Road Lighting 2015 is an initiative of specialist consultancy Strategic Lighting Partners (SLP) Ltd, which delivers strategic advice and business case analysis for new-generation New Zealand and Australian road lighting projects. SLP is particularly experienced in facilitating the collation and analysis of information on LED road lighting applications for councils and road controlling authorities in both countries. Find out more at www.strategiclightingpartners.com
Welcome to Road Lighting 2015: Smart City Investment at The Langham

Welcome to the second New Zealand conference and exhibition for road lighting professionals and road controlling authorities, Road Lighting 2015: Smart City Investment.

LED lighting is revolutionising road lighting infrastructure and delivering a quantum leap in cost-competitive efficiencies. It uses half the electricity of high-pressure sodium lighting, reduces maintenance costs by up to 75 per cent, enables easier and more precise lighting control, and helps create safer road conditions.

International experience now also demonstrates that internet-based LED lighting control systems are providing a platform for an exciting glimpse of our Smart Cities of the future.

Councils throughout New Zealand, and councils and utilities in Australia, face a common set of challenges: how to harness the newly available technologies and techniques, and how to make procurement decisions that indemnify them from risk. This conference has been established to help provide some of the answers.

Experts from eight nations are transforming Road Lighting 2015 into a “master class” on LED road lighting and smart control strategies for local government and the road lighting industry “down under”.

Hailing from the United States, Canada, UK, France, Germany, Denmark and Australia, as well as New Zealand, the speaker line-up makes this Auckland event a unique international networking opportunity.

The commercial exhibition will feature technology available from NZ and Australian specialists, along with top manufacturers and suppliers from US, Canada, UK, France, Germany, Belgium, Israel, Slovenia and China. Contractors and services suppliers of infrastructure finance, consultancy, smart construction, energy services and energy performance contracting are also on hand.

A big thank you to our Government sponsor, the Energy Efficiency and Conservation Authority (EECA), who has shared our vision for this conference. And thanks also to supporters who have endorsed the concept, including Local Government New Zealand (LGNZ), the Road Controlling Authorities (RCA) Forum, the New Zealand Traffic Institute (TRAFINZ), the Illuminating Engineering Society of Australia and NZ (IESANZ), Lighting Council NZ (LCNZ), the Society of Local Government Managers (SOLGM) and the Energy Management Association of NZ (EMANZ).

Our commercial sponsors have played a key role in bringing the conference to fruition, including GE Lighting, Silver Spring Networks, Electrix, and UL International NZ.

We hope you are stimulated and inspired!

Strategic Lighting Partners Ltd

Strategic Lighting Partners Ltd

Godfrey Bridger MBA, ME, MIESNA
Managing Director
Strategic Lighting Partners Ltd

Bryan King
MBA, DipBIA, NZCE, MIESNA
Director, Strategic Lighting Partners Ltd

Crystal Beavis
MA (Hons), PGCertMgmt, APR, MPRINZ
Director, Strategic Lighting Partners Ltd
Conference Speakers Day 1: Monday 9 March

Lawrence Yule
LGNZ President and Mayor of Hastings

Lawrence is the current President of Local Government New Zealand, elected in July 2008. Before being elected President he served as a provincial sector chair and member of the National Council of Local Government New Zealand, with special responsibilities for the transport and water portfolios. He is patron of several local groups and organisations, and takes a keen interest in organisations that operate to support the community of Hastings. He has been Mayor of Hastings District since 2001. Lawrence has an Honours Degree in Engineering, and has recently been made a Fellow of the Institute of Professional Engineers.

Mike Underhill
CEO Energy Efficiency and Conservation Authority

Mike has extensive management experience in the gas and electricity sector in New Zealand and overseas. He has been Chief Executive of WEL Networks, TransAlta, and Energy Direct. He has also had significant governance experience in this sector, and has been chairman of Pacific Energy Ltd, EECA, and Katolyst, the Waikato Regional Development agency. Mike is currently the independent chairperson of the Security and Reliability Council of the Electricity Authority. He has degrees in engineering and economics, has completed the Advanced Management Program at Harvard, and is a Fellow of the Institution of Professional Engineers. Mike joined EECA as Chief Executive in May 2007.

