

# **AUSTRALIAN AND NEW ZEALAND CONFERENCE ON THE PLANNING AND DESIGN OF TALL BUILDINGS**

## **PRE AND POST CONFERENCE TOURS**

<b>CT1 7 DAY BARRIER REEF</b>
<b>CT2 8 DAY CENTRAL AUSTRALIA KINGS CANYON, AYERS ROCK, ALICE SPRINGS</b>
<b>CT3 WEEKEND WREST POINT CASINO — HOBART</b>
<b>CT4 7 DAY AUSTRALIA'S GOLD COAST</b>
<b>CT5 CANBERRA ONE DAY TOUR</b>

## **LADIES PROGRAMME DAY TOURS**

<b>CT6 CITY SIGHTS</b>
<b>CT7 NORTHERN BEACHES AND PITTWATER CRUISE</b>
<b>CT8 KATOOMBA AND BLUE MOUNTAINS</b>
<b>CT9 SYDNEY HARBOUR CRUISE</b>

AUSTRALIAN AND NEW ZEALAND CONFERENCE ON THE PLANNING AND DESIGN OF TALL BUILDINGS

CONFERENCE PROCEEDINGS

The conference papers listed above will be preprinted and issued during registration. In addition, some of the discussion will be preprinted and issued at the same time.

The entire proceedings of the conference, including the prepared and the free discussion, will be published as a single volume, which is expected to run to about 800 pages. The proceedings will be compiled by the Organizing Committee and printed by the ASCE-IABSE Joint Committee in Bethlehem, U S A. You may order the post-conference proceedings on this form, or before the conclusion of the conference, at a reduced price (equal to the cost of printing the extra copies, estimated at \$8 - 10, including postage). Copies may also be ordered after the conference, at the normal price.

**DISCUSSION**

Approximately one third of each session will be allocated to the presentation of the preprinted papers, one third to prepared discussion, and one third to free discussion.

You are invited to indicate your desire to contribute to the prepared discussion on the registration form, and you may prepare a written statement which will be distributed prior to the conference session. You will then be allowed five minutes for presenting your contribution. You will also be allowed five minutes for a contribution to the free discussion. The discussion will be recorded and published; however, you should, wherever possible, submit a written version of your contribution to ensure correct reproduction.

**EXHIBITION**

An exhibition on tall buildings in Australia and New Zealand will be arranged in the foyer of the Stephen Roberts Theatre, and remain open throughout the conference. Assoc Prof P R Smith, Department of Architectural Science, University of Sydney, would welcome offers of suitable photographs, appropriately mounted, for inclusion in the exhibition.

**CONFERENCE FEE**

The conference fee of \$60 includes the pre-prints, the cocktail party on Tuesday evening, the conference dinner (including wines and pre-dinner drinks) on Wednesday evening, all lunches and morning and afternoon teas. A fee of \$10 is payable for ladies wishing only to attend the cocktail party and dinner.

The fee of \$6 for the visits to tall buildings in Melbourne and in Sydney includes transport and lunch.

A special conference fee of \$15 is available to full-time students of engineering or architecture who apply for registration. This fee includes the preprints, morning and afternoon teas and lunches, but not the dinner or cocktail party.

In addition, foreign students who are in Australia under one of the aid programmes administered by the Commonwealth Department of Science and Education may apply to that Department for a travel allowance and for payment of the conference fee.

14TH — 17TH AUGUST, 1973  
Pre and Post Conference Tours

AIRLINES

QANTAS has been appointed official International Airline and TAA —Trans-Australia Airlines, is the official Domestic Airline to the Conference.

ACCOMODATION AND TOUR BOOKINGS

Confirmation of Accomodation and Tour Bookings will be sent on receipt of your REGISTRATION CARD.

International agents should direct bookings through QANTAS to SYDRRTN ATTENTION TALL BUILDINGS CONFERENCE

ABOUT THE TOURS

The following tours have been especially planned by TAA — Australia's largest domestic airline, to enable you to see Australia as it is —a big country, full of contrast and striking natural beauty.

TOUR PRICES INCLUDE

The cost of tours is not subject to alteration if Delegates make pre-payment when registering. Those booked after that date would be subject to alteration.

