It is with great pleasure that I present the 1991 Annual Report of the Institute of Transport Studies. This is the inaugural report for the Institute which was established in January 1991.

It is imperative for our economic well-being that all aspects of the economy are well managed. Our future lies with research and training, and as the annual report indicates, ITS is leading the way for the transport industry. After only one year, ITS has already had a significant impact.

ITS has interests in a wide range of transport issues which together with the Institute's practical orientation, has led to the development of an extensive network of working relationships. Although a university body, ITS activities are funded from external sources and it operates with the support of a large number of organisations.

I ask for your continued involvement and cooperation to achieve ITS objectives in 1992. Comments on the contents of this report are welcomed, as are any suggestions to help us meet our objectives more successfully and effectively in the second year of the Institute of Transport Studies.

Paul Brown
Chairperson
ITS Advisory Committee
CONTENTS

HIGHLIGHTS ................................................................. 2
Key highlights of 1991 for ITS

OVERVIEW ........................................................................... 3
Summary of the annual report

BACKGROUND ........................................................................ 4
Establishment and objectives of ITS

STAFF .................................................................................. 5
Positions and qualifications of staff

ORGANISATION ................................................................. 6
Organisational chart for ITS

STATEMENT ........................................................................... 7
Financial statement - income and expenditure

RESEARCH ............................................................................. 8
Description of research projects in 1991

PUBLICATIONS ...................................................................... 11
Publications by ITS staff

CONFERENCES ....................................................................... 15
Participation and attendance at external functions

POSITIONS .............................................................................. 18
Positions of responsibility held by staff

EDUCATION ............................................................................ 19
Educational activities at ITS

VISITORS ............................................................................... 22
Visitors to ITS in 1991

COMMITTEE .......................................................................... 24
Members of ITS Advisory Committee
Establishment of ITS
full teaching and research program at graduate level

Long distance truck driving project
major research project linking safety and economic reward

Fuel economy of automobiles project
contribution to transport and environment debate

Australian Research Council grants
two major ARC grants for 1992 awarded to ITS staff

Australasian Transport Research Forum
election of staff to key roles of Secretary and Treasurer

Certificate of Transport Management
pilot course under way for CTM (Bus and/or Coach)

Transport Policy Workshop
weekly addresses by leading transport professionals
The Institute of Transport Studies (ITS) was formally established in January 1991 within the Graduate School of Management and Public Policy at the University of Sydney. 1991 has thus been a year of establishment and consolidation for ITS. Time has been devoted to building up staff numbers, establishing resources and putting in place a framework for the long term stability, growth and development of the Institute. The education and research activities of ITS throughout the year have satisfied the objectives of the Institute.

The expert knowledge and skills of ITS staff have been engaged in a number of research and consultancy projects. Major projects in 1991 included a study of economic reward and on-road performance in the long distance trucking industry, the development of a route-level cost and revenue model system for the State Transit Authority and an econometric model system for predicting the fuel economy of automobiles. ITS has disseminated information about its research activity through a steady stream of publications in a range of formats and through participation and attendance at conferences and seminars.

On the teaching side, the transport management program was offered for the first year in 1991. The program includes a Master of Transport Management (MTM) and a Graduate Diploma in Transport Management (DipTM). A pilot course for the Certificate of Transport Management (Bus and/or Coach) also commenced in 1991.

The Institute of Transport Studies is a research body complementing the transport management program offered within the Graduate School of Management and Public Policy. ITS has two benefactors: the State Transit Authority (South & West Division) funds a research position located in ITS while the Bus and Coach Association (NSW) funds a position in the transport management program.
BACKGROUND

The Institute of Transport Studies forms a link in a triangle of international ITS's. ITS has a formal association with the Institute of Transport Studies at the University of Leeds and the Institute of Transportation Studies at the University of California (Berkeley and Irvine campuses).

The objectives of the ITS are:

- To offer an interdisciplinary environment in which University and other specialists can join forces to address contemporary transport problems.

- To undertake research, training and education in transportation with particular emphasis on economics, management, financing, planning and evaluation.

- To encourage and provide the resources for graduate research study in transport.

- To act as a focus within the University of Sydney for research in transport, co-ordinating projects, and providing a continuing basis of academic support.

