



## NEWSLETTER

October 2005 Edition

INSTITUTE OF TRANSPORTATION ENGINEERS  
AUSTRALIA & NEW ZEALAND SECTION INC

### ITEANZ AGM

The ITEANZ AGM was held on Wednesday 7 September 2005 in Melbourne. In the course of that meeting reports were received from the President, outgoing Secretary, and Treasurer.

The several new members have been added to the board of the ITEANZ while several other members have stepped down. The 2005-2006 Board is as follows:

- President – Peter Hunkin
- Immediate Past-President – Peter Daly
- Vice President – Dan Przychodzki
- Treasurer – Simone Hewitt
- Secretary – Emma Donnelly
- Membership - Chris Dack
- Seminars – David Harris
- Seminars – Michael Lee
- Student Chapters – Andrew Somers
- Newsletter – Mark O'Brien
- Andrew O'Brien
- Fotios Spiridonos
- Sigrid Sanderson (NSW)
- Andrew Edgar (NZ)

- Roger Dunn (NZ)

The new Board would like to thank the outgoing members for their contributions to the ITEANZ, particularly in helping to bring the 2005 ITE Annual Meeting & Exhibit to fruition.

Board members who have contributed greatly during their service to ITE who have departed this year include:

- Bill Saggors; and
- Wal Cichoki.



2005 ITE AM&E: A busy day at the exhibit hall

### 2005 ITE Annual Meeting & Exhibit

The major event from the 2005 calendar for the ITEANZ was the 2005 ITE Annual Meeting and Exhibit (AM&E) which was held from August 7-10 in Melbourne. This event was hosted outside North America for only the third time in 75 years and attracted substantial numbers of North American attendees as well as a healthy turnout from Australia and New Zealand.

The 2005 ITE AM&E should be considered a great success by any measure and our thanks go to those who put such great effort into the successful bid to host the event and to the Local Arrangements Committee for organising the event in association with ITE Headquarters in Washington D.C.

The ITE AM&E generated a wonderful collegiate atmosphere due to the higher than usual proportion of attendees who were present from the opening session to the final dinner on the Wednesday night. It was also noteworthy that the presence of so many presenters and attendees from outside of North America resulted in a more profound exchange of knowledge and different ideas than has been the case in recent times.

During the opening session of the 2005 ITE AM&E the Theodore M. Matson Memorial Award recognising outstanding contributions in the field of traffic engineering was bestowed upon John M. Mason of Pennsylvania State University and the Burton W.



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Marsh Award for Distinguished Service to the ITE was awarded to Steven B. Gayle.

A more complete discussion of the ITE AM&E from the President of ITEANZ will be included in the next newsletter.

### A Canadian Perspective on the 2005 ITE AM&E

By Alfred A. Guebert, P.Eng.,  
M.Sc., PTOE, Fellow



Since I was one of the candidates for International Vice President, we came a few days early to take part in the Board of Direction meetings which were held at the Mansion in Werribee, VIC. What a great place for a Board meeting. It was quiet and peaceful, and helped to get us in the right frame of mind for our discussions.

We travelled to Melbourne on Saturday, and booked in to the RACV club on Bourke Street (arranged by Peter Daly). I think this was even better accommodations than the mansion, and only a 15 minute walk to the Convention Centre.

We had heard that attendance at the meeting was not going to be what had been hoped for, but the registrations increased as it got closer to the meeting,

and turned out to be quite good. The meeting started on the right note with a very motivational talk by Dr. Ann Quinn who told us how to be the "CEO" of our own lives. The technical component of the meeting was outstanding! I think that, with the international flavour in every session and the involvement of the ARRB, this meeting was one of the best technical programs ever held by ITE. The local arrangements committee (led by Peter Daly and Andy O'Brien, with the help of the other Peters... Hunkin and Croft, Daniel, Simone, George, Deborah, John, Robert and Ted) did a fantastic job of coordinating everything, and making all of the visitors from across the water feel very welcome.

The social events were also outstanding. Nancy and I were the guests of Peter Hunkin and partner Lorraine at a "Footy" game on Saturday and were treated to a great game and great company. We enjoyed the "Old Boardies" dinner at the Kooyong Tennis Club on Monday evening, as well as the ANZ Awards breakfast on Tuesday morning (congratulations to Andy, Roger and Derek on their awards... well done!). The ITE 75th Anniversary Banquet on Wednesday evening was also a fabulous event with some more great entertainment (Music Theatre Australia and Pot-Pourri).

Nancy and I enjoyed another two weeks exploring a very small part of the country. We had some terrific wines tours in the Yarra Valley (both food and wine). We spent time walking and touring Sydney, and drove up and down the Sunshine Coast, stopping whenever and wherever we wanted. We agreed that we had only

scratched the surface, and "need" to come back and explore some more. It was a great trip with lots of memories and many new friends.

Thanks for the opportunity to contribute to the ANZ newsletter.

Alf



2005 ITE AM&E: The ITE 75<sup>th</sup> Anniversary Dinner at the Melbourne Convention Centre

### FROM THE MEDIA

#### FIBS in Transport Planning

This article from "Traffic & Parking" magazine issue 1, 2005 (presumably written by the editor of the magazine as no author is cited) was submitted by Mark O'Brien (Melbourne).



"FIBS in Transport Planning" identifies and discusses the following "fibs" in transportation planning within the professional but also in the minds of the public and of politicians:

- Better public transport will solve traffic congestion
- Improved major roads will result in less traffic congestion
- Traffic congestion is throttling the city
- We should take on the examples set by European cities
- Government levies and taxes on CBD parking will reduce traffic congestion
- Arterial roads are at capacity
- Traffic congestion has become intolerable
- We need to get people out of their cars and into public transport during peak hours

The discussion contained in this article is quite insightful and, whether you agree with each point or not, it provides a very entertaining read.

### The High Cost of Free Parking ...

### ... And the Havoc It Wreaks on American Cities

By Donald Shoup of ITS Los Angeles



2005 ITE AM&E: Well-attended individual technical sessions

The premise of a new book written by UCLA professor Donald Shoup is that although drivers currently park free on 99 percent of their trips and their cars are parked 95 percent of the time but that "free" parking isn't really free.

Shoup, an urban economist and professor of urban planning at UCLA, estimates that in 2002 between \$127 and \$374 billion a year was spent nationally to subsidize off-street parking—as much as the U.S. spent on Medicare or national defense that year.

Shoup especially criticizes free or cheap curbside parking, which he says, "may be the most costly subsidy American cities provide to their citizens."

It encourages drivers to cruise for street spaces, polluting the air and creating congestion. Once drivers find a cheap curbside spot they tend to occupy it longer than they would if they were paying to park. A 1984 study of a 15-block area near UCLA showed that cruisers drove the equivalent of two roundtrips to the moon while looking for curbside parking over a one-year period.

They spent 100,000 hours, consumed 47,000 gallons of gasoline and produced 700 tons of carbon dioxide emissions. Not only is free parking expensive, it's often ugly, and it encourages people to drive instead of taking buses, subways, or walking, he says

Shoup indicates that the approach to free parking provision is not uniform within the United States with Los Angeles requiring as a minimum 50 times more parking spaces than San Francisco allows as the maximum." Shoup argues that planners receive almost no training in how to set parking requirements, often looking to neighboring communities for guidance. Worse, American planners estimate how many parking spaces every land use needs to meet the peak demand for free parking, not how many spaces drivers will demand at a price that covers the cost of the spaces. Most commercial buildings are required to provide a parking lot bigger than the building itself; a restaurant typically requires a parking area three times the size of the eating establishment.



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Excessive parking is one reason American cities are charmless compared to European cities. Americans require parking and limit density, while Europeans require density and limit parking, Shoup explains. Even San Francisco, the most "European" of US cities, would look very different if it had to be rebuilt with today's parking requirements.

### What to do?

Shoup suggests three reforms.

- The first is to remove requirements for off-street parking, which is often overbuilt and underutilized.
- The second is to charge enough for parking at the curb to create a 15 percent vacancy rate. That will encourage drivers to park in garages or not to drive at all. Those who choose to park at the curb will not have to cruise for a spot, but will find one readily, cutting down on congestion.
- Finally, the money collected from parking meters at the curb should be returned to the business or residential neighborhood for use in repairing sidewalks, planting trees, security or other street improvements."

