

Natural Hazards Inc. Building Resilience to Earthquakes and Other Natural Hazards

Natural Hazards Inc. is a New Zealand based partnership of industry leaders delivering innovative solutions for earthquake and natural hazard risk management internationally. www.naturalhazards.co.nz

Many off shore project initiatives require diverse specialist skills and products. With the assistance of Natural Hazards Inc. these can be marshalled together from amongst the 30 member companies and organisations. The cluster helps members to develop and maintain international relationships, sustaining New Zealand's international standing in earthquake engineering and natural hazards disaster risk management.

Resilience Stories Inspire Photobook Marking 10 Years of Recovery in Aceh.

The recently released *Aceh Revives* photobook produced by development specialist Dr Noel Trustrum of GNS Science provides stunning photos and personal accounts from a project in Indonesia of repeat photography and interviewing researchers, industry, local government officials and tsunami survivors, 10 years since the Indian Ocean Boxing Day earthquake and tsunami.



This well illustrated 218 page book has brought to life a number of powerful stories. It celebrates the amazing spirit, resilience and achievements of the people of Indonesia as well as highlighting the lessons learnt for future generations.

This important project initiative has been officially endorsed by Dr Kuntoro Mangkusubroto, former Head of the Rehabilitation and Reconstruction Board (BRR – Badan Rehabilitasi dan Rekonstruksi) and now Head of the Indonesian President's Delivery Unit for Development Monitoring and Oversight (UKP4).

View the project website at: www.acehrevives.com
And also view the video that outlines this either via the website or youtube: http://youtu.be/Wap_gGRqx5I
GNS Science contact: Noel Trustrum
Email: n.trustrum@gns.cri.nz Phone: +64 21 242 5287

GNS Science and Hokkaido University have signed an agreement to work together on natural hazards.



Professor Tomomi of Hokkaido University and Dr Mike McWilliams, Chief Executive of GNS Science, with the joint cooperative agreement between the two organisations for working together on natural hazards research. Hokkaido University, located in the city of Sapporo on the northern island of Hokkaido, is one of the most prestigious universities in Japan and is designated as one of Japan's Seven National Universities. It has a strong reputation for research on natural hazards.



**Strengthened Indonesian Resilience
Reducing Risk from Disasters**
www.strrrd.org

A local government disaster risk reduction (DRR) capacity building project is underway in Indonesia through a MFAT NZ Aid Programme initiative led by GNS Science with Universitas Gadjah Mada (UGM) of Yogyakarta, and also involving Beca. Initiatives include a recently held Base Isolation Training Workshop held in Padang with the Universitas Andalas (UNAND) with 45 participants from 4 provinces, 6 StIRRRD districts, National Government, private consultants and universities. StIRRRD Co-Leaders are: Michele Daly of GNS Science (M.Daly@gns.cri.nz); and Faisal Fathani of UGM (tfathani@gmail.com)



Presenter Georgia Whitla from Beca NZ and Maya Iskandar from Beca Jakarta at the venue for the training, the Ibis Hotel in Padang which is base-isolated with isolators on display in the basement area.

Mataram DRR Action Plan Workshop Indonesia



Part of the StIRRRD team was recently back to Mataram, in the island of Lombok, in the West Nusa Tenggara province of Indonesia, for an Action Plan Workshop focused on dealing with issues around vulnerability to coastal erosion, floods, earthquakes and tsunami.



This workshop was with local BPBD partners, officials and the local university. It included specialists from UGM, GNS Science, NZ MFAT, Indonesia tsunami expert Gegar Prasetya, and flood expert James Flanagan from the Wellington Regional Council.



With a population of 250 million and frequent natural disasters, the Indonesian Government is taking action to reduce losses from natural disasters and strengthen community resilience.

Palu, Sulawesi

Palu, with a population of 350,000, is the capital of the Indonesian Province of Central Sulawesi. It is a large city with a landscape shaped by the active Palu-Koro Fault, with earthquakes, landslides and debris flows a common occurrence. The houses in the view below are being undermined by river flooding and scouring.



DRR Action Planning in Palu is on-going with a mix of organisations involved including BPBD (emergency management), Bappeda (planning), public works, social and health agencies, and NGOs, as well as elected representatives.



Palu workshop participants in a group photo

Third UN World Conference on Disaster Risk Reduction: Sendai, Japan, 14-18 March 2015

A strong NZ contingent of over 40 people from across Government and non government organisations are attending the Third United Nations World Conference on Disaster Risk Reduction (3WCDDRR) being held in Sendai, Japan. This includes Natural Hazards Inc. Co Chair Hannah Brackley, who is Manager Policy & Strategy for the New Zealand Natural Hazards Research Platform, a multi-party research platform dedicated to increasing New Zealand's resilience to natural hazards via high quality collaborative research.

