

Distributed Infrastructure RNC/QuakeCoRE

Monthly Meeting
13/11/2017

Summary

- Introductions
- “Electricity Network Assessment during Alpine Fault Event: microgrid as a solution for restoration” Samad Shirzadi Deh Kohneh (UA)
- “Assessing the long-term impacts of natural hazard events using integrated land use - economic - transport models” Rob Cardwell (UA)
- National Lifelines Forum Summary
- Other updates
- Discussion

Presentations

National Lifelines Forum

10.00 – 11.15: 'Lifelines 101': Understanding complex sectors

Insights into operating complex national networks and supply chains, building resilience into these and how minor and major outages are managed.

Rob Ruiter (Chorus), Andre Botha (Vector), Vaughan Grant (Foodstuffs), Julie Rea (Z Energy), Maurice Bone (BP).

11.45 – 1.00: Understanding National Infrastructure Vulnerability

National Vulnerability Assessment. A presentation on the NZLC review of New Zealand's nationally significant infrastructure, its vulnerability and resilience to hazards.

Roger Fairclough and Lisa Roberts, NZLC

Reflecting on learnings about national infrastructure vulnerability from the Kaikoura earthquake.

Colin Knaggs (NZ Transport Agency) followed by a panel discussion with national sector representatives.

1.45 – 3.00 Understanding National Infrastructure Vulnerability, cont'd

Landslide hazards, risks and infrastructure vulnerabilities – latest research and insights. *Sally Dallow, GNS.*

The Alpine Fault 'AF8' project: Reporting on the emerging findings and recommendations from 'AF8', a major national study into New Zealand's Alpine Fault risk. *Jon Mitchell, Project Manager AF8.*

Modelling national flood risk exposure and updates on the revised Coastal Guidance and NZ SeaRise.

Rob Bell, NIWA.

New Zealand's Transport System Strategic Resilience Project. *Shelley Tucker, Ministry of Transport.*

4.00 – 5.00: Hot Topics

Approaches to modelling disaster losses.

James Hughes, Tonkin and Taylor and Sam Ketley (AON).

The impact of a Mt Taranaki eruption on NZ's gas production (*Zoe Juniper, University of Canterbury*).

Valuing Infrastructure Resilience – tools to prioritise infrastructure resilience investment decisions.

Monique Cornish, Tonkin and Taylor.



National Lifelines Forum

9.00 – 10.00: Boosting Infrastructure Resilience - Wellington

The Business Case for Collective Investment: Wellington's Resilience Programme
Dame Fran Wilde, Chair, Wellington Lifelines Group

Modelling benefits of infrastructure investment (Riskscape / Merit).
Nick Horspool, GNS

10.00 – 11.00: Boosting Infrastructure Resilience – National Initiatives

MBIE's work on security of supply in the telco and fuel sectors, *Charles Jarvie and Gareth Wilson, MBIE.*

MCDEM's Lifelines Programme and Disaster Resilience Strategy, *Paul Bagg, MCDEM.*

Wellington Earthquake National Initial Response Plan, *Cara Gordon, MCDEM.*

11.30 – 12.30 Post Event Review and Recovery

Reflecting on the findings and actions arising from the Havelock North and other water supply events, Cyclone Cook/Debbie and Auckland fuel disruption.
Noel Roberts (Water NZ), Dave Brunsten (Kestrel).

2.15 – 3.00: Emerging Technologies - Risks and Opportunities

Lifelines infrastructure dependence on technology continues to increase. How are we managing risks associated with this dependence and using technology to improve resilience?

- GNSS - A National Positioning Infrastructure to meet an expanding group of users – what are the risks?
Graeme Blick (LINZ).
- Using geospatial tools to support CDEM and Lifelines in all phases of Emergency Management.
Paul Doherty, Eagle
Stephen Ferris, Stratsim

Conferences



ENERGY EVENTS CENTRE ROTORUA | 21 - 22 JUNE 2018


- <http://ipweanz2018.co.nz>
- Abstracts due 17th Nov

Conferences

9th Annual Global Forum on Urban Resilience & Adaptation
26 - 28 April 2018 | Bonn, Germany

The logo for Resilient Cities 2018 features three orange circles above a wavy purple line. Below this, the text "Resilient Cities" is in a bold, black sans-serif font, and "2018" is in a smaller, orange, handwritten-style font.

**Resilient
Cities 2018**

- 
- A decorative horizontal line consisting of a series of small squares in various colors (orange, purple, grey) arranged in a pattern that resembles a stylized city skyline or a data visualization.
- <http://resilientcities2018.iclei.org/>
 - Abstracts due 17th Nov

Other Items?

- Wiki:

<https://wiki.canterbury.ac.nz/display/QuakeCore/FP6%3A+Distributed+Infrastructure>