

**REGISTRATION & PAYMENT DETAILS**

Complete your details and post, fax, email or phone in your registration today

GNS Science  
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Name .....

Organisation & address .....

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Phone ..... Fax .....

Email .....

Number of people registering .....

Special dietary or other needs .....

**PAYMENT DETAILS:**      \$250 per day (+GST)  
    \$1000 for 5 days (+GST)

- Day 1: Emergency management planning
- Day 2: Developing effective all-hazard warning systems
- Day 3: Evacuation planning and welfare
- Day 4: Classroom in the Coach
- Day 5: The role of public education, community engagement and public participation in building resilient communities

Request invoice

Cheque. Enclosed is a cheque for \$ .....  
 (payable to GNS Science)

Credit card       Visa       MasterCard

Card number .....

Expiry date .....

Cardholder name .....

Signature .....

The course cost will be charged for cancellations less than 10 days before the event. However, substitutions may be made at any stage at no cost. An invoice can be sent to organisations if requested.

**JOINT CENTRE FOR DISASTER RESEARCH**

The **Joint Centre for Disaster Research** opened in December 2006 and is a joint venture between GNS Science and Massey University, based within the School of Psychology. It is located at the Massey University campus in Wellington.

The centre undertakes multi-disciplinary applied teaching and research aimed at:

- gaining a better understanding of the impacts of natural, man-made, and environmental disasters on communities;
- improving the way society manages risk;
- enhancing community preparedness, response and recovery from the consequences of natural, man-made and environmental hazard events.



Riccarton Rd, Christchurch, after 4 Sept 2010 earthquake, GNS Science

**Who should attend this course?**

These courses will help you better understand how your organisation can prepare for, respond to and recover from a disaster.

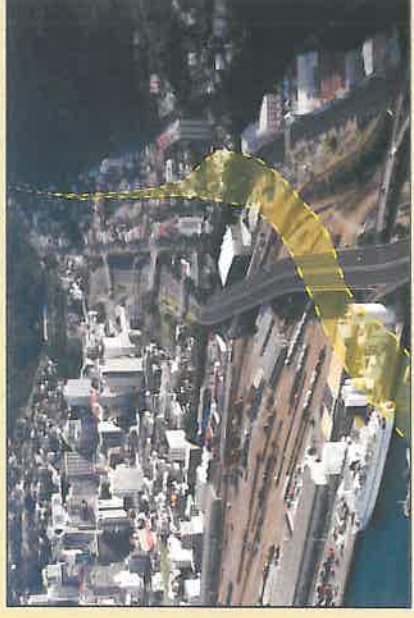
Emergency managers and social and physical scientists form part of the multi-disciplinary team that explores relationships between the physical and social aspects of natural hazards and their management.

The course is designed for those involved in all aspects of emergency management: planners, educators, engineers, local and central government policy makers, insurance managers, researchers, emergency managers and utility and property owners.

**EMERGENCY  
 MANAGEMENT  
 Summer Institute**

**Massey University Campus,  
 Wellington, New Zealand**

**7 - 11 March 2011**



Wellington Fault - illikely fault rupture hazard zone, GNS Science Photo Library

## ABOUT THE COURSE

This short course programme has been developed to provide a theoretical and practical introduction to selected topics relating to emergency management. Each course will begin with an introduction and review of New Zealand and international research and practice. The topics will then be explored through a series of relevant case studies. The final session of each module will provide practical tools and guidance for turning the 'theory to practice'.

## PROGRAMME

**DAY 1:** Monday, 7 March 2011: 9am–4:30pm

### Emergency management planning

This course will explore the range of emergency management planning processes and discuss issues that need to be addressed at a CDEM Group, community and organisational level. It will introduce the fundamental emergency management concepts, how these are applied in New Zealand and examine a number of recent events, such as 2004 North Island floods, 2004 Indian Ocean tsunami, 2005 Hurricane Katrina, 2010 Canterbury earthquake and other examples.



Mt Ruapehu, 1996

**Presenters:** Vince Cholewa, Michele Daly, Dianne Gardner, Bruce Glavovic, Steve Glassey, John Lindsay, Jon Mitchell, Douglas Paton, Wendy Saunders, Richard Smith, Rian van Schalkwyk.

