



NEW ZEALAND  
GEOTECHNICAL  
SOCIETY INC  
www.nzgs.org

# ONE DAY SHORT COURSE & HALF-DAY SITE VISIT AGS LANDSLIDE RISK ASSESSMENT

**This short course introduces the Australian Geomechanics Society (AGS) Guidelines for Landslide Risk Management (AGS 2007) and the techniques set out in that guideline for assessing landslide risk.**

The overall aim of the short course is to provide geotechnical and engineering geological practitioners operating in various locations throughout New Zealand with an enhanced understanding and familiarity of the AGS2007 Landslide Risk Management guidelines.

The short course will also highlight and inform attendees of the recent development of two key New Zealand documents relating to guidance for Land Use Planning (GNS2023) and Slope Stability Geotechnical Guidance (NZGS 2023). Local representatives from each region will present some of these details as part of the short course.

Both Australian and NZ examples will be used to provide further relevant examples and learnings. In addition, opportunities will be provided for discussion and in-field assessment of landslides and slope instability hazards through a series of optional half day site visits the day following each of the short courses.

## WHERE AND WHEN

### AUCKLAND

**Monday 10<sup>th</sup> June 2024**

**University of Auckland Newmarket Campus.  
262 Khyber Pass Road, Room 902.402**

### WELLINGTON

**Wednesday 12<sup>th</sup> June 2024**

**Engineering New Zealand Te Ao Rangahau  
Level 6/40 Taranaki Street, Wellington**

### CHRISTCHURCH

**Friday 14<sup>th</sup> June 2024**

**University of Canterbury,  
John Britten Building, Conference Foyer 102, 69 Creyke Road**

## PRESENTERS



### DARREN PAUL

Darren is an Engineering Geologist with 25 years' experience. He has undergraduate qualifications in civil engineering and geology and postgraduate qualifications in engineering geology. Darren has recently led several major landslide risk assessment and management projects, including the extensive Victorian Alpine resorts 2020 risk assessment program which involved risk assessment across all assets in Victorian alpine resorts and remediation of the Bogong High Plains Road Landslide. He also authored the New South Wales National Parks and Wildlife Service Guidelines for Rock Fall risk assessment and is currently co-chair of the revision of the Australian Geomechanics Society Guidelines for Landslide Risk Management 2007.



### TONY MINER

Tony Miner has over 40 years' experience in a diverse range of projects in the geotechnical engineering, environmental engineering, engineering geology, coastal risk assessment, coastal geomorphology, erosion management and planning. He has focused on

risk management techniques and landslide studies over the past 30 years and has been a member of the various Australian Geomechanics Society's taskforces on landslide risk management and education programs. He currently co-presents the AGS's field techniques for landslide assessment course, maintains a strong involvement in landslide research and now serves as the co-chair of the steering committee currently undertaking a revision of the "AGS Landslide Risk Management Guidelines (2007)".

# SHORT COURSE: AGS LANDSLIDE RISK ASSESSMENT SEMINAR

## COURSE OUTLINE

**PART 1** Course introduction

**PART 2** NZ recent Guidelines and publications (to be presented by a NZGS representative)

**PART 3** Background and theory of landslide risk assessment. Definitions and terminology, quantitative vs qualitative risk, susceptibility hazard and risk mapping risk to life and risk to property, exposed population/societal risk and basic equations for risk estimation

**PART 4** Collection of information to undertake an LRA (including reference to local NZ resources). Landslide classification, desktop studies, frequency and likelihood estimation, consequence and impact, precision and accuracy

**PART 5** Calculating and evaluating risks (including a worked example and group discussion) – risk evaluation, example of risk calculations.

**PART 6** Additional issues (including discussion of local examples and the future revision of the AGS2007 guidelines). Alternative methods and update on future AGS revisions

**PART 7** General Q and A session

## COURSE PROGRAMME

Note: The timing and sequence may be changed on the day of the course

### DAY 1 – SHORT COURSE

<b>8:30 to 8:40</b>	Introduction
<b>8:40 to 10:15</b>	Session 1 - NZ documents, theory of landslide risk assessment
<b>10:15 to 10:45</b>	<i>Break - Morning tea</i>
<b>10:45 to 12:45</b>	Session 2 - Collecting Information to undertake an LRA
<b>12:45 to 1:30</b>	<i>Lunch</i>
<b>1:30 to 3:00</b>	Session 3 - Calculating and evaluating risk
<b>3:30 to 3:50</b>	<i>Break - Afternoon tea</i>
<b>3:50 to 4:40</b>	Session 4 - Additional issues
<b>4:40 to 5:20</b>	Q and A

### DAY 2 – OPTIONAL SITE VISIT

<b>8:30 to 8:40</b>	Registration - Assemble at designated meeting point
<b>8:40 to 9:20*</b>	Travel to site
<b>9:20 to 12:00</b>	Field visits and discussion / finish and return

\*varies by location



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## REGISTRATION

### REGISTRATION FEES

\$500 + GST for NZGS, NZSEE, SESOC and NZSOLD members (priority registration over non-members)

\$800 + GST for non-NZGS, NZSEE, SESOC and NZSOLD members.

Registration fees include attendance of the course and course material (digital course notes) and full catering for the day (morning and afternoon teas, lunch tea and coffee). Fees will not be refunded if a participant is unable to attend, although a nominated substitute person may attend. If the course is cancelled fees will be refunded in full.

### COURSE NUMBERS

Number of attendees is limited. Registrations will be accepted on a first come – first served basis.

### REGISTER ONLINE

Click on the link to register <https://www.nzgs.org/events/>