

# BUILDING AND MAINTAINING HIGHWAYS FOR THE FUTURE

6 - 8 NOVEMBER 2011  
QUALITY HOTEL PLYMOUTH INTERNATIONAL  
NEW PLYMOUTH TARANAKI

**12th ANNUAL CONFERENCE**

*'Utilising new and existing technology to achieve value for money'*



**LINDSAY CROSSEN**

Lindsay Crossen is Group Civil Engineer for Fulton Hogan Ltd. Lindsay previously spent eight years as CEO for the NZ part of the Company and nine months as Acting CEO in Australia. Before that he worked eight years as District Engineer for Southland District Council, which has a network of 4500 km of rural roads and a wide range of community utilities.

For the last 25 years he has been involved in getting best value for money for infrastructure sustainability. Lindsay is a past Chairman of ROADING NZ, the industry contracting group with a focus on Building and Maintaining NZ's Land Transport Infrastructure. He was also Chairman of the Northern Gateway Alliance which built the Northern Gateway Toll Road.



**STEVE KILLEEN**

Steve Killeen is Executive General Manager for Downer's Transportation Sector. He has over 20 years experience of successfully delivering infrastructure maintenance and construction projects to achieve client and community outcomes and expectations.

Steve has a passion for collaborative working and driving improvements in safety, customer service, innovation and productivity through teamwork. He has participated in a number of alliance leaderships teams and industry improvement initiatives, including NZTA's current Highways Business Improvement Project.



**KEITH QUINN**

Sporting and Television Personality and Commentary King Keith Quinn's broadcasting career is simply quite exceptional. He has worked for NZBC - TVNZ from January 1965 and for ONE World of Sport since 1973.

But Keith is not limited to the spoken word. He is also a prolific writer and columnist, published in magazines and newspapers around the world, and is the author of 11 books on rugby and sporting matters.

To register online for this conference you can visit [www.nzihit.co.nz/nzta2011](http://www.nzihit.co.nz/nzta2011) and fill out the registration form or for more information please contact **Jill Warner P:** +64 6 7597065 ext 709 **E:** [jill@nzihit.co.nz](mailto:jill@nzihit.co.nz)

## KEYNOTE SPEAKERS

## 2011 PROGRAMME

### DAY 1 SUNDAY 6TH NOVEMBER 2011

**2.00pm** Bus departs the Quality Hotel Plymouth International for Tour of Fitzroy Yachts - followed by a visit to Te Rewa Rewa Bridge.

**5.00pm** Registration Open

**6.00pm** Welcome Function and Opening of Trade Display

### DAY 2 MONDAY 7TH NOVEMBER 2011

**8.00am** Registration Open - Arrival Tea and Coffee

#### SESSION ONE Plenary Session

**9.00am** Welcome from Mayor of New Plymouth **Harry Duynhoven**

**9.10am** **OPENING ADDRESS - Geoff Dangerfield, NZTA CEO**

**9.25am** **GUEST SPEAKER - Keith Quinn**

**10.15am** **MORNING TEA**

#### SESSION TWO

**10.45am** Parallel Workshops (Presentations are for 25 minutes followed by question time)

WORKSHOP 1	WORKSHOP 2	WORKSHOP 3
Traffic Management & Customer Focus	Asset Management	Pavement Design
<b>Hanford Cheung &amp; Ngan Truong, NZTA</b> Detection of Incidents using Vehicle Detection Station Data	<b>John Donbavand, WDM Ltd</b> Developing a financial Model for the NZ Road Network	<b>David Hutchison, Downer &amp; Jayden Ellis, Stevenson Laboratory Ltd</b> Statistical Quality Control of Basecourse Aggregate
<b>Bernie Sheary, ARMA</b> Traffic Management with a customer focus	<b>Andrew Litchfield, NZTA</b> Highway Data	<b>Ramiz Iskander, MWH NZ Ltd</b> Can we get our pavements to live longer?
<b>Hanford Cheung &amp; Anita Lin, NZTA</b> Auckland Motorways - Network Performance Monitoring	<b>Derek Roux, MWH Global</b> Unlocking the dTIMS setup	<b>Glynn Holleran &amp; Irina Holleran, Fulton Hogan</b> RAP is good - if you use it correctly

**12.00pm** Questions and Discussion

**12.15pm** **LUNCH**

# 2011 PROGRAMME

## SESSION THREE

**1.15pm** Parallel Workshops (Presentations are for 25 minutes followed by question time)

WORKSHOP 1 Innovation & VFM	WORKSHOP 2 Surfacing Design (Session 1 & 2) ITS & Traveller Info (Session 3 & 4)	WORKSHOP 3 Asset Management
<b>Dr Hussein Dia, AECOM</b> Best Practices in Dynamic Pricing of Managed Lanes	<b>John Patrick, OPUS Aggregate</b> Breakdown as a Cause of Chip Seal Flushing	<b>Peter Mitchell, NZTA</b> AMAzing Inputs to a Positive Stormwater Management Legacy
<b>Tony Fisher, NZTA</b> Value for Money	<b>Peter Cenek, OPUS</b> An investigation of chip loss on high stress corners	<b>Mike Marsden, NZTA</b> Surface Evolution and Failure Prediction
<b>Adam Ashford, AECOM &amp; Warwick Walbran, Transport Economics Ltd</b> Feedback to Transport Sector on Post Implementation Reviews	<b>Chris Vallyon, BECA</b> Cost Effective Performance Information using Bluetooth Tracking Technology	<b>Simon Gough, Whangarei District Council</b> RIMS update
<b>Peter Robinson, NZTA</b> Using grass control (spraying) to reduce high lip	<b>Dr. Hussein Dia, AECOM</b> Transport Management Centre of the Future	<b>Troy Rigby, Trimble</b> Managing a mixed fleet with Visionlink

