

# 3rd Local Road Safety & Traffic Engineering Conference 2010

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Wednesday 9th - Thursday 10th June, Darling Harbour, Sydney

## ABOUT THE CONFERENCE

This Conference focuses on road safety & traffic engineering from a local perspective for local roads, including pedestrian & cyclist safety. It includes local roads & traffic areas from residential streets, to shopping precincts to rural roads.

A variety of practical presentations will be made on the conference theme with particular emphasis on what can be achieved at a local level including what individual Local Government Councils are achieving with respect to these issues. This is a practitioner level conference & delegates will gain information that they can implement immediately & learn practical solutions to for reducing the road toll & accident rate as well as severity.

### SPEAKERS INCLUDE:

One of our Keynote Presentations will be given by one of Australia's most well known & respected road safety experts in Professor Mary Lydon. Mary will explore "Why road crashes happen & what can be done about it."

Mary Lydon has over 30 years experience in roads & road safety. She holds qualifications in civil engineering, operations research & transport, & has held senior positions in both research & operations. Mary joined the University of Adelaide as Director of the Centre for Automotive Safety Research in March 2008 & is a Fellow of the Institution of Engineers.

Gerard Waldron, Managing Director, ARRB Group will deliver a Keynote Presentation on Safe Systems & Local Roads - Road Safety Development, Planning & Action.

### OTHER SPEAKERS INCLUDE:

- **Jason Deller**, Principal, Strategic Transport Planning, **Sunshine Coast Regional Council**
- **Alan Meares**, Road Safety Officer, **Moreton Bay Regional Council**
- **Dr Bruce Corben**, Senior Research Fellow, **Monash University Accident Research Centre**
- **Sonia Cambareri**, Team Leader Road Safety Behavioural Programs, Metropolitan North West Region, **VicRoads**
- **Prakash Kolarkar**, Acting Principal Engineer (Traffic Safety and Performance) Assets and Operations, **Department of Transport and Main Roads**
- **Craig Gist**, Director, **GTA Consultants**
- **Dr Ralston Fernandes**, Road Safety Statistical & Trend Analyst, NSW Centre for Road Safety, **Roads & Traffic Authority of NSW**
- **Larry Matters**, Senior Transport Investigator (Rail), **Australian Transport Safety Bureau**
- **Manjur Rahman**, Audit & Crash Manager, **Roads & Traffic Authority NSW**
- **Doris Lee**, Senior Traffic Engineer, **PB, Prof. Raphael Grzebieta**, Chair of Road Safety, NSW Injury Risk Management Research Centre (IRMRC), **University of New South Wales (UNSW)**
- **Nicola Fotheringham**, Senior Program Consultant (Motorcycle Safety), **VicRoads**
- **Daniel Gregor**, Team Leader Traffic Engineering & Mobility, **GHD**
- **Peter Harris**, **Road Safety Audits**
- **Terry Winning**, **Winning Traffic Solutions**
- **Thanuja Gunatillake**, Senior Transport Policy Analyst, **Royal Automobile Club of Victoria**
- **Dr Peter Cairney**, Principal Behavioural Scientist, Safe Systems, **ARRB Group**
- **Paul Riley**, Road Safety Project Manager, **Institute of Public Works Engineering Australia**
- **Jan Webb**, Road Safety/Active Transport Officer, **Melton Shire Council**

## TOPICS INCLUDE:

- Why accidents happen
- Safer Roads - how engineering can improve road safety
- Road Safety from a crash analysis perspective
- Road Safety Hazards - identification etc
- Crash barriers & technologies
- Electronic intervention
- Latest initiatives & best practice with Local Area Traffic Management Studies & Plans
- On-street car-parking policies & strategies (commercial versus residential needs)/ Interaction between traffic, parking & pedestrians associated with adjacent land use activity
- Road Safety Public Information/education Strategies & Initiatives
- Pavement-marking & Signage
- Vulnerable Road Users
- Motorcyclist Safety

## WHO SHOULD ATTEND

This conference will be of relevance to Traffic Engineers, Council Engineers & Officers, Councilors, Road Safety Officers, Researchers as well as Consultants & Contractors within the Traffic Engineering & Road Safety areas.