CT1	7 DAY BARRIER REEF
PRICE	\$265 per person
DEPARTS	Saturday 4 August, 1973 Saturday 18 August, 1973 Price includes return TAA T-Jet to Mackay and accommodation, also a day cruise of the Whitsunday Islands.
CT2	8 DAY CENTRAL AUSTRALIA KINGS CANYON, AYERS ROCK, ALICE SPRINGS
PRICE	\$338 per person
DEPARTS	Saturday 4 August, 1973 Saturday 18 August, 1973 Price includes return TAA T-Jet to Alice Springs, and accommodation at Elkira Court, the Oasis or the Territory Hotel Motel, plus cost of tour.
CT3	WEEKEND WREST POINT CASINO — HOBART
PRICE	\$121 per person, share twin. Single accommodation is available — surcharge on application
DEPARTS	Saturday 11 August, 1973 Saturday 18 August, 1973 Price includes return TAA T-Jet to Hobart, two nights accommodation in the comfortable Seaview Wing of Wrest Point Casino.
CT4	7 DAY AUSTRALIA'S GOLD COAST
PRICE	\$92 per person, share twin Motel \$110 per person, share twin Apartments \$97 per person, share twin Hotel
DEPARTS	Saturday 4 August, 1973 Saturday 18 August, 1973

MOTEL	Price includes TAA return economy class air travel, apartment accommodation and free ground transport between airport and apartments.
HOTEL	Price includes TAA return economy class air travel, hotel accommodation on a bed and breakfast basis and free ground transport between airport and hotel.
CT5	CANBERRA ONE DAY TOUR
PRICE	\$7 per person plus TAA air fares to Canberra.
DEPARTS	Mondays to Saturdays. The coach tour would visit such places as Regatta Point, Australia's National University, the Academy of Science and other general points of interest. With a special luncheon cruise on Lake Burley Griffin, leaving your afternoon free.

LADIES PROGRAMME

TOURS

It is expected that some members of the Congress may wish to participate in these tours with their wives and indeed it is hoped that they will avail themselves of this opportunity.

CT6	CITY SIGHTS
PRICE	\$3.75
OPERATES	9.15 am to 12.15 pm Includes such sights as the Rocks Area, Sydney Opera House, Botanical Gardens, travelling through Kings Cross to Vaucluse House and return via the Southern Beaches.
CT7	NORTHERN BEACHES AND PITTWATER CRUISE
PRICE	\$4.30
OPERATES	1.30 pm to 5.30 pm You travel over Sydney Harbour Bridge through the Northern Beaches, with a 35 minute cruise on the Pittwater and returning via Frenchs Forest and the historical Northbridge.
CT8	KATOOMBA AND BLUE MOUNTAINS
PRICE	\$6.25
OPERATES	9.30 am to 6.00 pm A magnificent day tour of the Blue Mountains including such sights as the Three Sisters, Echo Point, breathtaking views from the Scenic Railway and the Skyway Cable Car. Returning via Kurrajong Heights, Hawkesbury Valley and other points of interest.
CT9	SYDNEY HARBOUR CRUISE
PRICE	\$4.00
OPERATES	9.30 am to 12.00 noon 12.30 pm to 3.00 pm The "Aqua Cruise" on one of the largest and most beautiful harbours includes such sights as the Harbour Bridge, Opera House, past Goat Island, Watsons Bay to Manly and return. On board you have a choice of tea, coffee or drinks from the bar.

TAA is pleased to be the Official Travel Consultant to the Australian and New Zealand Conference on the Planning and Design of Tall Buildings.

TAA convention Advisers offer Friendly-way personalised attention for all your travel arrangements and touring.

International delegates please write to:—

Congress Tours Officer,  
Tall Buildings Conference,  
Box 4230, GPO,  
SYDNEY, NSW 2001

In Australia contact any of the TAA Convention Advisers:—

MELBOURNE	Mrs Meg Allen	34 0333
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PERTH	Miss Mary Hodgkinson	23 0331
HOBART	Mr Ron Fellow	34 4411
LAUNCESTON	Miss Rosemary Joscelyne	2 2331
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5

Aug 1973

# PLANNING AND DESIGN OF TALL BUILDINGS

SPONSORED BY — INSTITUTION OF ENGINEERS, AUSTRALIA — NEW ZEALAND INSTITUTION OF ENGINEERS — INTERNATIONAL ASSOCIATION FOR BRIDGE AND STRUCTURAL ENGINEERING — UNIVERSITY OF SYDNEY

TO BE HELD IN THE STEPHEN ROBERTS THEATRE, UNIVERSITY OF SYDNEY  
**FROM 14 TH TO 17 TH AUGUST, 1973**  
ENQUIRIES TO DEPT OF ARCHITECTURAL SCIENCE, UNIVERSITY OF SYDNEY  
SYDNEY, 2006, AUSTRALIA TELEPHONE 660 8849 OR 660 0522 EXT 2849

AUSTRALIAN AND NEW ZEALAND CONFERENCE ON THE PLANNING AND DESIGN OF TALL BUILDINGS

A conference on the planning and design of tall buildings will be held in the Stephen Roberts Theatre of the University of Sydney. It will be concerned mainly with structure, but it will in addition deal with the numerous other problems which need to be considered in the design of tall buildings, and which tall buildings create for their environment.

