It is well established that the most useful and valuable information about the behaviour of buildings, civil engineering structures, and lifeline services in a damaging earthquake, is available immediately after the event occurs. As the emergency response progresses, the value diminishes as evidence of actual damage is covered up, torn down, or repaired.

Members will know that the New Zealand National Society for Earthquake Engineering has for many years operated a reconnaissance Scheme. Its purpose is to send a team into an area as soon as possible after an earthquake has struck, to record damage to buildings, infrastructure, geology, as well as note the effects on society. The information gleaned is used in the review of codes relating to all types of design and construction, and assists the promotion of awareness and practical preparedness for such events in this country.

The Reconnaissance Scheme operates a pool of specialists, structural, building services, electrical and mechanical engineers, architects, lifeline experts, geologists, etc., from which a team is selected—often at short notice. To function efficiently, the scheme requires additional personnel in all the above listed disciplines from virtually every part of the country. The exception is the Wellington region where, perhaps understandably, representation is adequate. The policy is to draw from people living outside the earthquake affected area because those in the area will already have their hands full.

Applications to join the team pool are invited from those experienced in earthquake design in the most general overall sense, who are fit, mobile, and again in the general sense, available.

Towards the end of 1995 the Society published a new edition of its Reconnaissance Manual and copies were provided to all current Team Pool members of the Earthquake Reconnaissance Scheme.

Membership of the Pool is currently 68 of whom 20 are in the Northern Region, 29 are in the Central Region, 12 are in the Southern Region, and 7 are overseas members.

In February of this year, the first earthquake reconnaissance training seminars for pool members were conducted in Wellington, Auckland, and Christchurch. The purpose of these seminars was to familiarise pool members with the Reconnaissance Manual, the administration of the Scheme, and the team selection process.

The following are brief notes and headings from the seminars which outline the Scheme and the Manual and which may stimulate the interest of members of the Society in joining the Team Pool.

Flow Charts setting out the decision-making procedures for initiation, the provision of resources, and the supporting of an earthquake reconnaissance for earthquakes which occur in New Zealand and those that occur overseas are illustrated in Figures 1 and 2.

TEAM SELECTION

Team selection, size, composition including range of disciplines and special knowledge, the number of teams, and sequence and follow-up, is determined by where the earthquake occurs, the availability and quality of the information on the earthquake and the initial assessments, the likely duration of the field investigation, conditions in the field, and for overseas earthquakes the likely quality and extent of the reporting by professional organisations within the country where the earthquake has occurred.

The policy of the Society regarding preference for earthquake reconnaissance team membership is as follows:

1. All earthquakes: Team Pool Members.
2. Earthquakes occurring in New Zealand: Team Pool Members from outside the devastated region.
3. Where people or people with specialist knowledge or expertise are not available from the Team Pool: Society members.
4. Where people or people with specialist knowledge or expertise are not available from the Society Membership: Non members.

Members of the Society, particularly those living outside the Central (Wellington) Region, are invited to apply to become Team Pool members. An application form is included in this copy of the Bulletin. The Team Pool also needs additional members in the disciplines of architecture, building services, social science, and natural disaster planning. The policy of the Society is that only members of the Society can become Team Pool members.
SCHEME AIMS

TO INVESTIGATE DAMAGING EARTHQUAKES THAT OCCUR WITHIN NEW ZEALAND AND, WHERE IMPORTANT LESSONS CAN BE LEARNT, THOSE THAT OCCUR OVERSEAS.

Objectives of Earthquake Reconnaissance

- The Advancement of Knowledge concerning the nature and effect of earthquakes on manmade structures
- The development of improved design and technology as a defence against unacceptable effects of earthquakes

Purpose of Manual

- Provides Information on
  - Policies
  - Administration Procedures
  - Operational Procedures
For the organisation of the scheme and the assembly and dispatch of Reconnaissance Teams
- Provides guidance for team members

Reconnaissance Scheme Manual

Section 1 Aims & Objectives
Section 2 Administration
Section 3 Operational Procedures
Section 4 Discipline Field Guides & Checklist
Appendices
### Manual Appendices

1. MM Intensity Scale Info
2. Pre-Departure Adm Checklist
3. Pro-forma Letters Adm
4. Expenses Adm
5. Recce Scheme Cmte Ops Duties
6. Team Organiser Duties Ops
7. Team Leader Duties Ops
8. Recce Scheme Membership Rolls Ops
9. NZ Civil Defence Act Info
10. Information Sources Info

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### Appendices (ctd) Field Guides

11. Geoscience
12. Engineering Seismology
13. Geotechnical
14. Engineered Structures
15. Industrial Facilities
16. Lifelines
17. Architecture & Urban Planning
18. Housing & Non-engineered structures
19. Social Impact & Emergency Response
20. Tsunami
21. Building Services
22. Fire
FIGURE 1 Decision making procedure for a New Zealand earthquake reconnaissance
FIGURE 2 Decision making procedure for an Overseas earthquake reconnaissance