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# 3RD LOCAL ROAD SAFETY & TRAFFIC ENGINEERING CONFERENCE 2010

DAY 1: WEDNESDAY 9 JUNE

8.00 REGISTRATION & MORNING COFFEE

8.50 OPENING SESSION

8.50 **CONFERENCE OPENING: SCOTT MATTHEWS CONFERENCE CHAIR**

9.00 **KEYNOTE PRESENTATION: WHY ROAD CRASHES HAPPEN & WHAT CAN BE DONE ABOUT IT**

- The scale of road trauma in the world & in Australia
- What happens in crashes on local roads
- It's not all about the driver
- The vital role of speed & speed limits
- Safe local roads & roadsides
- Is vehicle technology the answer?
- What happens next?

**Mary Lydon**, Director, **Centre for Automotive Safety Research**

9.40 **KEYNOTE PRESENTATION: SAFE SYSTEMS & LOCAL ROADS – ROAD SAFETY DEVELOPMENT, PLANNING & ACTION**

- Infrastructure – engineering, planning, maintenance & design
- Road user – local community & education/awareness
- Funding – local/state/federal responsibility/support
- Developing practitioner knowledge to be more effective in local road safety & traffic management etc

**Gerard Waldron**, Managing Director, **ARRB Group**

10.20 PANEL SESSION & QUESTIONS

10.35 MORNING TEA

## ROAD SAFETY STRATEGIES SESSION

11.05 **COMPARISONS OF EMERGENT ROAD SAFETY STRATEGIES IN QLD**

- Coordinated approach to road safety between Moreton Bay Regional Council (MBRC), the Roads Alliance Team (Qld Transport & Main Roads & LGAQ), Qld Police Service & the Institute of Public Works Australia Qld
- This Multi-agency approach, based on the safe system methodology, created the Road Safety Partnership Project (RSPP) to reduce road trauma at the local government 'grass roots' level through infrastructure & behavioural change initiatives
- RSPP being introduced across Qld through the Regional Road Groups in the form of a Road Safety Community Partnership Program (RSCPP)
- Comparison with other Qld Councils who are now implementing their own road safety strategy from the RSPP learning's
- Explores issues at the Qld Councils of Moreton Bay, Sunshine Coast & Toowoomba

**Jason Deller**, Principal, Strategic Transport Planning, **Sunshine Coast Regional Council** & **Alan Meares**, Road Safety Officer, **Moreton Bay Regional Council**

11.40 **ROAD SAFETY STRATEGY DEVELOPMENT IN VIC & WA**

- Initiatives that can make a difference
- Relevance to other jurisdictions including local government
- Safe System: Putting in practice

**Dr Bruce Corben**, Senior Research Fellow, **Monash University Accident Research Centre**

12.05 **ROAD SAFETY ENGINEERING – MAKING IT WORK LOCALLY**

- Understanding road safety engineering
- Developing a safety basis for road and traffic management practice
- Delivering safe systems locally - what is required?
- Safety guidance for traffic practitioners

**Peter Croft**, Principal Research Engineer, **Safe Systems, ARRB Group**

12.30 PANEL SESSION & QUESTIONS

12.45 LUNCH

## CASE STUDY SESSION

1.35 **CASE STUDY: DIGGERS REST – COIMADAI ROAD PROJECT**

- A holistic approach to achieving a 'Safe System'
- Engineering, Education & Enforcement elements to achieve a holistic approach to Road Safety
- Trial of a combined approach of incorporating all three elements of this process to an engineering treatment on a black/grey spot funded project
- Community Consultation

**Sonia Cambareri**, Team Leader Road Safety Behavioural Programs, Metropolitan North West Region, **VicRoads**

2.05 **CASE STUDY: TRAFFIC SAFETY REVIEW OF AN 8.2KM LENGTH OF LAIDLEY – PLAINLAND ROAD, LOCKYER VALLEY REGIONAL COUNCIL**

- Reason for commissioning of the Road Safety Audit & Traffic Safety Review
- Outline of the Road Safety Audit & Traffic Safety Review process as required by the Department of Transport & Main Roads
- Overview of the existing road characteristics ie alignment, abutting land uses, intersections, speed zones, traffic volumes & general road environment
- Outline of the accident history along the road length for the most recent five year period
- Description of findings & recommendations of the Road Safety Audit, including reporting & the ranking/priority of recommendations
- What recommendations of the audit/review are likely to be implemented by the Department of Transport & Main Roads

**Prakash Kolarkar**, Acting Principal Engineer (Traffic Safety and Performance) Assets and Operations, **Department of Transport and Main Roads** and **Craig Gist**, Director, **GTA Consultants**