- To increase public interest in the subject, reinforcing the University of Sydney's established name for excellence, and to develop sources of income for the Institute through the establishment of a series of coordinated short courses, sponsorships, consultancies and related activities.

- To attract outside funding for research and for related activities, including scholarships, visiting and research associate programs, conferences and seminars.

- To develop a publishing program to support the research initiatives in transport and to promote interdisciplinary contributions.

ITS is guided by an Advisory Committee of experienced and knowledgeable people whose purpose is to assist in the determination of the Institute's direction and priorities. The Advisory Committee met twice in 1991. The chairperson of the Committee is Paul Brown, recently retired General Manager of TNT.
Staff

David Hensher, BCom (Hons) PhD, FCIT
Professor of Management
Director, ITS

Paul Hooper, BEcon (Hons) MTransEc, MCIT ATRIF
Deputy Director, ITS
Senior Lecturer in Transport Management

Narinda Smith, BSc (Hons) PhD
Director, Transport Management Program
BCA (NSW) Senior Lecturer in Transport Management

Helen Battellino, BCom BA MTEc, MCIT
Lecturer in Transport Management

Frank Milthorpe, BSc
STA (SW) Principal Systems Analyst

Ian DeMellow, BCom (Hons) MTEc, MCIT
Visiting Rail Fellow

Julie Gee, BA
Senior Research Analyst

Rhonda Daniels, BSc (Hons)
Research Analyst

Vibeke Worsoe
Administrative Co-ordinator

Sharyn Clarke
Administrative Assistant

The roles of each staff member are shown in the organisational chart on the following page.
Statement

Income

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Research grants</td>
<td>90 000</td>
</tr>
<tr>
<td>Contract research</td>
<td>180 217</td>
</tr>
<tr>
<td>Educational activities</td>
<td>238 050</td>
</tr>
<tr>
<td>Donations</td>
<td>50 000</td>
</tr>
<tr>
<td><strong>Total Income</strong></td>
<td><strong>558 267</strong></td>
</tr>
</tbody>
</table>

Expenditure

<table>
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<tr>
<th></th>
<th>$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Labour</td>
<td>236 866</td>
</tr>
<tr>
<td>Sub-contracted research</td>
<td>56 100</td>
</tr>
<tr>
<td>Materials and equipment</td>
<td>142 350</td>
</tr>
<tr>
<td>Maintenance</td>
<td>19 880</td>
</tr>
<tr>
<td>Services and facilities *</td>
<td>24 506</td>
</tr>
<tr>
<td>Provisions</td>
<td>78 565</td>
</tr>
<tr>
<td><strong>Total Expenditure</strong></td>
<td><strong>558 267</strong></td>
</tr>
</tbody>
</table>

Notes:
This Financial Statement covers the calendar year 1991 and is based on the Budget Statement as at 31 December 1991.
As the summary is for the Institute of Transport Studies only, it excludes income from award students enrolled in the transport management program.
* ITS contributes 12.5% of income to GSMPP for overheads such as electricity, rent, telephones and postage.
Long distance truck drivers - On-road performance and economic reward

Client: Federal Office of Road Safety
This study investigated the economic conditions in the long distance trucking industry in Australia and links with road safety. Data were collected by in-depth face to face interviews with over 800 long distance truck drivers throughout Australia. An econometric modelling system was developed to fully examine the complex relationship of influences on the performance of long distance truck drivers, particularly the linkages between safe road behaviour and the underlying economic structure of the industry.

Route level revenue and cost management system

Client: State Transit Authority - South & West Division
The aim of the project was to develop software to integrate various cost and revenue databases at the bus route level into a usable management system for the organisation. Some data items were derived from analysis of surveys conducted in 1990 to identify commercial and non-commercial bus services by route. However progress on the PC computer-based software system has been delayed due to STA's re-structuring.

Development of a route service revenue model

Client: State Transit Authority - Eastern Division
A route-service level revenue model was developed for the STA's Eastern division using survey methodology similar to the South & West division study. More than 9,500 bus passengers were surveyed on 66 routes in the Eastern division in order to develop the model. A market study on potential demand from non-users for travel on government buses was also completed in conjunction with this survey.