"Parking," says Shoup, "is a blind spot in most studies of automobile transportation" and the "unstudied link between transportation and land use" in United States. With his book, Shoup attempts to shed light on the matter.

*This review was paraphrases a review from the ITS website sent in by Andrew Somers.*

To read the first chapter of The High Cost of Free Parking, [click here](#) (900K PDF). Go to [American Planning Association Web site](#) page for ordering information and reviews. For more information about the author see [Donald Shoup's Home Page](#).



2005 ITE AM&E: Entertainment at the ITE 75<sup>th</sup> Anniversary Dinner

### NZ SECTION

Andrew Edgar will be contacting Contact NZ for local contributions to the newsletter for upcoming editions, please feel free to send any contributions to either Andrew Edgar ([Andrew.Edgar@landtransport.govt.nz](mailto:Andrew.Edgar@landtransport.govt.nz)) or the editor ([mark@obrientraffic.com](mailto:mark@obrientraffic.com)).

### NEWS FROM N.S.W

Sigrid Sanderson is the newly co-opted board member from Sydney in New South Wales. Sigrid has indicated that there are a number of interesting developments occurring in NSW at the moment including:

- Growth Centres commissions that will be responsible for managing the complete infrastructure development needs of the 2 major growth corridors in Sydney and will, for the first time, take control of arterial road provision from the Roads & Traffic Authority.
- The recently merged Department of Infrastructure, Planning & Natural Resources has been split back into the new Department of Planning and the Department of Natural Resources.
- Planning legislation changes to reduce the complexity of community and intra-governmental consultation processes for major projects. It will be interesting to see if the recent changes will represent a more appropriate balance between action and consultation...

### ITE Monash University Industry Night

The ITE Industry Night at Monash University on Wednesday 5th October was well attended with over 30 students of various levels present. All speakers



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provided entertaining insights into their careers and working lives.

Congratulations go to organisers Robert Gibson, Krystle Long and Dr Majid Sarvi for their hard work in making the evening a success. ITEANZ would like to thank sponsors Hyder Consulting and speakers Derrick Hitchens, Prof. Bill Young, Emma Donnelly, Dan Przychodzki and Andrew Somers.

### NEWS FROM ITE DISTRICT 8

#### ITE POLICIES BEING REVISED

At the August 2, 2004 meeting of the Policy and Legislative Committee in Orlando, Florida, the Institute's policies were discussed. The committee felt that the majority of ITE members were not aware of the magnitude and scope of the policies. Before launching an effort to raise the membership's awareness, the committee initiated an effort to conduct a comprehensive review of ITE policies. A subcommittee was tasked to review the policies and provide editorial recommendations; identify language that may no longer be relevant; recommend additional language that would bring the policies up to current reference; and combine policies that may be redundant. The proposed revisions were approved to be published for comment in the *ITE Journal* by the International Board of Direction at its August 5-6, meeting in Melbourne, Australia.

Remember as an ITE member, these are your policies. Please take time to review the proposed changes. If you would like to view the current ITE policies in their entirety, go to [www.ite.org/aboutite/policies.pdf](http://www.ite.org/aboutite/policies.pdf). Please forward your comments to Heather L. Talbert, [htalbert@ite.org](mailto:htalbert@ite.org) by January 6, 2005

#### ITE INTRODUCES MEMBER BENEFITS

Membership renewals are simplified from next year with one free Council membership now included in the membership fee. For information on ITE Councils and how they benefit you, visit [www.ite.org](http://www.ite.org).

#### COULDN'T GET TO THE ITE 2005 ANNUAL MEETING & EXHIBIT?

Or couldn't get to every session (an impossible task!)? Then visit [www.ite.org](http://www.ite.org) and download the presentations you missed.

#### NEW ZEALAND ROAD SAFETY AUDIT POLICY & PROCEDURES

New Zealand has adopted a new policy for road safety audits and issued a revised road safety audit procedures guideline. The new policy became effective on July 1, 2004. Transfund, New Zealand's funding agency, requires that all projects be submitted to a

road safety audit. The project manager can choose not to commission a safety audit but has to document the reasons and sign a declaration. Further details of the policy can be found at [www.landtransport.govt.nz/pubs/GC04-05.doc](http://www.landtransport.govt.nz/pubs/GC04-05.doc)

In November 2004, Transfund issued its revised "Road Safety Procedures for the Projects" guideline. The document is available electronically at [www.landtransport.govt.nz/man.html#tfm9](http://www.landtransport.govt.nz/man.html#tfm9). Bound copies are available from Ian Appleton at [ian.appleton@landtransport.govt.nz](mailto:ian.appleton@landtransport.govt.nz). In addition, on December 1, 2004, Transfund combined with the Land Transport Safety Authority to create Land Transport New Zealand.

#### ITE SAFETY COUNCIL ANNOUNCES NEW PROJECTS

The ITE Transportation Safety Council is pleased to announce a new project entitled Enhancing Intersection Safety Through Roundabouts. Volunteers are welcome to participate. The initial meeting of this committee was held at the National Roundabout Conference in Vail, Colorado on Sunday, May 22, 2005.

The primary purposes of this ITE project will be to promote the safety benefits of modern roundabouts and to identify design practices and features that enhance safety at roundabouts. Discussions to date



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have determined the primary product will most likely be an informational report that explores available research regarding the safety benefits of roundabouts, including international experience and a summary of available information regarding design features and traffic control devices that further enhance safety at roundabouts. Additional products could include technical sessions, seminars and articles for upcoming ITE meetings and publications. The proposed products will be determined as part of the committee's work efforts.

The committee will attempt to avoid duplication of effort by building on results and products from NCHRP 3-65. Given the small amount of ITE funds available for this mostly volunteer effort, this project will largely serve to disseminate information generated from NCHRP through ITE. Richard Retting and Gene Russell are committee co-chairs.

### "E" YOU SOON

Have you had difficulty funding travel to the latest ITE event, regardless of whether it's in Melbourne or your local CBD? Is your meeting schedule too tight to justify a full day of conference activities? Perhaps even traffic congestion influences your decision to head to that dinner meeting! Sharing technical ideas and concerns with your colleagues is an invaluable part of the transportation profession, yet budgeting time and resources for meeting attendance is a challenge

common to both public agencies and private sector firms.

One tool to address the challenge is electronic communication. The Transportation Planning Council has established a task force on electronic communications to develop and promote member communication through digital media. The task force includes Dan Hardy, Danny Pleasant and Phil Winters of the TPC and Ed Stollof with ITE.

We are working on the new initiatives to increase the ability of TPC members to collaborate through electronic media, increased promotion of the TPC discussion group, and an online TPC meeting or "webinar".

### ITE VIRTUAL COMMUNITIES

Each ITE Council has its own electronic discussion group, also commonly described as a "listserv." As indicated on the ITE Web Site, these e-mail discussion groups are virtual communities where transportation professionals can exchange information on subjects of interest. Discussion groups provide a quick, easy and convenient way to share and receive information in a variety of specialty areas. Many subscribers use discussion groups as a first step to identify the current state of the art in a particular area before they begin a project. Information on joining the discussion group for

each council is at the following link:  
[www.ite.org/listservs/index.asp](http://www.ite.org/listservs/index.asp).

### ITE EDUCATION COUNCIL RE-DEFINES ITSELF

During the past 6 months, the Education Council's Executive Committee has worked to redefine, or really "define," the council's vision, mission and strategy. The results of this activity, in the form of a draft vision, mission and strategy statement, are available at [www.ite.org](http://www.ite.org). The proposed statement is prefaced by: (1) a description of the motivating factors, (2) a description of the redefining process and (3) justification for any of the proposed changes. This document is currently under review by ITE. If you have any questions, comments, or concerns, please forward them to Jodi Carson at [j-carson@tamu.edu](mailto:j-carson@tamu.edu).

### INTERNATIONAL BOARD MEETS IN OCTOBER

ITE's International Board of Direction (IBoD) meets in Washington from October 27-30. This will be the last meeting for the year (IBoD meets in March and August, and October). Look out for a report in the next ITEANZ Newsletter.

ITEANZ forms part of District 8 in the ITE world, which comprises members from outside Canada and the United States. Peter Daly is the International Director



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for District 8. Peter can be contacted at [peter\\_daly@racv.com.au](mailto:peter_daly@racv.com.au).