The Opening Session surveys the entire problem in broad terms. The four sessions on Wednesday consider the effects of dead and live loads, wind, earthquake and fire, the design criteria used to ensure safety, both for elastic and for limit-state design. The Thursday morning sessions deal with planning problems, ie when are tall buildings economical for the entrepreneur and for the community, what is the effect of tall buildings on the physical environment of the city, and what are the social problems created by tall buildings. Thursday afternoon is devoted to a discussion of eight of the most noteworthy tall buildings in Australia and New Zealand. The first three sessions on Friday deal with systems analysis, with special reference to new ideas on the design of the structure and the services. From 4.00pm on Friday, continuing after dinner, if need be, we will give those of our overseas visitors who have not been able to speak earlier, an opportunity to talk about their work. We expect a substantial number of eminent engineers from overseas.

CONFERENCE AIMS

The aim of this Conference is to provide a forum for those persons involved in the planning and design of tall buildings. Both local and international authorities will be present so that differences between Australian and New Zealand and overseas practice can be put in perspective. It is intended that the papers to be presented and the following discussion will have a major impact on the improvement of the quality, livability and economy of tall buildings; thus, the Conference should appeal to structural, mechanical and electrical engineers as well as to architects, planners and builders.

Conference Organizing Committee:

G W Anderson Commonwealth Experimental Building Station, Sydney, R M Aynsley University of Sydney, F A Blakey Division of Building Research, CSIRO, Melbourne, J Brothchie Division of Building Research, CSIRO, Melbourne, K Cavanagh Cement and Concrete Association, Sydney, H J Cowan Chairman, University of Sydney, A Funnell University of Sydney, J S Gero Vice-Chairman, University of Sydney, A S Hall University of New South Wales, R D Henderson Institution of Engineers, Australia, W Julian University of Sydney, M Lay BHP Research Laboratories, Clayton, Victoria, P Mehaffey Cement and Concrete Association, Sydney, J Metcalfe University of Sydney, J Nutt Ove Arup and Partners, Sydney, D J O'Loughlin Civil and Civic Pty Ltd, Sydney, J Rankine Rankine and Hill, Sydney, F S Shaw Sydney, R Shepherd University of Auckland, N Z, I Smith Brickell, Moss, Rankine and Hill, Wellington, N Z, P R Smith University of Sydney, R G Smith University of Sydney, E R Taylor Taylor, Thomson and Whitting, Sydney, A Wargon Wargon and Chapman, Sydney.

AUSTRALIAN AND NEW ZEALAND CONFERENCE ON THE PLANNING AND DESIGN OF TALL BUILDINGS

Monday, 13 August 1973

TOUR OF TALL BUILDINGS IN MELBOURNE

9.00 am Organized by the Division of Building Research, CSIRO. Cost \$6, including transport and lunch. Leave from the Travelodge Motel, Tullamarine at 9.00 am and finish at Tullamarine Airport in time for TAA flight 588, at 5.00 pm for Sydney.

Tuesday, 14 August 1973

TOUR OF TALL BUILDINGS IN SYDNEY

9.00 am Organized by the Cement and Concrete Association of Australia. Cost \$6, including transport and lunch. The tour will leave from St Johns College, University of Sydney at 9.00 am, and finish at the University of Sydney in time for the opening session.

3.00 pm OPENING SESSION

Chairman  
Prof A H Corbett, President of the Institution of Engineers, Australia.

Opening of the Conference

The Rt Hon The Lord Mayor of Sydney  
Alderman David Griffin CBE

Welcome

Prof W M O'Neil, Acting Vice-Chancellor of the University of Sydney.

Keynote Address

Prof H J Cowan, Chairman of the Conference Organizing Committee.

Invitation Lecture

Prof L S Beedle, Chairman of the Joint Committee on Tall Buildings of the American Society of Civil Engineers and the International Association for Bridge and structural Engineering, and Professor of Civil Engineering at Lehigh University, Bethlehem, USA.

5.30 pm Cocktail Party  
Wentworth Building.

Previously scheduled Sub-Committee Meetings have been cancelled due to lack of interest.

Wednesday, 15 August 1973

LIMITATIONS ON THE DESIGN OF TALL BUILDINGS

9.00 am The effect of wind and earthquakes on the design of tall buildings.

Chairman

Mr N Sneath, Assistant Director-General (Structural), Commonwealth Department of Works, Melbourne.

Speakers

Assoc Prof B J Vickery, Department of Civil Engineering, University of Sydney.

Dr E Rosenblueth, Director Instituto de Ingenieria, National Autonomous University of Mexico.

Assoc Prof R Shepherd, Department of Civil Engineering, University of Auckland.

10.30 am Morning tea

11.00 am The effect of fire on the design of buildings.

Chairman

Mr G W Anderson, Assistant Director, Commonwealth Experimental Building Station, Sydney.

Speakers

Dr M Lay, BHP Research Laboratories, Melbourne.

