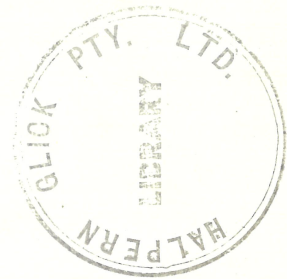


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**Fourth Australia — New Zealand Conference
on Geomechanics 1984**



“Geomechanics — Interaction”

**PERTH, WESTERN AUSTRALIA
14-18 MAY 1984**

**The Institution of Engineers, Australia
National Conference Publication No. 84/2**

Volume II

FOURTH AUSTRALIA – NEW ZEALAND CONFERENCE ON GEOMECHANICS

‘Geomechanics – Interaction’

**PERTH, WESTERN AUSTRALIA
14-18 MAY 1984
PREPRINTS OF PAPERS**



Sponsored by:

The Australian Geomechanics Society, a jointly sponsored technical unit of
The Australasian Institute of Mining and Metallurgy and The Institution of Engineers, Australia
and

The New Zealand Geomechanics Society, a technical unit of The Institution of
Professional Engineers, New Zealand

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Volume II

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PREFACE

The Fourth Australia New Zealand Conference on Geomechanics continues the sequence of conferences previously held in Melbourne (1971), Brisbane (1975) and Wellington (1980). The conference is related to the three main fields of geomechanics; soil mechanics, rock mechanics and engineering geology.

The conference has been organised by the Western Australian Group of the Australian Geomechanics Society, on behalf of the Australian and the New Zealand Geomechanics Societies. The conference is jointly sponsored by The Institution of Engineers, Australia, the Australasian Institute of Mining and Metallurgy and The Institution of Professional Engineers, New Zealand. It is also a regional conference of the International Society for Soil Mechanics and Foundation Engineering and a meeting of the ISSMFE Steering Committee will be held in conjunction with the conference.

These volumes include

- : All papers accepted for publishing
- : Papers prepared by Session Reporters
- : The keynote address.

The conference format has been developed to avoid parallel sessions while maximising the number of papers accepted for publication. This has resulted in the selection of a number of authors by the Session Reporters to make an actual presentation to the conference while incorporating sufficient time for discussion on all papers during each session. In addition, those authors not chosen to make a presentation to the conference have been given the opportunity to present a poster paper on their work.

It is also hoped that highlights of discussion in all sessions will be presented in serial form in forthcoming issues of the Geomechanics News.

Sponsorship by a number of local firms and companies has enabled us to develop an exhibition incorporating relevant industry displays etc., in conjunction with the conference. We wish especially to thank our sponsors for their willing and generous support. Interest has also been expressed for a number of Specialty Technical Sessions and we will be providing facilities for, and co-ordinating the timing of such sessions. It will be possible to accommodate a number of these specialty sessions depending mainly on the interest of those willing to organise them and a program will be distributed at the beginning of the conference.

We extend a warm welcome to Perth to all conference registrants and sincerely hope that the conference and associated activities live up to your expectations.

We wish in particular to thank all involved in the preparation and presentation of this conference.

May you thoroughly enjoy and gain from the conference.

Richard Jewell
Chairman
Organising Committee.

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