### DISTRICT 8 ADVISORY COMMITTEE

The inaugural meeting of the District 8 Advisory Committee was held in Melbourne in August 2005. The role of the committee is to assist and advise the District 8 Director (currently Peter Daly) on issues within the district. Membership of the committee includes ITE members from Australia, New Zealand, Hong Kong, Argentina, Sweden, Peru, South Africa, and Mexico.



2005 ITE AM&E: "Old Boardies" Dinner at Kooyong Tennis Club

### UPCOMING ITE EVENTS

#### MELBOURNE, AUSTRALIA

##### October ITEANZ Seminar

**Topic:** London's M25 Motorway Ring Road: Managing Demand – No more Predict and Provide

**Date:** Thursday 20th October, 2005

**Location:** Department of Infrastructure Theatre  
Level 29 Nauru House, Melbourne

**Time:** Refreshments from 4:45pm, Seminar 5:15pm - 6:30 pm

**Speaker:** John Spiers (Global Director of Transportation – Hyder Consulting)

##### October EA (Victoria) Seminar

**Topic:** European Road Pricing

**Date:** Wednesday 26th October, 2005

**Location:** Engineers Australia, Engineering House  
Level 2, 21 Bedford Street, North Melbourne

**Time:** light refreshments from 12:00 PM  
12:30pm - 1:30 pm

**Speaker:** Ken Perret (Technical Director – RAPP TRANS UK)

##### November ITEANZ Seminar

**Topic:** Transport & Traffic for the Melbourne 2006 Commonwealth Games

**Date:** Wednesday 23<sup>rd</sup> November, 2005

**Location:** Department of Infrastructure Theatre  
Level 29 Nauru House, Melbourne

**Time:** Refreshments from 4:45pm, Seminar 5:15pm - 6:30 pm

The details of speaker(s) to be provided in the next issue.

##### November ARRB Workshop

**Topic:** Road & Public Space Lighting

**Date:** 15-17 November, 2005

**Location:** Bayview on the Park Hotel  
52 Queens Road, Melbourne

##### **Speakers:**

Dr Alec Fisher

John Rogers (Alstrom Australia)

See attached flyer for further details.



### December – ITEANZ President's Dinner

Details in next issue.

### December ARRB Workshop

**Topic:** Sustainable Transport Planning

**Date:** 6-8 December 2005

**Location:** ARRB

500 Burwood Highway, Vermont South

**Speakers:**

Peter Johnstone

Ian Ker

See attached flyer for further details.

### **BENDIGO, AUSTRALIA**

### November Heritage Tour

**Topic:** Bendigo Engineering Heritage Tour

**Date:** Saturday 19 November, 2005 and Sunday 20 November, 2005

**Location:** Bendigo, Victoria

See attached flyer for details.

### **PERTH, AUSTRALIA**

### October ARRB Workshop

**Topic:** Road & Public Space Lighting

**Date:** 18-20 October, 2005

**Location:** Novotel Langley Hotel

221 Adelaide Terrace, Perth

**Speakers:**

Dr Alec Fisher

John Rogers (Alstrom Australia)

See attached flyer for further details.

### November ARRB Workshop

**Topic:** Sustainable Transport Planning

**Date:** 28-30 November 2005

**Location:** Novotel Langley Hotel

221 Adelaide Terrace, Perth

**Speakers:**

Peter Johnstone

Ian Ker

See attached flyer for further details.

### **BRISBANE, AUSTRALIA**

### December ARRB Workshop

**Topic:** Road & Public Space Lighting

**Date:** 6-8 December, 2005

**Location:** The Chifley at Lennox

66 Queen Street, Brisbane

**Speakers:**

Dr Alec Fisher

John Rogers (Alstrom Australia)

See attached flyer for further details.

### **NEW PRODUCTS FOR TRANSPORTATION PROFESSIONALS**

This is a new section that will provide an opportunity for companies that provide services to Transportation Professionals to inform ITE members of new products and updates to old products that are used in day-to-day practice. If you have encountered any products in your day-to-day work that have made your task a little easier please contact Mark O'Brien ([mark@obrientraffic.com](mailto:mark@obrientraffic.com)) with a brief description of what the product is, how it helped you, and the type of work for which it is suitable.



### ITEANZ MEMBER EDUCATIONAL ACHIEVEMENTS

If you are a member of ITEANZ and have recently completed a course of more than 12 months duration, please email Mark O'Brien ([mark@obrientraffic.com](mailto:mark@obrientraffic.com)) to have your achievement acknowledged in this publication. Please include "ITEANZ Educational Achievements" in the subject heading of the email to ensure easy processing as well as the title of the course, its duration, and the institution from which it was obtained.

### ITEANZ BIRTHS, DEATHS & MARRIAGES

#### Marriages

- Mark O'Brien (joined ITE 2000) and Emma Donnelly (joined ITE 2002) were married in Melbourne on August 13.

Please send your news to Mark O'Brien ([mark@obrientraffic.com](mailto:mark@obrientraffic.com)) and include "Births, Deaths, & Marriages" in the heading.

### ITEANZ MEMBER MOVEMENTS

If you are a member of ITEANZ and have recently moved positions, companies, or locations and would like to make your fellow ITEANZ members aware of it, please update your contact details at [www.ite.org](http://www.ite.org).

### ITEANZ SPONSORS

The Board of the ITEANZ would like to thank our sponsors from 2005 including:

- VicRoads
- Royal Automobile Club of Victoria (RACV)
- The Transport Accident Commission;
- The Victorian Department of Infrastructure;
- Barrier Systems, Inc;
- ARRB Group;
- Akcelik & Associates Pty Ltd;
- ML Traffic Engineers;
- Traffix Transport Consultants;
- Music Theatre Australia; and
- Andrew O'Brien & Associates Pty Ltd
- Hyder Consulting



# WORKSHOP

## Sustainable transport planning

**Perth**  
**28-30 November 2005**

**Melbourne**  
**6-8 December 2005**

ARRB is pleased to offer a three day intensive professional development workshop on state-of-the-art sustainable transport planning. The workshop has a one day option that will focus on the principles, goals and objectives of sustainable transport and land use planning, and is designed for managers who need a quick overview of the principles and issues. The full program will provide participants with a toolbox for achieving outcomes.

### Workshop purpose

- To familiarise practitioners with current best practice in sustainable transport management
- To present the recent research and successful implementation projects on sustainable transport options
- To provide hands-on experience applying the principles and best practices for land use and transport integration within a local community
- To understand traffic management, traffic calming, and travel behaviour change principles
- To help practitioners accelerate understanding and use of the ARRB toolbox and methodologies relating to successful sustainable transport planning solutions.

### Workshop endorsed by:



AUSTRALIAN INSTITUTE  
OF TRAFFIC PLANNING  
AND MANAGEMENT  
INCORPORATED



## Workshop content

1. Objectives & principles of sustainable transport planning, integrated transport & land use planning, and travel demand management
2. Land use and the transport nexus
3. Traffic management & traffic calming
4. Safety & equity
5. Travel behaviour change
6. Innovative travel management programs
7. Bicycling & bikeability
8. Walking & walkability
9. Parking strategy & management
10. Freight transport and servicing the city
11. Evaluating & deciding between choices
12. Integration of disparate transport elements
13. Making it happen through collaboration and partnerships
14. Consultation and participation

## Workshop outline

The ARRB Group is pleased to be able to present a three-day professional development workshop on the latest practices applying to sustainable transport planning.

This workshop is based on the extensive research and consulting work undertaken by ARRB in recent years and the various studies and guides issued by Austroads. The workshop is offered in two parts: a one day overview for managers and planners who require a concentrated review of principles, goals and objectives of sustainable transport and land use planning; and, a further two days that builds upon the overview with numerous exercises and case studies that will assist practitioners in applying best practice solutions.

All participants will be provided with a copy of workshop and speakers' notes. This documentation will be a useful technical resource for all transport planning and engineering practitioners who have exposure to sustainable transport planning.

There are Austroads guides on this topic that complement the course material. These guides are available to Austroads Members as free downloadable PDF documents or as printed and bound documents from SAI Global.

## Who should attend?

- Land use and transport planners with planning, engineering and urban design backgrounds
- Local government engineers, planners and infrastructure managers
- Consulting engineers and practitioners working on sustainable transport planning, travel demand management and integrated transport planning
- All traffic management and local road practitioners
- Engineers requiring specialist training in land use planning
- Traffic management consultants
- State road authority staff who work on land use and transport planning issues
- Engineering graduates looking for specialist skills for career development

## Endorsements

This course is endorsed by the following professional groups:

**Institution of Engineers, Australia** (IEAust): These courses are recognised by ENGINEERS AUSTRALIA for Continuing Professional Development (CPD) purposes.