Sub-Arterial Traffic Management (SATM) - Phase 2

Client: Willoughby Municipal Council; Roads and Traffic Authority of NSW
Residents' attitudes towards traffic control devices on sub-arterial roads were determined through in-depth interviews with 200 local residents both before and after the introduction of three SATM devices (roundabouts, thresholds and mid-block islands). A stated preference or trade-off design was used to collect data on the relevant trade-offs that residents were willing to make between local safety, cost of the device and local amenity.
Evaluation of alternative strategies to improve the fuel economy of passenger vehicles

Client: Nelson English, Loxton and Andrews; Ecologically Sustainable Development Transport Working Group

The central focus of this project was on forecasting household automobile energy demand. The objective was to outline the way in which the household based automobile demand modelling system can be used to evaluate the fuel consumption and energy demand implications of technology possibilities and a number of policy instruments including higher sales tax for fuel inefficient vehicles and higher fuel taxes overall. The base period was 1985-88, with forecast years of 1985, 2000 and 2005.

Productivity of Australian railways

A database on Australia's railway systems containing demand and supply indicators is being compiled, with data sourced primarily from Annual Reports. The database will be used to devise productivity measures to evaluate the performance of Australia's railway systems over a 20 year period from 1971/72 to 1989/90.

Review of evidence on elasticity of demand for airline travel

Client: Eastwest Airlines

The aim of this study was to review the published literature on the elasticity of demand for airline travel and to recommend elasticities for use in airline planning. The study also recommended actions to improve the airline's own database on travel to develop a more satisfactory understanding of demand relationships.

Review of planning reports for Eastern Corridor Transport Study (Melbourne)

Client: Five local government authorities including City of Nunawading

ITS acted as an Advisor to the local councils on the extension of the Eastern Freeway in Melbourne. This involved an expert review of planning reports on alternative urban and transport strategies and on urban goods movement, and a review of the expert consultants' submissions on the project.

Survey of trans-Tasman shippers

Client: Bureau of Transport and Communications Economics

A survey of exporters in both Australia and New Zealand using trans-Tasman liner shipping services is being administered on behalf of the BTCE and the New Zealand Ministry of Transport. The information will be used in a government review of trans-Tasman shipping policy.
| **Review of Urban Freight Survey** | *Client: Roads and Traffic Authority*  
A review of the NSW Transport Study Group's 1991 Urban Freight Survey was undertaken by ITS. A report was prepared which highlighted a preferred data strategy, with an emphasis on commodity movements in addition to vehicle movements. |
| **Bus and Coach Fact Sheet** | *Client: Bus and Coach Association (BCA)*  
A Fact Sheet was researched and designed for the Australian Bus and Coach Association. The Fact Sheet contained a summary of information and statistics on the private bus industry in Australia, compiled from a number of sources. |
| **Volvo Research Grant update** | A self-administered survey was designed for Bus and Coach Association members and mailed out in early 1991. The emphasis of the survey was on details of the bus and coach fleet required to investigate the variation in the capital valuation within fleets as a test of the usefulness of average asset valuations. |
| **Evaluation of health services** | Preparation and statistical analysis of survey data was carried out on behalf of Dr Ann Brewer, Senior Lecturer with the Graduate School of Management and Public Policy. The information is being used to evaluate clinical management services and patient care in John Hunter Hospital (Newcastle). |
| **Other areas of research** | Other areas of research undertaken in 1991 include: community transport; Very Fast Train market forecasts; performance indicators; profile of the land transport sector in Australia; discrete choice modelling of expenditure and destination choice; competitive tendering (public/private); and information management systems for small to medium sized bus companies. |
| **Research related activities** | A one day seminar titled "Safety and Performance in the Long Distance Trucking Industry" was organised by ITS in December 1991. The seminar was based on a research report completed by ITS for the Federal Office of Road Safety. The Hon. Bob Brown, Federal Minister for Land Transport, officially launched the report at the opening of the seminar. Over 40 delegates attended the seminar. |
**Publications**

*ITS Working Papers Series*


**ITS-WP-91-4**  The Role of Stated Preferences and Discrete Choice Models in Identifying Community Preferences for Traffic Management Devices, August 1991, 24pp. (Hensher, Battellino, Gee)

**ITS-WP-91-5**  The Spatial Distribution of Retail Expenditures: Joint Estimation of a Polychotomous Discrete-Continuous Choice System, August 1991, 22pp. (Barnard*, Hensher)

**ITS-WP-91-6**  Privatisation and Deregulation of Passenger Transport: A Summing Up, December 1991, 14pp. (Beesley*, Hensher, Talvitie*)


*Project reports, research reports*


Hensher and Hooper  

Journal papers

Hensher  

Hensher  

Hensher, Beesley* and Battellino  

Hensher  

Hensher  

Hensher  

Smith, Hensher and Wrigley*  

Gunn*, Bradley* and Hensher  

Hensher (ed.)  
Performance Measurement, Special Issue of *Transportation Research* (forthcoming).

