

Geological Hazards & Society Programme Objective 1 - Policy and land use planning for natural hazard reduction



Wendy Saunders



Objective 1 Key researchers

- GNS - Wendy Saunders, Julia Becker, Maureen Coomer, plus one ...
- NIWA - Terry Hume, Darren King, Taoho Patuawa
- Landcare Research – Paula Blackett
- University of Waikato – John Campbell



Objective 1 Overview

Land Use Planning and Policy for Reduction and Recovery

- Role of land use planning as a hazard risk mitigation tool and recovery tool
- Improve uptake of hazard information by practitioners with focus on land use planners
- Four key tasks, each with milestones and outputs

Objective 1 Tasks

1. Hazards land use planning & policy
2. Pre-event recovery (land use) planning
3. Role of community groups in hazard mitigation
4. Cultural understandings and traditional mitigation

Task 1 Milestone Hazards land use planning & policy

Develop best practice examples of innovative land use planning initiatives to minimise risk to community from hazard events and improve current hazard management planning practices.



GNS Science

Task 1- Hazards land use planning and policy

To improve understanding and application of hazard data by resource management planners as an integral part of the planning process with improved natural hazard policies and hazard maps within district and regional plans.



GNS Science

Outputs

1. Establish Natural Hazards Planning Advisory Group
2. Landslide hazard guidelines for resource management planners
3. Best practice examples of innovative land use planning initiatives
4. Natural Hazards Centre courses
5. Maori responsiveness (NIWA)

Natural hazards advisory group

- Meets twice a year
- Provides strategic overview of research
- Assesses barriers to land use planning in hazard areas
- Encourages buy-in, peer review
- Assists dissemination and uptake of research
- Includes MfE, EQC, LGNZ, University reps, regional and city councils

Landslide Guidelines

- For assessing planning policy and consent requirements for landslide prone land
- Two years in the making
- Draft out for comment - www.gns.cri.nz
- Based on 4360
- Finalised by June 2007
- Review uptake



GNS Science

Innovative land use planning

- Effective land use planning for natural hazard risk reduction
- Innovative vs effective
- How and when do you measure effectiveness?
- Does effectiveness decrease over time?
- Watch this space



GNS Science

ABOUT THE COURSES

In 2007 the Natural Hazards Centre will be running five two-day courses (with optional field trips) focussed on understanding natural hazards, and on ways that individuals, communities, organisations and government can plan to avoid and manage the consequences of disasters.

These courses are aimed at anyone with an interest or role, in assessing, managing or communicating the risks associated with natural hazards events.

Courses will be offered on the following topics:

- **Managing Coastal Hazards**
20-21 March 2007
- **Understanding and Managing Earthquake Hazards**
10-11 May 2007
- **Australasian Natural Hazards Management Conference**
2-5 July 2007
- **Planning for a Volcano Crisis**
5-7 September 2007
- **Managing Extreme Weather & Flooding**
20-21 September 2007
- **Understanding and Managing Landslide Hazards**
7-9 November 2007

Prior to each course we will send out detailed information about the course programmes, field trips, costs and registration forms.

For further information about these courses contact
Julia Becker at j.becker@gns.cri.nz or go to
www.naturalhazards.net.nz

COURSE PROGRAMME 2007

January 2007							February 2007							March 2007							April 2007						
Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	2	3	4	5	6	7	1	2	3	4				1	2	3	4				1	2	3	4			
8	9	10	11	12	13	14	5	6	7	8	9	10	11	5	6	7	8	9	10	11	2	3	4	5	6	7	8
15	16	17	18	19	20	21	12	13	14	15	16	17	18	12	13	14	15	16	17	18	9	10	11	12	13	14	15
22	23	24	25	26	27	28	19	20	21	22	23	24	25	19	20	21	22	23	24	25	16	17	18	19	20	21	22
29	30	31					26	27	28					26	27	28	29	30	31	23	24	25	26	27	28	29	
																					30						