**Institute of Transportation Engineers**, Inc (ANZ section)

**Australian Local Government Association** (ALGA)

**Australian Institute of Traffic Planning and Management** Inc (AITPM)

## The presenters

### Peter Johnstone

Peter is a Principal Transport Planner for ARRB Group in Western Australia. He has extensive experience in transport policy development, strategic transport studies, integrated, multi-modal transport planning, public transport planning, bicycle & pedestrian planning, transport – land use integration, and vehicle parking strategy.

Some of Peter's major projects include the Central Perth Parking Policy; formulation of an integrated Central Perth Access Plan; the concept plan for Perth's Central Area Transit (CAT) system; an Integrated Transport Strategy for Local Government in Adelaide, and a multi-modal access plan for the University of WA and the Queen Elizabeth II Medical Centre precinct.

Peter holds a Bachelor's Degree in Geography and Urban Policy and has significant international experience in the fields of city-centre enhancement, public transport innovation, pedestrian and cyclist programs, and innovative programs for sustainable transport delivery.

### Ian Ker

Ian is a Principal Planner/Economist with ARRB Group and has over 35 years experience in transport planning, in the public and private sectors. Whilst with the Department of Transport (WA) he was Acting Director Metropolitan Policy, Director Policy and Planning, and most recently, Director of Integrated Policy in the Office of the Director General of Transport.

In these capacities, Ian led the development of the *Metropolitan Transport Strategy* for the Perth Metropolitan Region that established targets for a substantial shift from the existing and predicted future dependence on the private motor vehicle, to a more balanced and sustainable transport system. This led directly to the development and progressive implementation of *TravelSmart*, a suite of initiatives for voluntary travel behaviour change. Ian was centrally involved in all stages of the trialling and adoption of the individualised marketing approach to travel behaviour change in Perth, Western Australia.

Ian is also a local government councillor, and popular invited speaker on land use and transport planning issues.

## Course enquiries

[training@arrb.com.au](mailto:training@arrb.com.au) Ph: (03) 9881 1555

### Cancellation policy

If you are no longer able to attend this event a substitute attendee may take your place. However, if you wish to cancel your registration a full refund, minus a \$77 (inc GST) service fee, will be given provided you have notified us in writing, by email, letter or fax, at least 10 days before the start of the conference. No refund is available for cancellations under 10 days.

**ARRB's Statement on Privacy** – ARRB holds names and addresses of people with an interest in transport so that it can communicate with them. Personal information which you provide to ARRB may be held for normal commercial purposes such as invoicing. Sometimes your name and address details may be obtained from, or made available to other organisations both nationally and internationally in order to tell you about information, services or products in the transport area. If you do not wish us to hold your details, please write to The Information Officer, ARRB Group, 500 Burwood Highway, Vermont South, VIC 3133, or email on [info@arrb.com.au](mailto:info@arrb.com.au).

## Program

### Subject to change

| Time    | Day 1: Principles goals & objectives  | Time    | Day 2: Examples of good practice, case studies & exercises   |
|---------|---|---------|--|
| 8:30am  | Tea and coffee on arrival & registration<br>Networking opportunity for delegates  | 8:30am  | Tea and coffee   |
| 9.00am  | <ul style="list-style-type: none"> <li>• Introduction</li> <li>• Objectives &amp; principles</li> <li>• Land use &amp; transport nexus</li> <li>• Traffic management &amp; traffic calming</li> </ul>                       | 9.00am  | Review of Day 1 learnings and outcomes<br><u>Land use &amp; transport</u> <ul style="list-style-type: none"> <li>• Land use &amp; accessibility</li> <li>• Liveable neighbourhoods</li> <li>• Transit orientated development</li> <li>• Smart growth</li> </ul>  |
| 10.45am | Morning tea break   | 10:15am | Morning tea break  |
| 11.00am | <ul style="list-style-type: none"> <li>• Safety &amp; equity</li> <li>• Travel behaviour change</li> <li>• Innovative travel management programs</li> </ul>   | 10:30am | <u>Traffic management &amp; traffic calming</u> <ul style="list-style-type: none"> <li>• Street function</li> <li>• Balancing traffic &amp; people</li> <li>• Local &amp; through traffic</li> <li>• Balancing conflicts</li> </ul> <u>Safety &amp; equity</u> <ul style="list-style-type: none"> <li>• Making the community a safer place</li> <li>• Overcoming transport disadvantage</li> </ul> |
| 12:30pm | Lunch break (lunch provided)  | 12:30pm | Lunch Break (lunch provided)   |
| 1.30pm  | <ul style="list-style-type: none"> <li>• Bicycling &amp; “bikeability”</li> <li>• Walking &amp; “walkability”</li> <li>• Parking strategy &amp; management</li> <li>• Freight transport &amp; servicing the city</li> </ul> | 1:30pm  | <u>Travel behaviour change</u> <ul style="list-style-type: none"> <li>• TravelSmart</li> <li>• Individualised marketing</li> </ul> <u>Innovative travel management programs</u> <ul style="list-style-type: none"> <li>• ECO-Pass &amp; U-Pass programs</li> <li>• Employer based initiatives</li> <li>• Community &amp; education based programs</li> </ul>                                       |
| 3.30pm  | Afternoon tea break   | 3.00pm  | Afternoon tea break  |
| 3.45pm  | <ul style="list-style-type: none"> <li>• Evaluating &amp; deciding</li> <li>• Integration &amp; synthesis</li> <li>• Resources &amp; partnerships</li> <li>• Consultation &amp; participation</li> </ul>                    | 4.00pm  | Practical workshop exercise to combine and apply principles and best practices to formulate a sustainable accessibility scheme for a local region  |
| 5:15pm  | Depart  | 5.00pm  | Depart   |

| Day 3   |   |
|---------|---|
| 9.00am  | Enhancing the cycling and walking environments to promote accessibility   |
| 10.30am | Morning tea break   |
| 10:45am | Parking supply, pricing and targets for sustainability<br><br>Freight: balancing competing needs for regional economic efficiency |
| 12:30pm | Lunch break (lunch provided)  |
| 1.30pm  | Making choices & bringing it together – group discussion  |
| 3.30pm  | Afternoon tea break   |
| 3.45    | Making it happen & promoting community – followed by group discussion   |
| 5.15    | Workshop review & closure   |

### How to get there

#### Perth:

The workshop is being held at the Novotel Langley Hotel, 221 Adelaide Terrace, Perth (Riverside North function room). This is a central CBD location serviced by major bus routes.

#### Melbourne

The workshop will be held in ARRB’s auditorium at 500 Burwood Highway, Vermont South. The venue is opposite the Vermont South Shopping Centre, where the Route 75 tram and Route 732 Knox Transit Link bus meet in a new DDA compliant interchange. Bus routes 736 and 742 also pass the site.

Complete and fax to our training registration desk: 03 9886 3076

Registration form

Tax invoice

ABN 68 004 620 651



## SUSTAINABLE TRANSPORT PLANNING WORKSHOP

A one day overview or three day intensive professional development training workshop on sustainable transport planning best practice

|   |  |
|---|--|
| <input type="checkbox"/> <b>Perth</b><br><b>The Novotel Langley Hotel</b><br><b>221 Adelaide Terrace, Perth</b><br><b>28 - 30 November 2005</b> | <input type="checkbox"/> <b>Melbourne</b><br><b>ARRB Auditorium</b><br><b>500 Burwood Hwy, Vermont Sth</b><br><b>6 - 8 December 2005</b> |
|---|--|

Separate registration form for each person please.