2.40 **CASE STUDY: 'SAVING THE ONES WE LOVE' – A SHARED APPROACH TO ROAD SAFETY**

- A road safety strategy focussed on working in partnership with Council, Police, various road safety partners & the community.
- Pro-active strategies highlighted to address road safety to include road safety education & enforcement
- Details of Community Road Safety Forums highlighting the effects road trauma has on our community held with positive feedback from the community and other road safety partners
- The importance of partnerships & a genuine commitment of all road safety stakeholders

**Jan Webb**, Road Safety/Active Transport Officer, **Melton Shire Council** and **Greg Payne**, Inspector Melton Police Service Area, **Victoria Police**

3.05 PANEL SESSION & QUESTIONS

3.25 AFTERNOON TEA

## 3M RURAL ROAD SAFETY SESSION

3.55 **SPONSOR PRESENTATION: DELIVERING SAFER ROADS FOR ALL**

- Advances in retroreflective technologies for road signage, vehicle visibility and pavement markings

**Andrew King**, Division Manager, **3M Traffic Safety Systems**

4.05 **UNCLASSIFIED ROADS: ROAD SAFETY CHALLENGES ASSOCIATED WITH MANAGEMENT OF LOCAL RURAL ROADS**

- Casualty crashes on NSW local roads between 2004 & 2009
- Speed on these local roads, particularly those in country & semi-rural areas

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# 3RD LOCAL ROAD SAFETY & TRAFFIC ENGINEERING CONFERENCE 2010

- Key issues relevant to the management of local roads.
- Management of road safety: 'legal' versus 'administrative' classification of a road
- Solutions in terms of application of the highly successful NSW Multidisciplinary Road Safety Reviews

**Dr Ralston Fernandes**, Road Safety Statistical & Trend Analyst, NSW Centre for Road Safety, **Roads & Traffic Authority of NSW**

#### 4.40 CASE STUDY: COLLISION BETWEEN THE CAIRNS TILT TRAIN & A B-DOUBLE TRUCK RUNGGOO LEVEL CROSSING, QUEENSLAND

- Two train drivers fatally injured

- Truck driver performance
- Road traffic control effectiveness
- Additional defences, heavy road vehicles
- Key recommendations

**Larry Matters**, Senior Transport Investigator (Rail), **Australian Transport Safety Bureau**

#### 5.15 PANEL SESSION & QUESTIONS

#### 5.30 - 6.30 NETWORKING DRINKS

## DAY 2: THURSDAY 10 JUNE

### VULNERABLE ROAD USERS SESSION

#### 8.00 REGISTRATION & MORNING COFFEE

#### 8.30 CASE STUDY: INVESTIGATION OF PEDESTRIAN CRASHES IN TOWN CENTRES

- Pedestrian crash investigations undertaken at 13 prominent pedestrian crash locations in Sydney Region
- The study methodology in accord with RTA's Accident Reduction Guide – Part 1: Accident Investigation & Prevention
- The study included a detailed crash analysis, site inspections to identify safety deficiencies that may have contributed to the pedestrian crashes, & development of road safety improvement strategies for addressing the identified crash problems
- Case study to illustrate the crash investigation process at a busy shopping strip with a history of pedestrian crashes

**Manjur Rahman**, Audit & Crash Manager, **Roads & Traffic Authority NSW** & **Doris Lee**, Senior Traffic Engineer, **PB**

#### 9.00 VULNERABLE ROAD USERS – SURVIVING HUMAN BODY IMPACTS

- Surviving crashes as a vulnerable road user – pedestrians, cyclists & motorcyclists
- Injury patterns & mortality
- Older & child pedestrian fatality trends in NSW
- Relative injury severity of non-motorised road users in NSW – bicycle into pedestrian & motor vehicle into bicycle impacts
- Shared bicycle-pedestrian footpaths
- Motorcycle survivability in roadside barrier & hazard impacts

**Prof. Raphael Grzebieta**, Chair of Road Safety, NSW Injury Risk Management Research Centre (IRMRC), **University of New South Wales (UNSW)**

#### 9.35 ADDRESSING THE NEEDS OF VULNERABLE ROAD USERS – APPLICATION OF ROAD SAFETY AUDITING IN NEW SOUTH WALES

- Road safety audit
- Vulnerable road users including School Zones & Work-site Safety
- Temporary traffic control

