

- 1). The subject of study and the applicant are considered suitable by the Management Committee of the NZNSEE. All applications must be completed by the person who will undertake the research;
- 2). Only one Scholarship will be awarded to any applicant in any given financial year;
- 3). The Scholarship is awarded for twelve months. Multi-year applications will not be considered, but all applicants can reapply each year;
- 4). On completion of the research project, a research paper is presented that is suitable for publication in the *Bulletin of the New Zealand National Society for Earthquake Engineering*. It is normal practice to withhold part of the Scholarship until this condition is fulfilled.

31st January is the annual closing date for applications which should be sent to:

The Administrative Secretary,
New Zealand National Society for Earthquake Engineering,
P O Box 48-046,
Silverstream,
Upper Hutt.

EARTHQUAKE COMMISSION REPORTS

Graham Quirke, the Administrative Secretary has recently received copies of the following EQC Research Reports:

"The Design of Permanent Slopes for Residential Building Development" by SA Crawford, PJ Millar, (Tonkin & Taylor), *EQC funded report 95/183- May 1998.*

"Earthquake-Induced Landsliding in New Zealand and Implications for MM Intensity and Seismic Hazard Assessment" by GT Hancox, ND Perrin, GD Dellow (IGNS), *EQC funded report 95/196- December 1997.*

"Seismotectonics of the Arthur's Pass Earthquake of 18 June 1994" by R Robinson, RE Abercrombie, TH Webb, PJ McGinty, T Arnadottir, JJ Mori, RJ Beavan, M Reyners (IGNS), *EQS funded report 95/197- July 1998.*

"Evaluation of Wells and Coppersmith (1994) Earthquake and Fault Relationships in the New Zealand Context" by Mark Stirling, David Rhoades, Kelvin Berryman (IGNS), *EQC funded report 97/249- December 1998.*

"Ash Predictions, How Successful Were they?" by AW Hurst and BJ Scott (IGNS), *EQS funded report 97/268- October 1998.*

These reports may be borrowed by applying to the NZSEE Administrative Secretary, PO Box 48 086, Silverstream, Upper Hutt.

BRIEF REPORT FROM THE 12WCEE ORGANISING COMMITTEE

Organisation of 12WCEE:

New Zealand's bid to host 12WCEE made at 11WCEE in Mexico was successful and in the period since 11WCEE the Organising Committee (12 members) had at least 15 meetings.

The Organising Committee established the following committees to report to it: Finance, Local Arrangements, International Liaison Committee, Publications, Publicity, Social Programme, Sponsorship and Exhibition, Technical Programme (19 members) and Technical Tours.

Convention Management Services Ltd., a company which is expert in the management of large conferences, was employed by the Organising Committee to arrange the non-technical details of 12WCEE, such as printing and distribution, registration, AV equipment and the many other tasks required to make the conference a well-run event. The technical secretariat was sited at the University of Canterbury.

Technical Papers:

The Organising Committee selected eleven state-of-the-art speakers in key areas of earthquake engineering; each to make a 30 minute presentation in plenary sessions.

The general call for Abstracts for technical papers resulting in about 2,700 Abstracts being received from at least 83 different countries, of which about 1,240 were in Structural Engineering, 356 were in Engineering Seismology and 354 were in Geotechnical Engineering. Suggestions for Special Theme Sessions were also received. About 400 international reviewers were used to assess the Abstracts.

In order to ensure uniformity of quality of all papers presented in sessions at the Conference and to avoid duplication of material presented as far as possible, Abstracts were requested for all papers in proposed Special Theme Sessions and they were reviewed along with the other Abstracts received. Each Abstract was sent to at least three Reviewers. The Technical Programme Committee arranged the accepted papers into sessions. Hence the distinction between general and special theme sessions disappeared in many cases, and the sessions are referred to simply as theme sessions each with the specific theme title of the cluster of papers within it, although as far as possible the proposed special theme sessions were kept intact.

As a result of the assessment of the Reviewer's gradings of the Abstracts, 90% of the 2,700 Abstracts submitted were accepted for the conference. Of the Abstracts accepted 20% were accepted for oral presentation and 80% for poster presentation. The Organising Committee was impressed with the success of the poster presentations at 11WCEE, which gave an excellent opportunity to discuss findings and ideas face to face with authors. A total of 1,028 posters were displayed during the 5 days of the conference. A total of 419 papers were presented orally in seven concurrent sessions. The poster presentations were given exclusive time.