**DAY 2:** Tuesday, 8 March 2011: 9am–4:30pm

### Developing effective all-hazard warning systems

This course will examine issues around improving the public's response to warning systems for weather, flooding, tsunami and other hazards. It will explore international examples of effective end-to-end warning systems and discuss research into the effectiveness of these systems. It will discuss existing training approaches among emergency response agencies and ways to improve these by developing and implementing new technologies and training methods. The course will also address the role of communities in developing and maintaining effective systems.

**Presenters:** Erick Brenstrum, Emma Doyle, Steve Glassey, David Johnston, Graham Leonard, Douglas Paton.

**DAY 3:** Wednesday, 9 March 2011: 9am–4:30pm

### Evacuation planning and welfare

This course will explore the range of issues around evacuation planning and welfare provision. It will examine evacuate behaviour (warning and evacuation compliance, route choice, visual cues) and the elements of effective evacuation planning (design requirements, the evacuation process, public information). Welfare issues are examined through a series of case studies, looking at evacuation and recovery centres (design, registration issues, and psycho-social support) and the provision of support for longer-term community recovery.

**Presenters:** Mark Constable, Steve Glassey, Sarah Jehal, Susan Jolley, Nuray Karanci, Douglas Paton, Angie Rodger, Ruth Tarrant, Ian de Terte, Robyn Tuohy, Kim Wright

**DAY 4:** Thursday, 10 March 2011: 9am–4:30pm

### Classroom in the Coach

During this day we will undertake a field excursion to explore many aspects of emergency management planning, land-use planning and options for mitigation in the Wellington and Hutt Valley. We will visit tsunami hazard zones, discuss tsunami warnings, explore the Wellington Fault, look at land-use planning for earthquakes, tsunami, landslides and flooding, examine community-based preparedness activities and visit the Wellington and Hutt Valley Emergency Operations Centres.

**Tour Guides:** Julia Becker, Wendy Saunders, Kim Wright, Rian van Schalkwyk.

**DAY 5:** Friday, 11 March 2011: 9am–4:30pm

### The role of public education, community engagement and public participation in building resilient communities

Drawing on recent research in New Zealand, Australia and internationally, this course will provide an evidence-based framework for understanding the role of public education (including schools), community engagement and public participation in building resilient communities. Case studies will examine both New Zealand and overseas examples of public education and community engagement initiatives and discuss monitoring and evaluation strategies.

**Presenters:** Julia Becker, Shane Cronin, Michele Daly, Miriam Hughes, Susan Jolley, David Johnston, Nuray Karanci, John McClure, Douglas Paton, Ruth Tarrant.

## SPEAKER PROFILES

**Julia Becker,** GNS Science. Julia has a research interest in how individuals' 'rندر' meaning from hazard information, and how this process feeds into preparedness.

**Erick Brenstrum** is an expert meteorologist working on the MetService severe weather forecast team, a regular contributor of articles on weather to the New Zealand Geographic magazine, and author of *The New Zealand Weather Book*.

**Vince Cholewa** is the Public Information Manager at the Ministry of Civil Defence & Emergency Management. His work includes advising the Director and National Controller, liaison with the Minister's office, other government agencies, the 16 regional civil defence emergency management groups, and other organisations, media relations, maintaining the Ministry's website, and advising Ministry spokespeople.

**Mark Constable,** emergency management advisor, Sector Development team, MCDERM. He is principle author of MCDERM's Mass Evacuation Planning Guideline.

**Prof. Shane Cronin** is the leader of Volcanic Risk Solutions, the multidisciplinary centre for applied volcanic hazard and risk management research at Massey University.

**Michele Daly,** GNS Science. Her research focuses on measuring the effectiveness of civil defence emergency management programmes and establishing 'resilience' measures for civil defence emergency management group plans.

**Dr Emma Doyle** is a FRST postdoctoral fellow at the Joint Centre for Disaster Research, Massey University. Her current research focuses on the communication and integration of science advice into emergency decision-making processes during natural hazard events.