Name

\_\_\_\_\_

Position

Organisation

Postal address

Town

Postcode

Telephone

Fax

Special Dietary requirements:

e-mail:

**Registration fee (inclusive of GST):**

|  | Investment | Number | Total |
|--|------------|--------|-------|
| <b>1 day overview workshop</b>             | \$550      |        |       |
| <b>3 day workshop – one delegate</b>       | \$1320     |        |       |
| <b>Discount for 3 or more delegates pp</b> | \$1210     |        |       |
|  |            |        | \$    |

Method of payment. Please tick

Cheque enclosed, payable to ARRB Group, 500 Burwood Highway, Vermont South, Vic. 3133

Charge my credit card

Master Card

BankCard

Visa

Amex

Card Number

|  |  |  |  |   |  |  |  |   |  |  |   |  |  |  |  |
|--|--|--|--|---|--|--|--|---|--|--|---|--|--|--|--|
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|--|--|--|--|---|--|--|--|---|--|--|---|--|--|--|--|

Valid until (mm/yy)

Amount to be debited AU\$

Card holder's name

Signature

**EFT Payments:** BSB 083 323 Acct No: 647968813 Bank: NAB Mt Waverley

**Please quote Job Ref No: FC71368**

Participants will receive registration confirmation by 20 November 2005. If you receive no confirmation by that date ring Lorraine on 03 9881 1680. **ARRB's Statement on Privacy** is on page 3 of this document or view on our website [www.arrb.com.au](http://www.arrb.com.au)

## ENGINEERING HERITAGE AUSTRALIA (VICTORIA)

### BENDIGO ENGINEERING HERITAGE TOUR

Dates: Saturday 19 November 2005 & Sunday 20 November 2005

The Engineering Heritage Group, in conjunction with the Bendigo Regional Group, invites you to participate in a weekend visit to experience first hand some of the significant engineering and industrial heritage sites in and around Bendigo.

On Saturday 19 November, a bus will be provided to take participants to a range of places of engineering heritage interest that are generally not readily or easily accessible. Local guides will be on hand to assist with interpretation and opportunity should also be available for discussion of on going issues, etc, at these sites. On the Saturday evening, an informal dinner function will enable EHV participants to mix with local Bendigo Group members and partners. It is also proposed to have an after dinner speaker to talk about some aspects of Bendigo's rich gold mining history and associated heritage.

On Sunday morning, for those who would like to participate, there will be a visit to the Central Deborah Mine involving a guided tour of the surface buildings and equipment and underground workings of this gold mine.

Afterwards, or alternatively, participants may wish to visit the Bendigo Pottery and/or take the opportunity to experience other features of historic Bendigo and district before returning home.

It is suggested that participants travel to Bendigo on Friday (18th) afternoon or evening (150km from Melbourne via the Calder Highway) and arrange for two nights at accommodation at a place of their own choice (and own cost). Alternatively, an early start could be made to arrive in Bendigo in time for the commencement of the bus tour on Saturday morning.

EHV will endeavour to facilitate a car pooling for travel to Bendigo. Members are requested to indicate their willingness to offer transport to others, or their interest in being a passenger, on the registration form.

#### Proposed Itinerary

**Saturday 19 Nov.** (Note that apart from the intended coach departure at 9:30am, other times are indicative only).

0915 hrs Meet at coach departure point in Bendigo (detail of location will be advised in due course to registered participants).

0930 hrs Travel together via the coach to Coliban No.7 Reservoir and (subsequently) Crusoe Reservoir to inspect these historic former elements of the early Bendigo water supply scheme, along with the remnants of the early water treatment plants. These facilities were designed by Joseph Brady in the 1860s during his term as engineer to then Bendigo Waterworks Company. The reservoirs were later supplied by a 70km Brady designed aqueduct from a government reservoir built on the Coliban River at Malmsbury. Formerly Coliban Water sites, the reservoirs and surrounds have recently been transferred to the City of Bendigo for public uses, preservation and interpretation.

1215 hrs BBQ lunch ? arranged by the Rotary Club of Kangaroo Flat ? at Victoria Hill Historic Mining Reserve with time for viewing at least a part of the reserve including poppet head, stamp battery and other remnants of the rich ? and deep ? mines that formerly operated in this area.

1330 hrs Visit to the former Bendigo gas works. This coal gas retort plant is still substantially intact and provides a good example of a type of gas works that was once common place in both metropolitan and many regional centres.

1430 hrs Inspect several of the John Monash designed bridges in the Bendigo area.

1530 hrs Visit the depot and workshops of the historic Bendigo Tramways, now operated by the Bendigo Trust.

1630 hrs Free time to look around downtown Bendigo, return to place of accommodation, etc.

1900 hrs Hors-d'oeuvre followed by two-course buffet style dinner at a private venue in Kangaroo Flat. (Hard and soft drinks will be available for purchase at bar).

2230 hrs Conclude evening function. (Visitors to Bendigo depart to own arranged accommodation).

### **Sunday 20<sup>th</sup>**

0930 hrs Group visit (for those who elect to participate) to the Central Deborah Mine Experience. This includes a guided tour of the surface facilities, including the still operational steam driven mine winder, and underground to one of the upper levels developed for public inspection. The Central Deborah mine, close to the middle of Bendigo, is a popular tourist site, however it is hoped that a guide(s) with particular in depth knowledge of plant and mining engineering aspects will be available for our visit. The visit to the Central Deborah Mine site including the tour is expected to take 2 ? 2.5 hours.

1200 hrs - Conclusion of the organised part of the Bendigo visit. The Bendigo Pottery could be a destination for lunch and to see the facilities and products of this still operating pottery, albeit that being tempted with some of the products may be a 'wealth hazard'!

People will of course be free to make other informal arrangements individually or with others to see more of Bendigo and environs into the afternoon.

(Information on general attractions, tours, walks, etc, could be made be available if desired).

### **Limitation on Young People**

All persons wishing to join the Tour should be at least 14 years of age. Due to Insurance and Legal considerations, no person under the age of 16 years will be permitted to join the Tour unless they are accompanied by a responsible adult and their participation is arranged at least 14 days in advance of the Tour commencement. Notwithstanding, EHV retains the right to refuse or at any time to terminate, the participation of any person under the age of 18 years, without giving further reason".

It will also be incumbent on all participants to obey the instructions of the tour guide, representative of host authority / corporation, etc.

### **Accommodation**

Accommodation in Bendigo will be at the cost of individual participants who will need to arrange and pay independently for their accommodation.

Bendigo has a wide range of hotels, motels and caravan parks with style and price to suit all tastes. Information is available on prices, quality ratings and facilities, etc, in the RACV Accommodation Guide or the Tourist Park Guide or their web on-line versions.

For convenience on the Friday evening and also for returning after the dinner function on the Saturday evening, accommodation in Kangaroo Flat located on the south (Melbourne) side of Greater Bendigo could have merit.

### **Cost**

The cost per person for the Saturday tour, including lunch and the evening meal is \$35. Cheques or money orders accompanying registrations should be made payable to Engineers Australia, Victoria Division.

The Central Deborah Mine tour on Sunday morning, will cost \$20 per person. This is payable at the mine on the start of the tour.

**REGISTRATION IS NECESSARY - ONLY A LIMITED NUMBER CAN BE ACCOMMODATED - REGISTER BY 27 OCTOBER 2005.** Please obtain a registration form from the people identified below and forward the completed form together with your cheque or money order made out to Engineers Australia Victoria Division to:

Dr B C S Harper  
62 Relowe Cres  
Mont Albert North 3129

Places will be filled in order of receipt of registrations accompanied by the appropriate payment.

**Queries? More information:**

Don Bartlett (EHV Chaiman) Tel. 9725 6299 Email [donb@consuleng.com.au](mailto:donb@consuleng.com.au)

Miles Pierce (EHV Deputy Chairman) Tel. 9890 8319 Email  
<[milwen@ozemail.com.au](mailto:milwen@ozemail.com.au)>

Brian Harper (EHV Program Coordinator) Tel.  
9890 5834  
Email [b-harper@netspace.net.au](mailto:b-harper@netspace.net.au)



Members and non-members are invited to a free lunchtime seminar on

## EUROPEAN ROAD PRICING

The presentation will cover the emerging road pricing schemes in Europe. While electronic free flow tolling is well established for specific road assets in many European countries, emphasis has shifted to more comprehensive road pricing. Apart from the London congestion charging scheme, emerging road pricing schemes across Europe have focussed on heavy goods vehicles (HGVs). Switzerland, Austria and Germany have already introduced national charging schemes for HGVs. France is planning to extend the current national non-stop electronic payment service to HGVs. Belgium, the Czech and the Slovak Republic are also developing HGV charging policies while the UK's HGV scheme has been merged into a national vehicle charging scheme now under development.