Conference Proceedings

Hensher, Hooper and Smith  
Editorial duties

Hensher

Guest Editor of Transportation Research Special issue on Performance and Measurement
Editorial Boards Area Editor (Australasia) of Transport Reviews
Editorial Advisory Board of Transportation
Editorial Advisory Board of Transportation Research
Editorial Advisory Board of International Journal of Transport Economics
Editorial Board of Logistics and Transport Review
Editorial Board Member of Journal of Transport Economics and Policy
Associate Editor, Journal of Tourism Studies

Reviews of papers for:

Hensher

Economic Record
Review of Economics and Statistics
Journal of Transport Economics and Policy
Transportation Research Board Annual Meeting
Transport Reviews

Hooper

Australasian Transport Research Forum

DeMellow

Transportation Research
CONFERENCES

Conferences chaired


Hooper  IIR Conference - Government and Industry Reform in Road and Rail, Sydney, October 1991

Hooper  2 sessions 16th Australasian Transport Research Forum, Hobart, September 1991

Hensher  Second International Conference on Privatisation and Deregulation in Passenger Transportation, Finland, June 1991

Smith  Rapporteur

Hensher  IIR Conference - Exploiting New Market Opportunities in Passenger Transport, Sydney, April 1991

Hensher  Co-Chair, Department of Administrative Services 1 day workshop on Contracting Out, Canberra, May 1991

Papers and presentations

Hooper  Inbound Tour Operators Association Annual General Meeting, Sydney, November 1991
  "How well does our transport system serve the international visitor?"

Hensher  Institute of Engineers Workshop on Land Use and Transport Modelling, Sydney, October 1991
  "Transport Models into the 1990s"

Hensher, Gee and Battellino  16th Australasian Transport Research Forum, Hobart, September 1991
  "The use of discrete choice models in the determination of community choices towards sub-arterial traffic management schemes"

Hooper  "The performance of ocean cruising in Australia and future prospects"
Hooper and Hensher  IIR Conference - 6th Annual Conference on Tourism, Sydney, August 1991
"Tourism infrastructure - are we preparing for the future?"

Hensher, Smith and Hooper  Australian Tourism Research Institute Tourism Outlook Forum, Sydney, June 1991
"Developments in surface passenger transport - implications for tourism"

Hensher  Second International Conference of Privatisation and Deregulation in Passenger Transportation, Finland, June 1991
"Performance evaluation in passenger transportation: what are relevant measures?"

Hensher, presented by Milthorpe  Sixth International Conference on Travel Behaviour - Methods for Understanding Travel Behaviour in the 1990s, Quebec, May 1991
"Discrete choice models and stated response data - applications to sub-arterial traffic management"

Hensher  Department of Administrative Services, Contracting out in the Public Sector, May 1991

Hensher and Hooper  Australian Tourism Research Institute Seminar, April 1991
"The tourism potential of high speed surface transport and market studies undertaken for the VFT proposal"

Hooper  Bureau of Transport and Communications Economics Staff Seminar, March 1991
"A tourism perspective on aviation policy"

**Attended**

Smith  CAITR-Conference of Australian Institutes of Transport Research, Brisbane, December 1991
(Presented details of current research at ITS)


Hooper and Smith  Inbound Tour Operators Annual General Meeting, Sydney, November 1991

Hensher and Hooper  Chartered Institute of Transport Annual General Meeting, Sydney, November 1991
Hensher, Smith and Milthorpe
Institute of Engineers Workshop on Land Use and Transport Modelling, Sydney, October 1991

Hooper
National Conference on Tourism Research - The Benefits and Costs of Tourism, Port Stephens, October 1991

