

NZNSEE, P O Box 48-046, Silverstream, Upper Hutt. Costs are \$150 plus GST post free within NZ and \$185 post free overseas. Copies of the *Proceedings* of both the *1987 and 1991 Pacific Conferences on Earthquake Engineering* are also available at a price of \$50 plus postage, while stocks last.

Also available is *Seismic Design and Retrofitting of Reinforced Concrete Bridges* edited by R Park being the *Proceedings of the Second International Workshop held in Queenstown, New Zealand, 9-12 August 1994*, 794 pp.

Copies are available from Professor R Park, Department of Civil Engineering, University of Canterbury, Private Bag 4800, Christchurch, at a cost of \$70 US (NZ\$100) including packaging and postage. Professor MJN Priestley (USA) and Professor G Michele Calvi (Italy) are also holding copies for sale and will be advertising in their countries.

EARTHQUAKE RECONNAISSANCE PERSONNEL REQUIRED

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.

Readers 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.

An application form is published elsewhere in this issue. It should be completed and mailed as directed to the NZNSEE, P O Box 312, Waikanae, New Zealand.

Membership of the Reconnaissance Scheme Team Pool is open to Society members only.

SIGNIFICANT NEW ZEALAND EARTHQUAKES August 1997 to October 1997.

This information was supplied by Gaye Downes of the Institute of Geological & Nuclear Sciences.

The locations of these earthquakes are preliminary as final analyses have not been completed.

Date	Lat	Long	Depth (km)	Mag	
Aug 22	41.5S	173.8E	53km	5.1	9 km west of Blenheim. Felt in Wellington and Blenheim.
Aug 22	41.4S	173.9E	39km	4.7	7 km north of Blenheim. Felt in Blenheim.
Aug 24	39.8S	177.0E	40km	4.1	26 km south-south-east of Hastings. Felt in Hastings and Napier.
Aug 25	37.7S	175.6E	12km	4.3	10 km south-east of Morrinsville. Felt in Te Aroha.
Aug 30	41.4S	173.9E	43km	4.1	6 km north-north-west of Blenheim. Felt in Blenheim.
Sep 16	43.6S	170.0E	12km	4.7	10 km south-south-east of Fox Glacier. Felt in Greymouth and Mount Cook.
Sep 16	43.5S	169.9E	12km	4.8	11 km south-south-west of Fox Glacier. Felt on the West Coast.
Sep 17	39.0S	165.4E	5km	4.2	8 km north-north-east of National Park. Felt in Tongariro National Park area.
Sep 19	43.1S	171.6E	12km	4.9	24 km south of Arthur's Pass. Felt in Christchurch.
Sep 28	39.0S	175.4E	7km	4.7	11 km NNE of Tongariro National Park. Felt near Mt Ruapehu.
Oct 01	41.6S	174.1E	11km	4.2	9 km east of Seddon. Minor damage in Seddon. Felt in Blenheim and Wellington. Another

					earthquake with similar location and magnitude occurred at 0354.	Aug 20	41.64S	79.9E	10km	6.5	Mid Indian Ridge.
						Aug 27	6.02S	48.5E	33km	6.0	New Britain Region, P.N.G.
Oct 05	41.6S	174.1E	11km	4.4	9 km east of Seddon. Felt in Seddon and Blenheim. Another event with similar location and size occurred at 0653.	Aug 29	15.17S	175.7W	33km	6.5	Tonga Islands.
						Aug 29	3.53S	144.2E	33km	6.6	Near N. Coast of New Guinea, PNG.
Oct 14	21.9S	176.9W	166km	7.1	819 km north of Raoul Island. Reported felt in Wellington.	Sep 02	3.84N	75.7W	199km	6.8	Colombia. Felt at Armenia, Bagota, Cali, Menizales, Medellin, Pereira and many other parts of central and western Colombia. Also felt (II) at Panama City and Penonome, Panama.
Oct 16	43.2S	171.2E	12km	4.7	44 km south-south-west of Arthur's Pass. Felt at Lake Coleridge.	Sep 03	55.19S	128.9W	10km	6.1	Pacific Antarctic Ridge.

WORLD EARTHQUAKES OF MAGNITUDE 6.0 AND GREATER August 1997 to October 1997.

Data from the U.S. National Earthquake Information Service.

Date	Lat	Long	Depth	Mag						
				(km)						
Aug 08	15.46S	179.2W	33km	6.6	Fiji Islands.					
Aug 10	16.05S	124.3E	33km	6.3	Western Australia. Felt strongly along much of the west coast of Australia.					
Aug 13	25.01N	125.7E	55km	6.1	Southwestern Ryukyu Islands. Felt (IVJMA) on Miyako.					
Aug 15	4.39S	105.7W	10km	6.2	Central East Pacific Rise.					
Aug 17	13.66S	167.38E	33km	6.0	Vanuatu Islands.					
Aug 20	4.42N	96.6E	33km	6.0	Northern Sumatera, Indonesia. Several hundred houses destroyed in Aceh. Felt at Banda Aceh, Medan and other parts of northern Sumatera. Felt at Alor Setar, Petaling Jaya, Pinang and Shah Alam, Malaysia. Also felt at Hat Yai and Songkhla, Thailand.					
					Aug 20	41.64S	79.9E	10km	6.5	Mid Indian Ridge.
					Aug 27	6.02S	48.5E	33km	6.0	New Britain Region, P.N.G.
					Aug 29	15.17S	175.7W	33km	6.5	Tonga Islands.
					Aug 29	3.53S	144.2E	33km	6.6	Near N. Coast of New Guinea, PNG.
					Sep 02	3.84N	75.7W	199km	6.8	Colombia. Felt at Armenia, Bagota, Cali, Menizales, Medellin, Pereira and many other parts of central and western Colombia. Also felt (II) at Panama City and Penonome, Panama.
					Sep 03	55.19S	128.9W	10km	6.1	Pacific Antarctic Ridge.
					Sep 04	26.53S	178.3E	618km	6.8	South of Fiji Islands.
					Sep 10	21.31S	174.4W	33km	6.1	Tonga Islands.
					Sep 15	8.08N	126.6E	51km	6.1	Mindanao, Philippine Islands.
					Sep 20	28.68S	177.6W	30km	7.2	Kermerdec Islands Region. Minor damage on Raoul Island.
					Sep 21	7.36S	30.3E	10km	6.0	Lake Tanganyika Region.
					Sep 26	43.08N	12.8E	10km	6.0	Central Italy. Eleven people killed, more than 100 injured and about 80,000 homes destroyed or damaged in the Marche and Umbria regions by this earthquake and the earthquake at 0033 on September 26. Maximum intensity (X) at Serravalle di Chienti and (IX) at Valtopina. Extensive damage at the basilica of St Francis at Assisi. Felt in many parts of central and northern Italy from Bologna and Modena to Rome. Felt (IV) in western and central Slovenia and (III) in southern Kärnten Province, Austria.