

DATES

Wednesday - Friday  
16 - 18 May, 1979

PLACE

Level 3 Lounge, Student Union  
Building, Ilam Road. A map of  
the campus will be sent to  
applicants.

FEE

\$50.00 payable on application  
using the attached form.

CLOSING DATE

Wednesday, 18 April 1979. Enrolment  
is strictly limited and will be accepted  
in order of application

S E M I N A R

SEISMIC DESIGN OF DUCTILE  
MOMENT-RESISTING REINFORCED  
CONCRETE FRAMES

Wednesday - Friday  
16 - 18 May, 1979

SEISMIC DESIGN OF  
DUCTILE MOMENT-  
RESISTING REINFORCED  
CONCRETE FRAMES

## Seminar

**SEISMIC DESIGN OF DUCTILE  
MOMENT-RESISTING REINFORCED  
CONCRETE FRAMES**

Arranged by the Departments of Extension Studies and Civil Engineering, University of Canterbury, in association with the N.Z. National Society for Earthquake Engineering.

## PROGRAMME

This workshop is intended for practising engineers interested in the application of current seismic design methods to reinforced concrete frame buildings. It will be based on the series of papers prepared by members of a study group and published in the Bulletin of the N.Z. National Society for Earthquake Engineering starting with the June 1977 issue (Vol.10 No. 2). The analysis, design and detailing of a medium rise building will be covered in such a way that participants will be actively involved with calculations and sketch designs.

Technical papers and set problems will be despatched to applicants on the closing date. This work is to be done prior to the workshop and all materials issued brought to the course.

Enrolment is limited.

## TIM TABLE

WEDNESDAY 16 MAY	
9.00 a.m.	Registration
9.20	WELCOME. <i>Professor R. Park</i>
9.25	INTRODUCTION AND BACKGROUND TO THE SEMINAR. <i>Professor R. Park</i>
9.40	PHILOSOPHY : <i>Mr R.L. Williams</i>
10.30	Morning tea
11.00	PRELIMINARY DESIGN : <i>Mr R.L. Williams</i>
12.30 p.m.	Lunch
1.30	ANALYSIS AND TORSION : <i>Mr G.K. Sidwell</i>
3.00	Afternoon tea
3.30	BEAM DESIGN AND DETAILING : <i>Mr G.K. Sidwell</i>
5.00	Adjournment
THURSDAY 17 May	
9.00 a.m.	EVALUATION OF ACTIONS : <i>Mr G.K. Sidwell</i>
10.30	Morning tea
11.00	COLUMN DESIGN : <i>Mr G.K. Sidwell</i>
12.30 p.m.	Lunch
1.30	BEAM - COLUMN JOINTS : <i>Mr R.L. Williams</i>
3.00	Afternoon tea
3.30	BEAM - COLUMN JOINTS : <i>Mr R.L. Williams</i>
5.00	Adjournment
6.00	Dinner
	Guest speaker : <i>Mr A.L. Andrews</i>
FRIDAY 18 May	
9.00 a.m.	FOUNDATIONS : <i>Mr R.L. Williams</i>
10.30	Morning tea
11.00	NON-STRUCTURAL ELEMENTS : <i>Mr R.L. Williams</i>
12.30 p.m.	Lunch
1.30	OTHER FRAMES : <i>Mr G.K. Sidwell</i>
3.00	Afternoon tea
3.30	Discussion
4.30	Close

## CONTRIBUTORS

- A.L. ANDREWS, B.E. (Hons) M.I.C.E., F.N.Z.I.E., Partner, Edwards Clendon & Partners, Consulting Engineers, Wellington.
- R. PARK, M.E.(N.Z.), Ph.D.(Brist.), F.R.S.N.Z., F.N.Z.I.E., F.I.C.E., F.I.Struct.E., F.A.C.I., M.ASCE, Professor and Head of Department of Civil Engineering.
- G.K. SIDWELL, B.E. (Hons), M.N.Z.I.E., Senior Engineer, Brickell Moss Rankine & Hill, Consulting Engineers, Wellington.
- R.L. WILLIAMS, B.Sc. (Hons) (Civil M.N.Z.I.E., District Structural Engineer, M.O.W.D., Hamilton

## APPLICATION

Department of Extension Studies  
University of Canterbury  
Christchurch

I wish to attend the seminar SEISMIC DESIGN OF DUCTILE MOMENT-RESISTING REINFORCED CONCRETE FRAMES.

Enclosed is fee of \$50.00 (Money Orders payable to C.P.O., Christchurch, cheques payable to University of Canterbury).

Name: \_\_\_\_\_

Address: (State Box Number if possible)  
\_\_\_\_\_

Applicant's Occupation: \_\_\_\_\_

Employer: \_\_\_\_\_

Please tick if you require a receipt

## SEMINAR: SEISMIC DESIGN OF DUCTILE MOMENT-RESISTING REINFORCED CONCRETE FRAMES

DATE: 16 - 18 May, 1979.

## PARTICIPANTS:

ADAMS, R.H.  
Consulting Engineer,  
P.O. Box 288, Greymouth.

BROWN, T.J.  
Civil Engineer,  
Box 395, Auckland.

CUSIEL, D.  
Structural Engineer,  
P.O. Box 1074, Christchurch.

FOX, G.W.  
Design Engineer,  
P.O. Box 275, Alexandra.

HANHAM, N.R.  
Consulting Civil,  
P.O. Box 13117, Christchurch.

HODGSON, R.A.  
Consulting Engineer,  
P.O. Box 4, Dunedin.

LING, R.  
Consulting Engineer,  
9 Victoria Street, Christchurch.

MARKS, E.  
Assistant Engineer,  
P.O. Box 237, Christchurch.

MORRISON, T.B.  
Engineer,  
P.O. Box 870, Christchurch.

SMART, N.  
Consulting Engineer,  
P.O. Box 5243, Dunedin.

WALPOLE, Dr W.R.  
Lecturer, Civil Engineering,  
University of Canterbury.

WOODFIELD, P.R.  
Engineer,  
P.O. Box 1472, Christchurch.

BROWN, N.C.C.  
Graduate Engineer,  
P.O. Box 6068, Dunedin.

CHALMERS, G.W.  
Civil Engineer,  
P.O. Box 1479, Christchurch.

DEANE, P.A.  
Structural Engineer,  
23 Curletts Road, Christchurch.

HALL, R.C.  
Consulting Engineer,  
P.O. Box 537, Hastings.

HARDING, D.  
Senior Engineer,  
P.O. Box 25-028, Christchurch.

HUNT, S.  
Engineer,  
31 Kotare Street, Christchurch.

LOUGHNAN, A.A.M.  
Consulting Engineer,  
P.O. Box 537, Hastings.

McLEOD, D.  
Assistant Engineer,  
P.O. Box 237, Christchurch.

OLDFIELD, C.  
Consulting Engineer,  
P.O. Box 12-220, Wellington.

WALLACH, L.K.  
Structural Engineer,  
P.O. Box 235, Balclutha.

WHITHAM, B.F.  
Engineer,  
P.O. Box 8074, Christchurch.