This is the largest and most important event on the global disaster risk reduction (DRR) calendar this year. The post-2015 Framework on Disaster Risk Reduction will be adopted at the Conference. New Zealand's delegation to the Conference will share their experiences as well as learn from international partners. New Zealand believes strong partnerships are fundamental to effective DRR.

Links include: <http://www.wcdrr.org/>
New Zealand Ministry of Foreign Affairs & Trade:
www.mfat.govt.nz/drr2015



Disaster Prepare Ltd and Learn.Fast Pacific have been working with UNISDR and South Pacific Tourism Organisation to provide Resilient Resort Training in the Pacific. The programme is aimed at small community owned resorts. Specific outcomes include, understanding risks from natural hazards, assisting resorts to develop a basic BCP, establishing a one page emergency plan to brief guests on arrival, fostering a better collaboration between resorts, and identifying business growth opportunities. Following a successful pilot in Fiji last year, the programme is to be extended in 2015/6.

Natural Hazards Mapping Project Vanuatu

A team led by Beca's Planners is in Port Vila, Vanuatu, for two weeks in March to initiate a World Bank-funded project for the Vanuatu Meteorology and Geo-hazards Department.

The project will map a range of natural hazards such as flooding, storm surge, tsunami, land instability and cyclonic winds, and will produce natural hazards maps for the two main urban centres of Vanuatu – the capital city Port Vila (45,000 population approx.) and Luganville, the main settlement on the island of Espiritu Santo in the north of the country (population approximately 13,000).

These maps will form the basis of proposed urban land use and zoning plans which will be more reflective of the risks from natural hazards than current plans. This project is at the leading edge of the World Bank's programme of climate change-induced hazards management in the Pacific Islands and is being closely watched by a number of other countries. The project is scheduled to take one year to complete.

The Beca team includes Planning Technical Directors Graeme Roberts and Cushla Loomb, and Lesley Hopkins, Senior Associate – Planning. It also has support from specialist sub-consultants from GNS Science and NIWA (National Institute of Water and Atmospheric Research).

New Zealand Disaster Risk Management Advisory Group:

With the Government appointment of Phillip Gibson as DRM Special Envoy and the closer liaison with Ministry of Foreign Affairs and Trade there has been good progress made in developing increased collaboration through a Disaster Risk Management External Advisory Group that includes representation from across a range of Government and non government organisations including Natural Hazards Inc., to encourage better coherency around offshore DRM engagement. Phillip Gibson was a previous New Zealand Ambassador in Indonesia.

Interesting Links

For the latest news and events from other organisations:

- MFAT NZ Aid Programme: www.aid.govt.nz/
www.mfat.govt.nz/drr2015
- CERA (Canterbury Earthquake Recovery Authority): www.cera.govt.nz
- Canterbury Earthquakes Royal Commission: <http://www.canterbury.royalcommission.govt.nz>
- New Zealand Society for Earthquake Engineering: www.nzsee.org.nz
- Pacific Disaster Net: <http://www.pacificdisaster.net>

Natural Hazards Inc. Members' Expertise

- Strategies for disaster risk reduction, readiness, response and recovery.
- Development of organisational frameworks for emergency management.
- Emergency management education.
- Community preparedness for natural disasters.
- Multi-hazard land use planning.
- Improvement of building controls, standards and codes.
- Seismic retrofit strengthening of buildings, including simple houses.
- Seismic isolation of important buildings such as hospitals, schools, emergency management centres, government buildings, apartment buildings and heritage buildings.
- Tsunami and flood risk assessment, modelling and mitigation strategies.
- Disaster risk insurance strategies and systems.

Natural Hazards Inc. Key Contacts

Co-Chairs:



Dr Hannah Brackley

GNS Science

+64 4 570 4564, +64 21 481 581

h.brackley@gns.cri.nz



Greg Szakats

URS Limited AECOM

+64 4 496 3760, +64 21 680 387

greg.szakats@urs.com

Facilitator:

Graeme Carroll

Global Reach Associates Limited

Graeme.Carroll@globalreachassociates.com

PO Box 10681

Wellington 6143

New Zealand

+64 4 470 5554, +64 21 435 401

Forthcoming Natural Hazards Inc Business Cluster

Meetings:

23 April 4pm Landcare Research

18 June 4pm URS AECOM

27 August 4pm GNS Science

22 October 4pm Robinson Seismic

3 December 4pm CSI Ferrosan