Battellino and Daniels
Australian Institute of Urban Studies Conference - Transport and Urban Form, Sydney, October 1991

Hensher, Smith and Battellino
Bus and Coach Association (NSW) Management Conference, Jamberoo, September 1991

Hensher, Hooper and Gee
16th Australasian Transport Research Forum, Hobart, September 1991

Hooper and Gee
IIR Conference - 6th Annual Conference on Tourism, Sydney, August 1991

Hensher, Smith and Milthorpe
Second International Conference of Privatisation and Deregulation in Passenger Transportation, Finland, June 1991

Milthorpe
Sixth International Conference on Travel Behaviour - Methods for Understanding Travel Behaviour in the 1990s, Quebec, May 1991

Hensher
AUSTROADS Conference on Travel Demand Management, Melbourne, April 1991

Hensher, Hooper and Gee
IIR Conference - Exploiting New Market Opportunities in Passenger Transport, Sydney, April 1991

Hooper
Australian Tourism Research Institute Seminars “Tourism forecasting at the Federal Airports Corporation and Qantas”; “Tourism in Kakadu National Park and its impact on the Northern Territory economy”
## Positions

### International

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hensher</td>
<td>Founding member, USA National Academy of Sciences, Transportation Research Board Committee on Traveller Behaviour and Values</td>
</tr>
</tbody>
</table>
| Hensher | Member, USA National Academy of Sciences, Transportation Research Board Sub-Committees on:  
  (a) Application of Behavioural Travel Demand Models;  
  (b) Value of Travel Time |
| Hensher | Member, USA National Academy of Sciences, Transportation Research Board Committee on Travel Forecasting |
| Hensher | Member, Steering Committee of 6th International Conference on Behavioural Modelling |

### Local

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hensher</td>
<td>Member, State Transit Authority (South &amp; West) Advisory Committee</td>
</tr>
<tr>
<td>Hensher</td>
<td>Chair, Working Party on Establishment of ATRF Association</td>
</tr>
<tr>
<td>Hensher</td>
<td>Treasurer, Australasian Transport Research Forum from September 1991</td>
</tr>
<tr>
<td>Hooper</td>
<td>Secretary, Australasian Transport Research Forum from September 1991</td>
</tr>
<tr>
<td>Hooper</td>
<td>Member, General Committee of the NSW Section of the Chartered Institute of Transport; also serving on the Education Sub-Committee; Convenor of the Business Plan Sub-Committee</td>
</tr>
</tbody>
</table>

### Internal (The University of Sydney)

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hensher</td>
<td>Member, Graduate Studies Committee</td>
</tr>
<tr>
<td>Hensher</td>
<td>Acting Director of Graduate School of Management and Public Policy</td>
</tr>
<tr>
<td>Hensher, Hooper, and Smith</td>
<td>Member, Institute of Transport Studies Advisory Committee</td>
</tr>
<tr>
<td>Hensher, Smith and Battellino, Smith and Milthorpe</td>
<td>Member, Certificate of Transport Management Advisory Committee</td>
</tr>
<tr>
<td>Smith</td>
<td>Chair and member, GSMPP Equipment Committee</td>
</tr>
<tr>
<td>Smith</td>
<td>Member, GSMPP Library Committee</td>
</tr>
<tr>
<td>Smith</td>
<td>Member, Faculty of Economics Computing Committee</td>
</tr>
<tr>
<td>Gee</td>
<td>Transport student representative on the Board of GSMPP and on the GSMPP Library Committee</td>
</tr>
</tbody>
</table>
Certificate of Transport Management (CTM)

ITS, with the support of the Bus and Coach Association of NSW, has been awarded funding from the NSW Education and Training Foundation (ETF) to establish a qualification for managers of bus and coach organisations. The Certificate of Transport Management (Bus and/or Coach) is the only qualification suitable for accreditation of operators under the NSW Passenger Transport Act 1990. A full-time academic co-ordinator was appointed in May 1991 and a pilot course commenced in August with 30 students. Two courses, each with 45 students, will be offered in 1992.

The CTM course is organised as a series of modules which are presented at weekend lecture sessions. The modules cover a wide range of topics including the history and structure of the bus and coach industry in NSW, business practices, management of human resources, safety and maintenance procedures, marketing and planning principles, and specific bus and coach operational and administrative aspects.