**Dr Dianne Gardner** is a senior lecturer in industrial and organisational psychology in the School of Psychology at Massey University. Her research is focussed on the well-being and resilience of people in organisations.

**Steve Glassey** is a Senior Tutor at Massey University and former Disaster Management Officer with the United Nations, holding a Masters in Emergency Management.

**Prof. Bruce Glavovic** has over 20 years of work experience in academia, private consulting and Government. He is the first Earthquake Commission (EQC) Fellow in Natural Hazards Planning and is the Associate Director of the Massey University-GNS Science Joint Centre for Disaster Research.

**Dr Miriam Hughes,** joined the JCDR in July 2010. A sociologist, her position with the Centre involves researching, advising and publishing on past and current trends in public education, awareness and preparedness within the disaster and emergency management context and future directions for the field.

**Dr Sarah Jehal,** is currently based in London. For the last 18 months, he has held a variety of positions in the UK Department of Health, and is a Senior Research Officer at the JCDR with an interest in capacity building in psychosocial support before and after emergency events.

**Assoc. Prof. David Johnston,** GNS Science, Massey University, Director of the Joint Centre for Disaster Research. David's research has focused on reducing the vulnerability of society, the economy and infrastructure to hazard events.

**Susan Jolley,** works in community psychology for the Ministry of Social Development, based in the Bay of Plenty. Susan's work focus over the past 10 years has involved engaging with a broad range of communities that face challenges and need support in overcoming these, including response to the recent 2010 Darfield earthquake.

**Prof. Nuray Karanci,** Department of Psychology, Middle Eastern Technical University, Turkey. Nuray has extensive experience in post-disaster trauma and has also studied factors influencing people's preparedness for future hazard events.

**Dr Graham Leonard,** GNS Science. Graham's current research involves multi-agency emergency response planning and effective warning system response development for hazards: modelling community impacts and resilience to hazards.

**John Lindsay,** Assistant Professor, Dept Applied Disaster and Emergency Studies, Brandon University (Manitoba, Canada). John's research interests are on participatory planning and vulnerability and their influence on the growth of the profession.

**Prof. John McClure,** School of Psychology, Victoria University. John researches peoples' thinking and motivation with a special focus on preparing for serious risks such as earthquakes.

**Jon Mitchell,** Manager, Canterbury Regional EMO. Jon has a professional and research interest in the effectiveness of multi-agency emergency response coordination, related training and professional development.

**Prof. Douglas Paton,** School of Psychology, University of Tasmania, leading Emergency Management papers. Douglas researches the effects of natural environmental and technological consequences on communities.

**Chris Raine,** is a PhD student, School of Psychology, Massey University, researching the complexities of volunteerism in Emergency Management.

**Angie Rodger,** is a Senior Advisor at Hutt Valley Emergency Management Office and the current Hutt Valley Welfare Manager.

**Rian van Schalkwyk,** is the Manager, Emergency Management Office of the Wellington Region Civil Defence Emergency Management Group and a member of the United Nations Disaster Assessment and Co-ordination Team (UNDAC).

**Dr Ruth Tarrant,** lectures in the School of Psychology at Massey University, and is a research associate with the JCDR. Ruth's research focus on child anxiety and also the role of schools in disasters.

**Ian de Terte,** clinical psychologist, School of Psychology, Massey University. He has clinical experience of working with people that have been involved in disaster work. He is completing a PhD that is investigating psychological resilience.

**Robyn Tuohy,** is a researcher at the School of Psychology, Massey University, researching older people's experiences of evacuations.

**Wendy Saunders,** GNS Science. Wendy is a social scientist with a particular interest in land use planning and natural hazard risk reduction.

**Dr Richard Smith** leads the Ministry of Civil Defence & Emergency Management's hazard risk management and research programmes. He was previously a senior lecturer in natural hazards at Waikato University. Part of his role at the Ministry involves supporting the provision of science advice for emergency management planning and response, and enhancing the application of research to improve CDEM practice and policy.

**Kim Wright** is a Hazards Planning Scientist, GNS Science. Kim has a background in natural hazards research and emergency management planning.