PRESENTED BY

### **KEN PERRET**

Technical Director, RAPP TRANS UK

Ken Perrett has advised on the impacts of major UK transport policies, such as those on Light Rail, Bus Deregulation, Congestion and HGV charging. His key area of expertise is in the procedural, contractual, legal and operational aspects of road pricing schemes and on interoperability issues. **Rapp Trans UK** is a subsidiary of Rapp Trans AG, the largest independent consultancy for Electronic Fee Collection (EFC) Systems in Europe. Rapp Trans has been involved in most of the recent European road pricing schemes. In Australia, Rapp Trans has worked with the **ARRB Group** on the development of technical specifications and testing protocols for the Austroads Intelligent Access Program.

WEDNESDAY 26<sup>th</sup> OCTOBER 2005

12.30 PM TO 1.30 PM

LIGHT LUNCHTIME REFRESHMENTS FROM 12.00 PM

RSVP by e-mail to [judy.gathercole@arrb.com.au](mailto:judy.gathercole@arrb.com.au) by Friday 21st October. Please indicate whether you will require a light lunch.

### **NEW VENUE**

**Engineers Australia, Engineering House**

**Level 2, 21 Bedford Street, North Melbourne**

(Location map at <http://www.vic.ieaust.org.au/about/location.html>)

Attendance at this meeting enables you to claim one hour towards the continuing professional development (CPD) requirements of EA.

[www.transportbranch.org](http://www.transportbranch.org)

# WORKSHOP

## Road and public space lighting

**PERTH**  
**18 - 20 October 2005**

ARRB, on behalf of Austroads is pleased to offer a three day intensive training workshop based on the new Australian Standard 1158 and the Austroads Guide to Traffic Engineering Practice Part 12: Roadway Lighting

### Workshop purpose

- To familiarise people with current best practice in road and public space lighting design and practice
- To present the background material underpinning the new revision of the Austroads Guide to Traffic Engineering Practice on road lighting
- To obtain hands on experience solving actual problems presented in the form of structured exercises using Perfect Lite software
- To help you accelerate your understanding and use of Australian Standard AS 1158

### Workshop endorsed by:



Australian  
Local  
Government  
Association



AUSTRALIAN INSTITUTE  
OF TRAFFIC PLANNING  
AND MANAGEMENT  
INCORPORATED



## Workshop content

1. Public lighting: A community service
2. Basics of light and Lighting – Concepts, terminology and units
3. Principles of road and public space lighting design
4. Road Lighting as a performance based standard
5. Principals of Computer Aided Lighting Design
6. Selection and design of lighting
7. Vehicle Route Lighting
8. Pedestrian Lighting
9. Luminaire Photometry
10. Lamp & Luminaire circuits
11. Maintenance of lighting systems

## Workshop outline

The ARRB Group in association with Austroads is pleased to be able to present a three-day workshop on the latest practices applying to road and public space lighting design and practice.

This workshop is based on the Australian Standard AS1158 and associated lighting standards. The supplemental Austroads Guide to Traffic Engineering Practice Part 12: Roadway Lighting is an additional general guide to road lighting standards and practice applicable to traffic routes and to a lesser extent, to local collector and minor roads. The Guide provides a brief introduction to the theory and basic principles involved in lighting design, along with a more detailed coverage of roadway lighting practices generally. The workshop provides instruction on the basic principles and extends this instruction to lighting design from first principles for roads to other public spaces.

The design and provision of public lighting is often arranged separately from other road improvements. It is therefore important for its design, installation and maintenance to be properly integrated with road design and traffic management practices to enhance the full achievement of traffic and community objectives.

All participants will be provided with a copy of workshop and speakers' notes. This documentation will be a useful technical resource for all traffic engineering and planning practitioners that have exposure to road and public space lighting design. Participants will also need their own copy of the new Australian Standard AS/NZS 1158, a calculator, a 1:500 scale, pencil and eraser. The Austroads guide which is available to Austroads Members as a free downloadable PDF document or as a printed and bound document available from SAI Global is optional. Hard copies of this guide can also be purchased with this workshop registration.

## Who should attend?

- All traffic management and local road practitioners
- Electricity distributors responsible for road lighting design, installation and maintenance
- Road design, road safety and traffic management consultants
- Engineers requiring specialist training in Lighting design
- Local Government engineers, planners and infrastructure managers
- State Road Authority staff who deal in road safety and traffic engineering
- Consulting engineers responsible for road and public space lighting projects
- Engineering graduates looking for specialist skills for career development

### Workshop size limited

This workshop has remaining vacancies for only 15 trainees so it is advisable that you register quickly to avoid disappointment.

### Endorsements

This course is endorsed by the following professional groups:

**Institution of Engineers, Australia (IEAust):** These courses are recognised by ENGINEERS AUSTRALIA for Continuing Professional Development (CPD) purposes.

**Institute of Transportation Engineers, Inc (ANZ section)**

**Australian Local Government Association (ALGA)**

**Australian Institute of Traffic Planning and Management Inc (AITPM)**

### The presenters:

**Dr Alec Fisher:** Alec has a long association with lighting research and was past chairman of the CIE Road Lighting Committee. He was an Engineering faculty member of the University of NSW for many years. He is currently chairman of Standards Australia Road Lighting Committee LG/2 and works in private consulting.

**John Rogers:** John is a Lighting Engineering Consultant at ALSTROM Australia. He is a long standing member of Standards Australia Committee LG/2 and a contributor to the Austroads Guide to Traffic Engineering Practice part 12: Roadway Lighting. John previously worked as Technical Manager at GEC Lighting and Rexel Lighting.

### Course enquiries

[training@arrb.com.au](mailto:training@arrb.com.au) Ph: 03 9881 1555

### Cancellation policy

If you are no longer able to attend this event a substitute attendee may take your place. However, if you wish to cancel your registration a full refund, minus a \$77 (inc GST) service fee, will be given provided you have notified us in writing, by email, letter or fax, at least 10 days before the start of the conference. No refund is available for cancellations under 10 days.

**ARRB's Statement on Privacy** – ARRB holds names and addresses of people with an interest in transport so that it can communicate with them. Personal information which you provide to ARRB may be held for normal commercial purposes such as invoicing. Sometimes your name and address details may be obtained from, or made available to other organisations both nationally and internationally in order to tell you about information, services or products in the transport area. If you do not wish us to hold your details, please write to The Information Officer, ARRB Group, 500 Burwood Highway, Vermont South, VIC 3133, or email on [info@arrb.com.au](mailto:info@arrb.com.au).

## Program

**Subject to change**

| Time    | Day 1  | Time      | Day 2  |
|---------|--|-----------|--|
| 8:30am  | Tea and Coffee on Arrival & Registration<br>Networking Opportunity for Delegates   | 8.30am    | Tea and Coffee<br>Review of Day 1 Learnings and Outcomes   |
| 9.00am  | <ul style="list-style-type: none"> <li>• Introduction</li> <li>• Public Lighting</li> <li>• Basics of Light &amp; Lighting</li> </ul>  | 9.00am    | <ul style="list-style-type: none"> <li>• In principal design exercise</li> </ul>                           |
| 10.45am | Morning Tea Break  | 10:15am   | Morning Tea Break  |
| 11.00am | <ul style="list-style-type: none"> <li>• Introduction to AS/NZS 1158 series</li> <li>• Performance based standard</li> <li>• Lighting for Vehicles</li> <li>• Lighting for pedestrians</li> </ul>  | 10:30am   | <ul style="list-style-type: none"> <li>• Computer aided design exercise</li> <li>• Step by step</li> </ul> |
| 12:30pm | Lunch Break (lunch provided)   | 12:30pm   | Lunch Break (lunch provided)   |
| 1.30pm  | <ul style="list-style-type: none"> <li>• Category V vehicle route lighting</li> </ul>  | 1:30pm    | <ul style="list-style-type: none"> <li>• Design exercise continued</li> </ul>                              |
| 3.30pm  | Afternoon Tea Break  | 3.00pm    | Afternoon Tea Break  |
| 3.45pm  | <ul style="list-style-type: none"> <li>• Category P pedestrian lighting</li> </ul>   | 3.15pm    | <ul style="list-style-type: none"> <li>• Design exercise continued</li> </ul>                              |
| 5:15pm  | Depart   | 5.00pm    | Depart   |
|         |  | 6.00pm    | Dinner at Novotel Langley hotel  |
|         |  | 7.30-9.30 | Lighting installation tour   |
|         | <b>Day 3</b>   |           |  |
| 8:30am  | <ul style="list-style-type: none"> <li>• Computer aided design exercise continued</li> </ul>   |           |  |
| 10.30am | Morning Tea Break  |           |  |
| 10:45am | <ul style="list-style-type: none"> <li>• Discussion on designs</li> </ul>  |           |  |
| 12:30pm | Lunch Break (lunch provided)   |           |  |
| 1.30pm  | Road lighting Hardware <ul style="list-style-type: none"> <li>• Luminaire Photometry</li> <li>• AS/NZS 60598 Luminaire standards</li> <li>• Lamp &amp; luminaire circuits</li> <li>• Maintenance factor in road lighting design</li> <li>• Conclusion</li> </ul> |           |  |
| 3.45pm  | Afternoon Tea Break<br>Workshop Finish   |           |  |

Complete and fax to our training registration desk: 03 9886 3076

Registration form

Tax invoice  
ABN 68 004 620 651



## ROAD & PUBLIC SPACE LIGHTING WORKSHOP

A three day training workshop on the Australian Standard A/NZS 1158 and the Austroads Guide to Traffic Engineering Practice: Roadway Lighting  
Book early only 15 spaces available.