A novel feature of 12WCEE was the Debate, which was organised for one of the evenings of the Conference. Two invited teams of experts debated the topic "That earthquake professionals are successfully meeting the challenge of reducing earthquake risk worldwide".

In addition during the conference there were special presentations on a number of recent earthquakes which occurred in 1999, including those that occurred in Colombia, Turkey and Taiwan.

Proceedings and Abstracts:

The Proceedings of the Conference in CD-Rom and hard copies of the Abstracts of all papers were issued to all registrants. The single CD-Rom contains all abstracts, papers and a search engine with capability to search by topic, author and word. Hard copies of the Proceedings (15 volumes) were also available at extra cost to registrants when pre-ordered.

Finance:

The Organising Committee prepared a detailed budget (20 pages). The total expenses budgeted were \$2.36 million NZ.

Various sponsors provided \$200,000 NZ and assistance with cash flow provided by our major sponsor the New Zealand Earthquake Commission. A registration fee of \$1,400 NZ for a full delegate, if paid before 31 October 1999, was set or \$1,600 NZ if paid after 31 October. The registration fee for an accompanying person was \$400NZ and for a full-time student was \$250NZ. There were also reduced registrations for one or two day attendance.

Donations from developed countries were sought by the President of IAEE to allow for some expenses to be met for some delegates from less developed countries. As a result about \$34,000 US was pledged and distributed by the Organising Committee.

Careful control of expenditure was necessary to meet budget constraints and ensure the best possible value for participants. With late support from local and overseas delegates the Conference was able to have a small surplus when all the finances were settled.

Attendance:

As at 1 February 2000 (during the conference) the total number of registrants reached 2,138 including accompanying persons (158), students and others, of which 1,524 were full delegates.

Registrations were received from 71 countries (see attached list). The number of registrations not including accompanying persons received from Japan was 696, from the USA was 265, from New Zealand was 146 and from Italy was 92.

Papers:

The Organising Committee is grateful for the assistance (reviewers, suggestions, etc.) it has had from many countries.

Bob Park,

Chair, 12WCEE Organising Committee.

Number of 12WCEE Delegates by Country

Algeria	1	Argentina	11
Armenia	1	Australia	39
Austria	5	Azerbaijan	3
Belgium	1	Bermuda	1
Bulgaria	1	Cameroon	1
Canada	41	Chile	22
China	61	Colombia	8
Costa Rica	4	Croatia	2
Cyprus	1	Czech Republic	2
Denmark	1	Ecuador	1
Egypt	1	Europe	1
Finland	2	France	20
Germany	15	Ghana	1
Greece	13	Hong Kong	3
Ibaraki	1	Iceland	5
India	23	Indonesia	6
Iran	15	Israel	2
Italy	92	Japan	696
Korea	32	Kuwait	1
Libya	2	Macao	1
Macedonia	5	Mexico	37
Moldova	1	Nepal	2
New Zealand	146	Oman	1
Peru	5	Philippines	2
Portugal	19	Republic of Georgia	1
Romania	8	Russia	9
Singapore	4	Slovakia	1
Slovenia	8	South Africa	1
South Korea	10	Spain	3
Sweden	2	Switzerland	13
Taiwan	20	Thailand	9
The Netherlands	2	Tunisia	1
Turkey	6	United Kingdom	28
USA	265	Uzbekistan	1
Venezuela	7	West Indies	1
Yugoslavia	5	TOTAL=	1762

PREFABRICATED STRUCTURES DESIGNED FOR EARTHQUAKE RESISTANCE

A Summary of the Fib Working Group

1. Objectives:

In 1998 the "Comite Europeen du Beton" (CEB) and the "Federation Internationale de la Precontrainte" (FIP) amalgamated into a single organisation "Federation Internationale du Beton" (Fib). Fib has set up 10 commissions to further the understanding and use of concrete. They include Commission 7 "Seismic Design". Initially four working groups have been set up under Commission 7 to cover:

- WG1 Assessment & Retrofit of Existing Structures
- WG2 Displacement Based Design & Assessment
- WG3 Prefabricated Structures Designed for Earthquake Resistance
- WG4 Prestressed Concrete Structures Designed for Earthquake Resistance