The CTM course is an innovative educational initiative supported by industry. The possibility of a Certificate of Transport Management (Rail) is currently being explored in conjunction with the State Rail Authority.

Award Courses

GSMPP offers two qualifications in transport: the Master of Transport Management (MTM) and the Graduate Diploma in Transport Management (DTM). In 1991 there were 44 MTM and DTM students. Several ITS staff members are undertaking further study at GSMPP. Julie Gee is enrolled in the Graduate Diploma program while 2 staff members are enrolled as PhD students with the following topics:

1990 Paul Hooper
Packaged travel opportunities with a proposed high-speed rail service between two large cities; stated response methods and behavioural travel modelling are being employed.
1991 Ian DeMellow
Total Factor Productivity of the Australian rail system

Other PhD students are:
1991 S. Suileman (RTA) - Transport planning
1991 Kam Tara - Sub-Arterial Traffic Management: the role of community attitudes

Staff also supervised the MBA dissertations of the following students:
P. Mukhia - Tourism development strategy for the state of Sikkim (Hooper)
i.-C. Moon - Airline competitive strategy in the presence of the VFT (Hensher/Hooper)
A. Yeung - The Government's role in the Australian Electronics Manufacturing Industry (Smith)

**Academic Prizes**

Awards for 1991 were presented at an end-of-year dinner attended by students, staff and members of the ITS Advisory Committee. The 1991 Chartered Institute of Transport prize for the most outstanding student in the Masters program was awarded to Kim Garner. The 1991 Australian Institute of Traffic Planning and Management prize for the most meritorious student in the Diploma program was awarded to Julie Gee. The Institute of Transport Studies prize for academic excellence was awarded to Michael Nyathi.

Subjects serviced in 1991 by ITS staff for the Graduate School of Management and Public Policy included:

**Semester 1:** Transport Policy Workshop I
Quantitative Analysis
Transport Economics and Management
Economics for Policy Analysis

**Semester 2:** Transport Policy Workshop II
Urban Public Transit Management *
Tourism Management *
Marketing Research Methods and Analysis

**Non-Award Courses**

The courses marked with an asterisk in the list above are open to the public to undertake as non-award subjects. In 1991 there were 30 non-award students.
**Transport Policy Workshop**

The subject Transport Policy Workshop is a weekly forum, open to the public, for discussion of transport policy issues. Speakers include distinguished professionals in the transport industry representing all modes and both private and public sector interests.

Speakers in 1991 are listed below.

**Semester 1**

<table>
<thead>
<tr>
<th>Name</th>
<th>Position and Company</th>
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</thead>
<tbody>
<tr>
<td>Max Moore-Wilton</td>
<td>Chief Executive, Maritime Services Board</td>
</tr>
<tr>
<td>Llew Russell</td>
<td>General Manager, Shipping Conference Services</td>
</tr>
<tr>
<td>Colin Eggleston</td>
<td>Deputy General Manager, TNT Australia</td>
</tr>
<tr>
<td>Ross Sayers</td>
<td>Chief Executive, State Rail Authority</td>
</tr>
<tr>
<td>Alan Castleman</td>
<td>Chief Executive, Very Fast Train Project</td>
</tr>
<tr>
<td>Peter O'Connor</td>
<td>Executive Director, NSW Road Transport</td>
</tr>
<tr>
<td>Brian Langton</td>
<td>NSW Shadow Minister for Transport</td>
</tr>
<tr>
<td>Richard Cox</td>
<td>General Manager, NRMA</td>
</tr>
<tr>
<td>Roger Graham</td>
<td>Director, Roger Graham and Associates</td>
</tr>
<tr>
<td>Bryan Grey</td>
<td>Managing Director, Compass Airlines</td>
</tr>
<tr>
<td>Stephen Morris</td>
<td>Executive, Corporate Services, Schroders</td>
</tr>
</tbody>
</table>