**PERTH 18 - 20 October 2005**

**Novotel Langley Hotel,  
221 Adelaide Terrace, Perth**

Separate registration form for each person please.

Name

\_\_\_\_\_

Position

Organization

Postal Address

Town

Post Code

Telephone

Fax

e-mail:

### Registration Fee (inclusive of GST):

|   | Seminar | Number | Total |
|---|---------|--------|-------|
| 3 day Workshop – one delegate           | \$1540  |        |       |
| Discount for 3 or more delegates pp     | \$1485  |        |       |
| Purchase of Austroads Guide (hard copy) | \$33    |        |       |
|   |         |        | \$    |

Method of Payment Please tick

Cheque enclosed, payable to ARRB Group, 500 Burwood Highway, Vermont South, Vic. 3133

Charge my credit card

Master Card

BankCard

Visa

Amex

Card Number

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

Valid until (mm/yy)

Amount to be debited AU\$

Card holder's name

Signature

**EFT Payments:** BSB 083 323 Acct No: 647968813 Bank: NAB Mt Waverley

**Please quote Job Ref No: FC71721** & forward remittance advice with registration form

Participants will receive registration confirmation by 11 October 2005. If you receive no confirmation by that date ring Lorraine on 03 9881 1680.

**ARRB's Statement on Privacy** see Page 3 of this document or view on our website [www.arrb.com.au](http://www.arrb.com.au)

# WORKSHOP

## Road and public space lighting

**MELBOURNE**  
**15 - 17 November 2005**

ARRB, on behalf of Austroads is pleased to offer a three day intensive training workshop based on the new Australian Standard 1158 and the Austroads Guide to Traffic Engineering Practice Part 12: Roadway Lighting

### Workshop purpose

- To familiarise people with current best practice in road and public space lighting design and practice
- To present the background material underpinning the new revision of the Austroads Guide to Traffic Engineering Practice on road lighting
- To obtain hands on experience solving actual problems presented in the form of structured exercises using Perfect Lite software
- To help you accelerate your understanding and use of new Australian Standard AS 1158

### Workshop endorsed by:



Australian  
Local  
Government  
Association



AUSTRALIAN INSTITUTE  
OF TRAFFIC PLANNING  
AND MANAGEMENT  
INCORPORATED



## Workshop content

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2. Basics of light and Lighting – Concepts, terminology and units
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### Workshop size limited

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## Program

**Subject to change**

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| 9.00am      | <ul style="list-style-type: none"> <li>• Introduction</li> <li>• Public Lighting</li> <li>• Basics of Light &amp; Lighting</li> </ul>  | 9.00am      | <ul style="list-style-type: none"> <li>• In principal design exercise</li> </ul>                           |
| 10.45am     | Morning Tea Break  | 10:15am     | Morning Tea Break  |
| 11.00am     | <ul style="list-style-type: none"> <li>• Basics of Light &amp; Lighting contd</li> <li>• Introduction to AS/NZS 1158 series</li> <li>• Performance based standard</li> <li>• Lighting for Vehicles</li> <li>• Lighting for pedestrians</li> <li>• Principals of computer aided lighting design for vehicles &amp; pedestrians</li> </ul> | 10:30am     | <ul style="list-style-type: none"> <li>• Computer aided design exercise</li> <li>• Step by step</li> </ul> |
| 1.00pm      | Lunch Break (lunch provided)   | 1.00pm      | Lunch Break (lunch provided)   |
| 1.30pm      | <ul style="list-style-type: none"> <li>• Category V vehicle route lighting</li> </ul>  | 1:30pm      | <ul style="list-style-type: none"> <li>• Design exercise continued</li> </ul>                              |
| 3.30pm      | Afternoon Tea Break  | 3.00pm      | Afternoon Tea Break  |
| 3.45pm      | <ul style="list-style-type: none"> <li>• Category P pedestrian lighting</li> </ul>   | 3.15pm      | <ul style="list-style-type: none"> <li>• Design exercise continued</li> </ul>                              |
| 5:15pm      | Depart   | 5.00pm      | Depart   |
|             |  | 6.00pm      | Dinner at Bayview on the Park hotel  |
|             |  | 7.30-9.30   | Lighting installation tour   |
|             | <b>Day 3</b>   |             |  |
| 8:30am      | <ul style="list-style-type: none"> <li>• Computer aided design exercise continued</li> </ul>   |             |  |
| 10.30am     | Morning Tea Break  |             |  |
| 10:45am     | <ul style="list-style-type: none"> <li>• Discussion on designs</li> </ul>  |             |  |
| 1.00pm      | Lunch Break (lunch provided)   |             |  |
| 1.30pm      | Road lighting Hardware <ul style="list-style-type: none"> <li>• Luminaire Photometry</li> <li>• AS/NZS 1158 Part 6 Luminaire standards</li> <li>• Lamp &amp; luminaire circuits</li> <li>• Maintenance factor in road lighting design</li> <li>• Conclusion</li> </ul>   |             |  |
| 3.45pm      | Afternoon Tea Break<br>Workshop Finish   |             |  |

Complete and fax to our training registration desk: 03 9886 3076

Registration form

Tax invoice

ABN 68 004 620 651



## ROAD & PUBLIC SPACE LIGHTING WORKSHOP

A three day training workshop on the Australian Standard A/NZS 1158 and the Austroads Guide to Traffic Engineering Practice: Roadway Lighting  
Book early limited spaces available.

**MELBOURNE 15 - 17 November 2005**  
**Bayview on the Park Hotel,**  
**52 Queens Road, Melbourne**

Separate registration form for each person please.

Name

\_\_\_\_\_

Position

Organization

Postal Address

Town

Post Code

Telephone

Fax

e-mail:

Please advise of any special dietary requirements:

### Registration Fee (inclusive of GST):

|  | Seminar | Number | Total |
|--|---------|--------|-------|
| <b>3 day Workshop – one delegate</b>           | \$1540  |        |       |
| <b>Discount for 3 or more delegates pp</b>     | \$1485  |        |       |
| <b>Purchase of Austroads Guide (hard copy)</b> | \$33    |        |       |
|  |         |        | \$    |

Method of Payment Please tick

Cheque enclosed, payable to ARRB Group, 500 Burwood Highway, Vermont South, Vic. 3133

Charge my credit card

Master Card

BankCard

Visa

Amex

Card Number

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

Valid until (mm/yy)

Amount to be debited AU\$

Card holder's name

Signature

**EFT Payments:** BSB 083 323 Acct No: 647968813 Bank: NAB Mt Waverley

**Please quote Job Ref No: FC71369** & forward remittance advice with registration form

Participants will receive registration confirmation by 9<sup>th</sup> November 2005. If you receive no confirmation by that date ring Lorraine on 03 9881 1680.