**2.55pm** Questions and Discussion

**3.10pm** AFTERNOON TEA

## SESSION FOUR

**3.30pm** Parallel Workshops (Presentations are for 25 minutes followed by question time)

WORKSHOP 1 Innovation & VFM	WORKSHOP 2 Safety	WORKSHOP 3 Skid Resistance
<b>Larry Cameron, NZTA</b> Regional State Highway Passing & Overtaking Plans: A Bridge between High-Level Policy and Localised Solutions	<b>Bill Frith, OPUS</b> The impact of an ageing population on road transport network use by households	<b>Rowan Kyle, OPUS</b> The Application of Melter Slag as a Sealing Chip on Hawke's Bay State Highways
<b>Bob Cook, ARMA</b> Innovations and Value for Money	<b>Stephen Patience &amp; Graham Taylor, NZTA</b> High Productivity Motor Vehicles – A review of the first year following the implementation of the VDM Rule Amendment 2010	<b>Jeff Waters, Fulton Hogan</b> Changes in Contract Conditions and Performance Measures Drive Innovations
<b>Joanna Towler, NZTA</b> Roadmarking Materials On-Road Testing Project	<b>Shane Turner, BECA</b> Assessing Safety Implications of Design Trade Offs	<b>Royce Greaves, OPUS</b> Improved Skid Resistance through Intelligent Data Analysis

**4.45pm** Questions and Discussion

**5.00pm** Day 1 close

**7.00pm** Pre Dinner Drinks will be held around Trade Display in The Hotel Foyer

**7.30pm** Conference Dinner & Entertainment, Ballroom  
Dress Code - Smart - casual

## DAY 3 TUESDAY 8TH NOVEMBER 2011

### SESSION FIVE Plenary Session

**8.00am** Arrival Tea and Coffee

**9.00am** House Keeping from MC

**9.05am** **Steve Killeen** – Downer Executive General Manager

**9.35am** **Lindsay Crossen** – Fulton Hogan Group Civil Engineer

**10.05am** Questions and Answers

**10.20am** MORNING TEA

### SESSION SIX Plenary Session

**10.50am** Parallel Workshops (Presentations are for 25 minutes followed by question time)

WORKSHOP 4 Innovation & VFM	WORKSHOP 5 Risk Assessment (Session 1) Better Business Cases (Sessions 2 & 3)	WORKSHOP 6 Asset Management (Sessions 1 & 2) Risk Assessment (Session 3)
<b>Chris Olsen, Roading NZ</b> Bitumen use and Innovation in New Zealand	<b>Ian Leach, NZTA</b> Identifying Overweight Vehicles Crossing the Auckland Harbour Bridge Clip-ons	<b>John Donbavand, WDM Ltd</b> Validating a Measure for Identifying Flushing
<b>Andy Collins, OPUS</b> Intelligent Street Lighting	<b>Rodney Barber, The Treasury</b> Better Business Cases	<b>Royce Greaves, OPUS</b> Impacts of Forestry Harvesting – A low cost analysis to a high cost problem
<b>Joanna Towler, NZTA</b> Mark Owen, NZTA, Simon Fletcher, Fletcher Corp P25 Specification for High Skid-resistant Surfacing	↓	<b>John Healey, MWH Global</b> Using the risk register to optimise project scoping and ultimate success

**12.05pm** Questions and Discussion

**12.20pm** LUNCH

### SESSION SEVEN

**1.20pm** Parallel Workshops (Presentations are for 25 minutes followed by question time)

WORKSHOP 7 Pavement & Design	WORKSHOP 8 Procurement & Contract Model	WORKSHOP 9 Safety
<b>Alan Kirby, CCANZ</b> Thin Concrete Overlay – a Sustainable Solution for Pavement Rehabilitation	<b>Michael Darnell, OPUS</b> Non Compliance Bucket Process – the Canterbury State Highway Experience	<b>Dean Parker, NZTA</b> AMA – Wrong way traffic detections system trial on motorway ramps
<b>Phil Herrington, OPUS</b> Epoxy-Modified Porous Asphalt	<b>Bruce Walton, BECA</b> Technology Managing Agent Contractor – Case Study of a Procurement Model for Technology Maintenance in England UK	<b>Steve James, NZTA</b> The Safety Effectiveness of the Audio Tactile Profiled Markings Programme
<b>Anthony Stubbs, University of Canterbury</b> Can we build our motorways more cheaply?	<b>Simon Gough, Whangarei District Council</b> Reinventing the Works Department Collaborative Contracting for Roading Maintenance & Operations	<b>Tim Hughes, NZTA</b> High risk roads guides – making sense of safe systems in practice
<b>John Patrick, OPUS</b> Comparison of asphalt mixes designed by the Marshall method to those using the Austroads methodology	<b>Malcolm Abernethy, NZ Contractors'</b> Prequalification and tender evaluation	<b>Peter Everett &amp; Stuart Meakins, Auckland Transport</b> Managing the Risk of Disruption to Public and Businesses during Major Urban Corridor Upgrades
<b>Bryan Pidwerbesky, Fulton Hogan</b> A Case Study of Lessons Learnt from a Failure	<b>Selwyn Steedman, Tasman District Council</b> "What's New?"	<b>Shane Turner, BECA</b> Crash Prediction Models for Rural State Highways

**3.25pm** Questions and Discussion

**3.40pm** AFTERNOON TEA & PRIZE DRAW

**4.00pm** Conference close