**T.G. Winning & S.R. Park**, **Winning Traffic Solutions Pty Ltd**

#### 10.00 PANEL SESSION & QUESTIONS

#### 10.20 MORNING TEA

### MOTORCYCLE & CYCLISTS SESSION

#### 10.50 IMPROVING MOTORCYCLE SAFETY: ACTIONS FOR LOCAL IMPLEMENTATION

- Victoria's strategic action plan for powered two wheelers 2009-2013
- Overview of motorcycle safety projects currently being conducted in Victoria
- Identification of actions that could be implemented at a local level
- Identification of projects that will guide future motorcycle policies

**Nicola Fotheringham**, Senior Program Consultant (Motorcycle Safety), **VicRoads**

#### 11.25 CYCLE PATH DESIGN AS LIMITED BY ROAD RULES - EXPERIENCES AT THE PLANNING STAGE

- Two-way cycle path design at signalised intersections in high pedestrian volume locations & the influence that the road rules have had on the design solution
- Design inputs: including movement behaviour & driver expectations, road rules governing the movements of cyclists & traffic & implications/limitations
- Pedestrian & cyclist priority with behaviours that contravene the road rules vs. designs that accommodate the road rules at the expense of providing priority
- Practical design solutions, including Harbour Esplanade, Docklands

**Daniel Gregor**, Team Leader Traffic Engineering, **GHD & Mobility** & **Peter Harris**, Principal Road Safety Auditor, **Road Safety Audits P/L**

#### 12.10 PANEL SESSION & QUESTIONS

#### 12.30 LUNCH

### COMMUNITY SESSION

#### 1.30 CASE STUDY: PUBLIC ISSUE CAMPAIGN: IMPROVE COMMUNITY'S UNDERSTANDING OF SAFETY BENEFITS OF ITS IN CARS

- RACV carried out market research in 2008 to gauge the community's understanding of on-road & in-vehicle ITS technology
- With the exception of airbags & ABS there was limited understanding & knowledge of both in-vehicle & on-road ITS initiatives
- Penetration of in-car ITS technology with the exception of front airbags & ABS was extremely low
- RACV is undertaking a major public issue campaign to accelerate the development, deployment & uptake of Intelligent Transport Systems in Victoria, Australia

**Thanuja Gunatillake**, Senior Transport Policy Analyst, **Royal Automobile Club of Victoria**

#### 2.00 STRENGTHENING THE COMMUNITY THROUGH LOCAL ROAD SAFETY PROGRAMS: AN INTRODUCTION TO THE AUSTRROADS GUIDE TO ROAD SAFETY PART 4

- Overview of the Austroads Guide to Road Safety Part 4; Local Government & Community Programs
- What local road safety programs need to succeed
- Social capital – what it is & why it is important
- Social capital & capacity building through local road safety programs

**Dr Peter Cairney**, Principal Behavioural Scientist, **Safe Systems, ARRB Group**

### 2.35 MOTOR VEHICLE CRASH COSTS TO THE COMMUNITY: A METHODOLOGY FOR ADDRESSING THIS BURDEN

- Appropriate addressing of the trauma cost
- If the level of injury from a crash can be determined, a methodology for applying costs borne by the community can also be represented to Councils
- A methodology for Councils to prioritise treatments required & identification of potential Black Spots before fatalities occur
- With local government owning the majority of the roads network consideration of looking at this as being a problem in need of addressing from the local level

**Paul Riley**, *Road Safety Project Manager, Institute of Public Works Engineering Australia*

### 3.00 CASE STUDY: GO ACTIVE2 SCHOOL – HOW TO ENCOURAGE KIDS TO WALK TO SCHOOL SAFELY

- Behavioural and audit program aiming to see higher participation of kids going safely to and from school by bus, bike or walking.
- Key outcomes include increased recognition of pedestrian safety and health messages within the school, decreased traffic congestion and air pollution.
- Resources include the production of child/parent-friendly Transport Access Guide for each school, distribution of safety vests, water bottles and pedometers.
- Walkability audits are undertaken to assess current environment and identify improvements.
- Pre-intervention and post-intervention surveys are conducted.

**Chris Hellmundt**, *Road and Community Safety Project Officer, City of Ryde*

### 3.25 PANEL SESSION & QUESTIONS

### 3.40 CONFERENCE CLOSE

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Full conference  Day 1  Day 2

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Full conference  Day 1  Day 2

Position \_\_\_\_\_

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#### Delegate 3: Name

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