**ARRB's Statement on Privacy** see Page 3 of this document or view on our website [www.arrb.com.au](http://www.arrb.com.au)

# WORKSHOP

## Road and public space lighting

**BRISBANE**  
**6-8 December 2005**

ARRB, on behalf of Austroads is pleased to offer a three day intensive training workshop based on the new Australian Standard 1158 and the Austroads Guide to Traffic Engineering Practice Part 12: Roadway Lighting

### Workshop purpose

- To familiarise people with current best practice in road and public space lighting design and practice
- To present the background material underpinning the new revision of the Austroads Guide to Traffic Engineering Practice on road lighting
- To obtain hands on experience solving actual problems presented in the form of structured exercises using Perfect Lite software
- To help you accelerate your understanding and use of Australian Standard AS 1158

### Workshop endorsed by:



Australian  
Local  
Government  
Association



AUSTRALIAN INSTITUTE  
OF TRAFFIC PLANNING  
AND MANAGEMENT  
INCORPORATED



## Workshop content

1. Public lighting: A community service
2. Basics of light and Lighting – Concepts, terminology and units
3. Principles of road and public space lighting design
4. Road Lighting as a performance based standard
5. Principals of Computer Aided Lighting Design
6. Selection and design of lighting
7. Vehicle Route Lighting
8. Pedestrian Lighting
9. Luminaire Photometry
10. Lamp & Luminaire circuits
11. Maintenance of lighting systems

## Workshop outline

The ARRB Group in association with Austroads is pleased to be able to present a three-day workshop on the latest practices applying to road and public space lighting design and practice.

This workshop is based on the Australian Standard AS1158 and associated lighting standards. The supplemental Austroads Guide to Traffic Engineering Practice Part 12: Roadway Lighting is an additional general guide to road lighting standards and practice applicable to traffic routes and to a lesser extent, to local collector and minor roads. The Guide provides a brief introduction to the theory and basic principles involved in lighting design, along with a more detailed coverage of roadway lighting practices generally. The workshop provides instruction on the basic principles and extends this instruction to lighting design from first principles for roads to other public spaces.

The design and provision of public lighting is often arranged separately from other road improvements. It is therefore important for its design, installation and maintenance to be properly integrated with road design and traffic management practices to enhance the full achievement of traffic and community objectives.

All participants will be provided with a copy of workshop and speakers' notes. This documentation will be a useful technical resource for all traffic engineering and planning practitioners that have exposure to road and public space lighting design. Participants will also need their own copy of the new Australian Standard AS/NZS 1158, a calculator, a 1:500 scale, pencil and eraser. The Austroads guide which is available to Austroads Members as a free downloadable PDF document or as a printed and bound document available from SAI Global is optional. Hard copies of this guide can also be purchased with this workshop registration.

## Who should attend?

- All traffic management and local road practitioners
- Electricity distributors responsible for road lighting design, installation and maintenance
- Road design, road safety and traffic management consultants
- Engineers requiring specialist training in Lighting design
- Local Government engineers, planners and infrastructure managers
- State Road Authority staff who deal in road safety and traffic engineering
- Consulting engineers responsible for road and public space lighting projects
- Engineering graduates looking for specialist skills for career development

### Workshop size limited

This workshop has remaining vacancies for only 15 trainees so it is advisable that you register quickly to avoid disappointment.

### Endorsements

This course is endorsed by the following professional groups:

**Institution of Engineers, Australia (IEAust):** These courses are recognised by ENGINEERS AUSTRALIA for Continuing Professional Development (CPD) purposes.

**Institute of Transportation Engineers, Inc (ANZ section)**

**Australian Local Government Association (ALGA)**

**Australian Institute of Traffic Planning and Management Inc (AITPM)**

### The presenters:

**Dr Alec Fisher:** Alec has a long association with lighting research and was past chairman of the CIE Road Lighting Committee. He was an Engineering faculty member of the University of NSW for many years. He is currently chairman of Standards Australia Road Lighting Committee LG/2 and works in private consulting.

**John Rogers:** John is a Lighting Engineering Consultant at ALSTROM Australia. He is a long standing member of Standards Australia Committee LG/2 and a contributor to the Austroads Guide to Traffic Engineering Practice part 12: Roadway Lighting. John previously worked as Technical Manager at GEC Lighting and Rexel Lighting.

### Course enquiries

[training@arrb.com.au](mailto:training@arrb.com.au) Ph: 03 9881 1555

### Cancellation policy

If you are no longer able to attend this event a substitute attendee may take your place. However, if you wish to cancel your registration a full refund, minus a \$77 (inc GST) service fee, will be given provided you have notified us in writing, by email, letter or fax, at least 10 days before the start of the conference. No refund is available for cancellations under 10 days.

**ARRB's Statement on Privacy** – ARRB holds names and addresses of people with an interest in transport so that it can communicate with them. Personal information which you provide to ARRB may be held for normal commercial purposes such as invoicing. Sometimes your name and address details may be obtained from, or made available to other organisations both nationally and internationally in order to tell you about information, services or products in the transport area. If you do not wish us to hold your details, please write to The Information Officer, ARRB Group, 500 Burwood Highway, Vermont South, VIC 3133, or email on [info@arrb.com.au](mailto:info@arrb.com.au).

## Program

**Subject to change**

| Time    | Day 1  | Time      | Day 2  |
|---------|--|-----------|--|
| 8:30am  | Tea and Coffee on Arrival & Registration<br>Networking Opportunity for Delegates   | 8.30am    | Tea and Coffee<br>Review of Day 1 Learnings and Outcomes   |
| 9.00am  | <ul style="list-style-type: none"> <li>• Introduction</li> <li>• Public Lighting</li> <li>• Basics of Light &amp; Lighting</li> </ul>  | 9.00am    | <ul style="list-style-type: none"> <li>• In principal design exercise</li> </ul>                           |
| 10.45am | Morning Tea Break  | 10:15am   | Morning Tea Break  |
| 11.00am | <ul style="list-style-type: none"> <li>• Introduction to AS/NZS 1158 series</li> <li>• Performance based standard</li> <li>• Lighting for Vehicles</li> <li>• Lighting for pedestrians</li> </ul>  | 10:30am   | <ul style="list-style-type: none"> <li>• Computer aided design exercise</li> <li>• Step by step</li> </ul> |
| 12:30pm | Lunch Break (lunch provided)   | 12:30pm   | Lunch Break (lunch provided)   |
| 1.30pm  | <ul style="list-style-type: none"> <li>• Category V vehicle route lighting</li> </ul>  | 1:30pm    | <ul style="list-style-type: none"> <li>• Design exercise continued</li> </ul>                              |
| 3.30pm  | Afternoon Tea Break  | 3.00pm    | Afternoon Tea Break  |
| 3.45pm  | <ul style="list-style-type: none"> <li>• Category P pedestrian lighting</li> </ul>   | 3.15pm    | <ul style="list-style-type: none"> <li>• Design exercise continued</li> </ul>                              |
| 5:15pm  | Depart   | 5.00pm    | Depart   |
|         |  | 6.00pm    | Dinner at Chifley at Lennon's  |
|         |  | 7.30-9.30 | Lighting installation tour   |
|         | <b>Day 3</b>   |           |  |
| 8:30am  | <ul style="list-style-type: none"> <li>• Computer aided design exercise continued</li> </ul>   |           |  |
| 10.30am | Morning Tea Break  |           |  |
| 10:45am | <ul style="list-style-type: none"> <li>• Discussion on designs</li> </ul>  |           |  |
| 12:30pm | Lunch Break (lunch provided)   |           |  |
| 1.30pm  | Road lighting Hardware <ul style="list-style-type: none"> <li>• Luminaire Photometry</li> <li>• AS/NZS 60598 Luminaire standards</li> <li>• Lamp &amp; luminaire circuits</li> <li>• Maintenance factor in road lighting design</li> <li>• Conclusion</li> </ul> |           |  |
| 3.45pm  | Afternoon Tea Break<br>Workshop Finish   |           |  |

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Book early only 15 spaces available.

**BRISBANE 6 - 8 December 2005**

**The Chifley at Lennons,  
66 Queen Street, Brisbane**

Separate registration form for each person please.

Name

\_\_\_\_\_

Position

Organization

Postal Address

Town

Post Code

Telephone

Fax

e-mail:

### Registration Fee (inclusive of GST):

|   | Seminar | Number | Total |
|---|---------|--------|-------|
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| Discount for 3 or more delegates pp     | \$1485  |        |       |
| Purchase of Austroads Guide (hard copy) | \$33    |        |       |
|   |         |        | \$    |

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\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

Valid until (mm/yy)

Amount to be debited AU\$

Card holder's name

Signature

**EFT Payments:** BSB 083 323 Acct No: 647968813 Bank: NAB Mt Waverley

**Please quote Job Ref No: FC71722** & forward remittance advice with registration form

Participants will receive registration confirmation by 30 November 2005. If you receive no confirmation by that date ring Lorraine on 03 9881 1680.

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