Theme ToR & MoU

Papers & Highlights

- Send through recently published papers
- RNC and through other funding
- Highlight at end of monthly meetings

Other Items

- Slack Channel
 - To join:
 - <http://bit.ly/rnc-infrastructure>

Other Items

- RNC Multi hazard Risk theme
 - Case study area of Rangitaiki-Tarawera river system
 - Multi-hazard impacts
- <http://www.marketeconomics.co.nz/resilience-challenge/publications/multi-hazard-risk-model-flooding-case-study>

PhD Funding

- "Residual Life of Pipes, Research Framework and Wastewater Pipe Asset Data Parsimony"
 - Department of Civil and Environmental Engineering at the University of Auckland.
 - The models used by the 3 waters industry to assess useful life, risk/criticality and whole-of-life costs of different pipe classes are largely based on professional judgement and limited datasets. These models have a large impact on long-term plans for pipe renewals and other investment decisions. Improving these models can reduce uncertainty and risk from both a financial and an engineering perspective.
 - The project is fully funded and is available immediately.
 - Kobus van Zyl k.vanZyl@auckland.ac.nz

Any Other Items?

- Wiki:

<https://wiki.canterbury.ac.nz/display/QuakeCore/Special+Project+1%3A+Spatially-distributed+Infrastructure>