**Semester 2**

<table>
<thead>
<tr>
<th>Name</th>
<th>Position and Company</th>
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<tbody>
<tr>
<td>John Brew</td>
<td>Chief Executive, State Transit Authority</td>
</tr>
<tr>
<td>Nell Berket</td>
<td>General Manager, Eastwest Airlines</td>
</tr>
<tr>
<td>John Dart</td>
<td>Executive Director, Australian Federation of Travel Agents</td>
</tr>
<tr>
<td>Peter Prince</td>
<td>Managing Director, Travers Morgan</td>
</tr>
<tr>
<td>John Ward</td>
<td>Executive Director, Qantas Airways</td>
</tr>
<tr>
<td>Bruce Baird</td>
<td>NSW Minister for Transport</td>
</tr>
<tr>
<td>Peter Wolfe</td>
<td>Director of Corporate Strategy, RTA</td>
</tr>
<tr>
<td>John Walker</td>
<td>Executive Director of Policy and Review, NSW Department of Transport</td>
</tr>
<tr>
<td>Bob Brown</td>
<td>Federal Minister for Land Transport</td>
</tr>
<tr>
<td>Ted Butcher</td>
<td>Chairman, National Rail Corporation</td>
</tr>
<tr>
<td>Rob Schwarzter</td>
<td>Group General Manager, Cityrail</td>
</tr>
<tr>
<td>Peter Barnard</td>
<td>Manager, Economic and Market Intelligence, Australian Meat and Livestock Corporation</td>
</tr>
</tbody>
</table>
Professor Michael Beesley, London Business School (UK), December 1991 - February 1992

Dr David Gargett, Research Leader, Bureau of Transport and Communications Economics, to discuss transport databases, December 1991

Associate Professor Curt Grimm, University of Maryland (USA) Visiting Research Fellow with the Bureau of Transport and Communications Economics, to participate in the ITS seminar Safety and Performance in the Long Distance Trucking Industry, December 1991

Associate Professor Martin Putterill, University of Auckland (New Zealand), to give a presentation on Developments in Road Maintenance Management Systems, November 1991

Peter Ivanoff, Australian Management College, November 1991

Julian Ledger, Executive Officer, YHA (Youth Hostels Association), November 1991

Dr Chuck Purvis, Metropolitan Transit Commission, Berkeley California (USA), October 1991

Dr Derek Scrafton, Director-General of Transport (South Australia), to attend meeting of the Council of the Australasian Transport Research Forum, October 1991

Keith Long, Transport Consultant, October 1991

Professor Allan Shocker, University of Minnesota (USA), to discuss planning for Stated Response Methods workshop in July 1992, September 1991

Paul Dunn, Finance Director, State Transit Authority of NSW, September 1991

Timo Ernvall, Associate Professor of Transport Engineering, University of Oulu (Finland), September 1991 (with 12 students)
Wendell Cox and Jean Love, of Wendell Cox Consultancy (USA), August 1991

David Hawker, Federal Shadow Minister for Land Transport, July 1991

Dr Bob Hunt, Graduate School of Management, Macquarie University, to discuss ferry transport, June 1991

Albert Ang, Education Officer, Chartered Institute of Transport (Singapore), to discuss transport management education, May 1991

Dr John Miller, Marketing Representative, Fujitsu Australia, to enquire about the academic use for super computers, April 1991

Tricia Berman and Dr Geoff Thompson, Australian Science and Technology Council, to discuss transport research issues and options, April 1991

Tony Pomeroy, Director of Education, Training and Membership, Chartered Institute of Transport (UK), to discuss transport education, April 1991

Takashi Kuramata and Yutaka Ikeda, Consulting Division, Mitsui Research Institute (Japan), March 1991

Andrew Marks, Managing Director of Transoft International, to discuss educational uses for Transoft's management systems software for the freight industry, March 1991

Stewart Milne, Executive Director, Chartered Institute of Transport (New Zealand), March 1991

Hugh Gunn, Managing Director, Hague Consulting Group (The Netherlands), February 1991

Professor Michael Beasley, London Business School (UK), January 1991
Mr Paul Brown (Chairperson)
General Manager (retired)
TNT Australia

Dr Peter Barnard
Manager, Economic Market Intelligence
Australian Meat and Livestock Corporation

Professor Michael Beasley
London Business School

Mr Jim Bosnjak
Managing Director
Westbus Pty Ltd

Mr John Crowe
Director, Industrial Liaison
University of Technology, Sydney

Professor Simon Domberger
Graduate School of Management and Public Policy

Professor Pete Fielding
School of Social Sciences
University of California, Irvine

Associate Professor John Glastonbury
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