May 2007							June 2007							July 2007							August 2007						
Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
8	9	10	11	12	13	14	8	9	10	11	12	13	14	8	9	10	11	12	13	14	8	9	10	11	12	13	14
15	16	17	18	19	20	21	15	16	17	18	19	20	21	15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28	22	23	24	25	26	27	28	22	23	24	25	26	27	28
29	30	31					29	30	31					29	30	31					29	30	31				

September 2007							October 2007							November 2007							December 2007						
Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7	1	2	3	4	5	6	7
8	9	10	11	12	13	14	8	9	10	11	12	13	14	8	9	10	11	12	13	14	8	9	10	11	12	13	14
15	16	17	18	19	20	21	15	16	17	18	19	20	21	15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28	22	23	24	25	26	27	28	22	23	24	25	26	27	28
29	30	31					29	30	31					29	30	31					29	30	31				

WHO SHOULD ATTEND

These short courses are aimed at anyone involved in the management of natural hazards including:

- Planners
- Emergency managers
- Educators
- Engineers
- Utility & asset managers
- Local, regional, and central government policy makers



GNS Science

Maori responsiveness

- NIWA
- Review of hazard related planning policy to determine how these associate to traditional Maori settlement in Whakatane and Turangi
- Maori environmental knowledge in natural hazards management and mitigation



GNS Science

Task 2 - Pre-event recovery (land use) planning

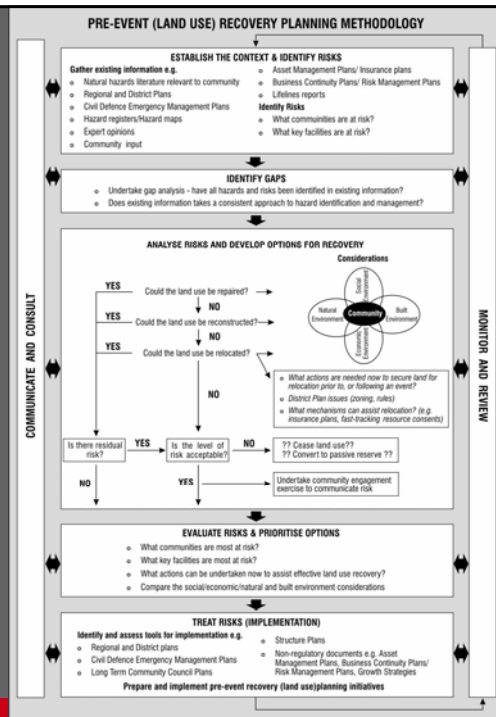
To develop an approach for developing pre-event (land use) recovery plans and encourage uptake of this knowledge by local authorities



GNS Science

Methodology for pre-event recovery planning

- Based on the Australian/New Zealand Risk Management Standard 4360:2004.
- Has been refined for specific land use recovery planning
- Test methodology
- Refine as required
- Spread the word



Task 3 - Role of community groups in hazard mitigation

To increase the active participation of community groups in minimising hazard risk through improved consultation methods and local government support and interaction.

Task 3 Milestone

Determine factors that lead to successful community group outcomes and the influence these groups have on the adoption of hazard mitigation policy development and implementation of hazard mitigation measures.



Bridge over Waiho River, Franz Josef

Outputs

- NIWA
- Community involvement in coastal hazard mitigation: an initial scoping of process and pitfalls



GNS Science

Task 4 Cultural understandings and traditional mitigation

- To build appreciation and acceptance of cultural understanding of natural hazards and traditional methods of hazard mitigation.
- Research Pacific Island cultural understandings of natural hazards and record traditional mitigation measures
- John Campbell and Maureen Coomer

GNS Science

Where to from here?

- Dissemination of research findings
- Review uptake of research
- New contract with FRST 2008

Contact:
w.saunders@gns.cri.nz