Mr D Sfintesco, Director of Research, Centre Technique Industriel de la Construction Metallique, Paris.

Prof I M Lyalin, Pro-Rektor of all All-Union Institute of Civil Engineering, Moscow.

12.30 pm Lunch  
Wentworth Building.

2.00 pm Design criteria and safety factors

Chairman

Prof J W Roderick, Department of Civil Engineering, University of Sydney.

Speakers

Mr T Jumikis, Partner, Woolacott, Hale, Corlett and Jumikis, Sydney.

Mr L E Robertson, Partner, Skilling and Robertson, Structural Designers of the World Trade Centre, New York.

3.30 pm Afternoon tea

4.00 pm Limit state philosophy loads.

Chairman

Dr F A Blakey, Assistant Chief, CSIRO Division of Building Research, Melbourne.

Speakers

Prof K L Stevens, Department of Civil Engineering, University of Melbourne.

Dr J Nutt, partner, Ove Arup and Partners, Structural Engineers, Sydney.

5.45 pm Conference Dinner  
Union Building

6.45 pm

Speaker

Prof D Winston, Department of Town and Country Planning, University of Sydney.

Thursday, 16 August 1973

PLANNING OF TALL BUILDINGS

9.00 am The economics of tall buildings

Chairman

Prof G E Roberts, School of Architecture, University of New South Wales.

Speakers

Mr C F Moore, Managing Director, Lend Lease Development, Sydney.

Mr G Clarke, Managing Director, Urban Systems Corporation, Sydney.

10.30 am Morning tea

11.00 am The environment of tall buildings

Chairman

Prof R N Johnson, School of Architecture, University of Sydney.

Speakers

Mr R M Aynsley, Department of Architectural Science, University of Sydney.

Mr R M Hall, School of Behavioral Sciences, Macquarie University, Sydney.

Mrs Judith O'Neill, Brotherhood of St Laurence, Melbourne.

12.30 pm Lunch  
Wentworth Building.

INTERESTING TALL BUILDINGS IN AUSTRALIA AND NEW ZEALAND

Case histories of important buildings, related by their designers, and followed by discussion.

2.00 pm Chairman

Prof F S Shaw, Consulting Structural Engineer.

Speakers

Mr N Abdallah, Civil and Civic Pty Ltd, Sydney

Mr David C Taylor, W P Brown and Associates, Melbourne

Mr J Payton, J Connell and Associates, Melbourne.

Mr J Fowler, Irwin and Johnson, Melbourne.

3.30 pm Afternoon tea

4.00 pm Chairman

Mr W Bunning, Architect, Sydney.

Speakers

Mr M Garnett, Rankine and Hill, Sydney.

Mr P O Miller, Miller, Milston and Ferris, Sydney.

Mr I G Smith, Bricknell, Moss, Rankine and Hill, Wellington, New Zealand.

Mr A. Wargon, Wargon, Chapman and Associates, Sydney.

5.30 pm End of conference session.

AUSTRALIAN AND NEW ZEALAND CONFERENCE ON THE PLANNING AND DESIGN OF TALL BUILDINGS

Friday, 17 August 1973

SYSTEMS FOR TALL BUILDINGS

9.00 am Service systems

Chairman

Mr K Cavanagh, Director of the Cement and Concrete Association of Australia, Sydney.

Speakers

Mr R Baum, Jaros, Baum and Bolles, Consulting Mechanical Electrical Engineers for the World Trade Centre, New York.

Mr D Norman, Norman, Disney and Young, Consulting Mechanical and Electrical Engineers, Sydney.

10.30 am Morning tea

11.00 am Structural systems

Chairman

Mr E R Taylor, Taylor, Thomson and Whitting, Consulting Engineers, Sydney.

Speakers

Mr H Iyengar, Associate Partner, Skidmore, Owings and Merrill, Chicago.

Mr J S Gero, Department of Architectural Science, University of Sydney.

12.30 pm Lunch  
Wentworth Building.

2.00 pm Environmental systems and systems methodology

Chairman

Dr D G Elms, Department of Civil Engineering, University of Canterbury, Christchurch, New Zealand.

Speakers

Assoc Prof K Reinschmidt, Department of Civil Engineering, Massachusetts Institute of Technology, Cambridge, USA.

Dr J Brothchie, Division of Building Research, CSIRO, Melbourne.

3.30 pm Afternoon tea

4.00 pm OPEN SESSION

Chairman

Mr J Rankine, Rankine and Hill, Structural Engineers, Sydney.

More than twenty distinguished overseas specialists on the design of tall buildings have expressed their interest to attend the conference. Since the actual attendance is not known at present, the organizing committee is allocating an open session during which as many as possible will address the conference. This session may continue beyond 5.30 pm, and it may resume after dinner. A detailed programme for the open session will be announced prior to or during registration.