Infrastructure Monthly Meeting

Monthly Meeting 14/2/2022





Summary

- Introductions
- Presentation: "Vulnerability of Utility Poles to Tsunami Bore Impacts" Max Stephens
- Presentation: "Evolving landslide risk in the wake of a large continental earthquake" Tom Robinson
- Presentation: "Quantifying post-disaster transport disruption and resilience using simulation models" Seosamh Costello (Lifelines 2022 Conference Presentation)
- Highlights and Discussion
- Other items





Papers & Highlights

- Send through recently published papers
- Highlight at end of monthly meetings







ORIGINAL ARTICLE | ① Open Access | ② (*) (=) (\$)

A standardised inventory for New Zealand's stopbank (levee) network and its application for natural hazard exposure assessments

Kaley Crawford-Flett 🔀, Daniel M. Blake, Eduardo Pascoal, Matthew Wilson, Liam Wotherspoon

First published: 22 November 2021 | https://doi.org/10.1111/jfr3.12777

Funding information: Resilience to Nature's Challenges Programme (MBIE-funded); University of Canterbury Geospatial Research Institute; University of Canterbury Quake Centre







Safety Science

Volume 149, May 2022, 105688



Investigating evacuation behaviour under an imminent threat of volcanic eruption using a logistic regression-based approach

Snehalata Thakur ^a ≥ ⊠, Prakash Ranjitkar ^a, Soroush Rashidi ^b

Show more >

+ Add to Mendeley 📽 Share 🧦 Cite

https://doi.org/10.1016/j.ssci.2022.105688

Get rights and content







Journal of Hydrology: Regional Studies

Volume 40, April 2022, 100999



Mapping shallow groundwater salinity in a coastal urban setting to assess exposure of municipal assets

Irene Setiawan ^{a, b} ≈ ⊠, Leanne Morgan ^{b, c}⊠, Crile Doscher ^{a, b} ⊠, Kelvin Ng ^d ⊠, Amandine Bosserelle ^{e, f}⊠

Show more V

+ Add to Mendeley 📽 Share 🍠 Cite

https://doi.org/10.1016/j.ejrh.2022.100999

Under a Creative Commons license

Get rights and content

Open access





International Journal of Disaster Risk Reduction 72 (2022) 102841



Contents lists available at ScienceDirect

International Journal of Disaster Risk Reduction







Tsunami damage and post-event disruption assessment of road and electricity infrastructure: A collaborative multi-agency approach in Ōtautahi Christchurch, Aotearoa New Zealand

James H. Williams ^{a,*}, Thomas M. Wilson ^a, Liam Wotherspoon ^b, Ryan Paulik ^c, Emily M. Lane ^d, Nick Horspool ^e, Alana Weir ^a, Matthew W. Hughes ^f, Marion R. Schoenfeld ^g, Dave Brannigan ^h, Andrew Chalmers ^h, Peter Elliot ^h

- School of Earth and Environment | Te Kura Aronukurangi, University of Canterbury | Te Whare Wananga o Waitaha, Private Bag 4800, Otautahi | Christchurch, 8140, Aotearoa, New Zealand
- ^b Department of Civil and Environmental Engineering | Te Kura Pükaha Metarahi me te Taiao, University of Auckland | Te Whare Wananga o Tämaki Makaurau, Tämaki Makaurau | Auckland, 1010, Aotearoa, New Zealand
- Solutional Institute of Water and Atmospheric Research | Taihoro Nukurangi, Te Whanganui-a-Tara | Wellington, 6021, Aotearoa, New Zealand
- ^d National Institute of Water and Atmospheric Research | Taihoro Nukurangi, Ōtautahi | Christchurch, 3011, Aotearoa, New Zealand
- ^e GNS Science | Te Pū Ao, Te Awakairangi | Lower Hutt, 5040, Aotearoa, New Zealand
- ^f Department of Civil and Natural Resources Engineering | Pühanga Metarahi me te Rawa Taiao, University of Canterbury | Te Whare Wānanga o Waitaha, Ōtautahi | Christchurch, 8041, Aotearoa, New Zealand
- g Christchurch City Council, Ōtautahi | Christchurch, 8013, Aotearoa, New Zealand
- h Orion Group, Ōtautahi | Christchurch, 8053, Aotearoa, New Zealand





Lifelines 2022







NLUF 2021 (in 22)





Riskscape

- Riskscape 1.0 release
 - Open source for research applications
- https://riskscape.org.nz/





Coasts and Ports 2021

http://www.coastsandports2021.co.nz/







Other Items

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





Any Other Items?

Wiki:

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