Almis Udrys
Director, Performance & Analytics Department, City of San Diego, United States

“Turning a modern city into a smart city”

Almis Udrys was appointed by Mayor Faulconer to establish the City of San Diego’s Performance & Analytics Department. Almis brings over a decade of local and statewide policy and operational experience, starting with the California State Auditor’s office, before moving to the State Legislature as a health care policy consultant, and a key strategist in negotiating a bi-partisan budget agreement with the Schwarzenegger Administration that included pension reform. More recently, Almis has delivered results for the City of San Diego in areas including strategic planning, economic development, workforce empowerment, and infrastructure funding. Almis has a master’s degree in public policy and is a certified Lean Six Sigma Green Belt.

Jesse Foote
Senior Research Analyst, Navigant Research, USA

“The future of networked street lighting and smart cities”

In his role with technology strategy consultant Navigant Research, Mr Foote leads the firm’s advisory service on energy efficient lighting including industry analysis, demand assessment, go-to-market strategies, and strategic advice. He also participates in custom research projects and syndicated market reports. Prior to joining Navigant Research, Mr Foote was the director of employer partnerships for the University of Toronto and an MBA from McGill University in Montreal.

Flemming Madsen
Head of Secretariat, Danish Outdoor Lighting Lab

“Using LED lighting to create a platform for the Smart City” (By video)

Flemming Madsen is manager of the Danish Outdoor Lighting Lab (DOLL), a bold Copenhagen-based living experiment to demonstrate how LED lighting and sensors installed on 9.2 kms of suburban streets can tie into urban IT infrastructure and assist public services such as police, fire, emergency, health and others. The sensors can also detect things like traffic density, air quality, noise, weather conditions and UV radiation. DOLL also has test facilities at the Technical University of Denmark (DTU). DOLL was launched last year with funding from Green Lab, which was established by the Danish Energy Agency.

Will Gibson
Co-founder and Managing Director, Telensa, UK

“Issues for Councils from a lighting controls supplier perspective.”

Telensa is the UK market leader in street light wireless monitoring and control systems with installations across the globe and managing more than half a million street lights. In 2014 the company delivered the world’s largest wireless street light control system, connecting 125,000 street lights to a central management system for Essex County Council. Telensa was established in 2005 as a part of Plextek Ltd, one of Europe’s largest, independent electronic design consultancies. Based near Cambridge, UK, Plextek’s wireless technology is used in military, security, vehicle tracking and smart metering applications.

Graham Mawer
Director, Next Energy, Sydney.

“The 20 largest LED road lighting projects in the world”

Graham Mawer has worked in the Australian utilities sector since 1996 on energy efficiency and renewable energy projects. Graham leads Next Energy’s street lighting practice and is Program Manager of a major street lighting initiative for 35 local governments in the Sydney area. He also works for other private and public sector clients on street lighting projects. Graham has a B.A.Sc. in Mechanical Engineering from the University of Toronto and an MBA from McGill University in Montreal.

Ed Ebrahimian
Director, Bureau of Street Lighting, City of Los Angeles

“How would Los Angeles upgrade its street lighting if it was starting now?”

The City of Los Angeles Street Lighting LED Initiative was launched six years ago to international acclaim. It is the largest municipal LED retrofit program in the world, and has become a model for cities and utilities everywhere. Five years later – against a background of rapid technological change – would Los Angeles do the same thing if it was starting now? Mr. Ebrahimian will review the LA program, and examine the importance of street lights for deployment of cutting edge applications for the “smart city”. Mr Ebrahimian manages the 2nd largest municipal street lighting system in the US with 215,000 streetlights, and an operating budget of $25 million.
**CJ Boguszewski**
Global Commercial Director for Smart Lights and Cities, Silver Spring Networks, USA.

“Florida: the world’s largest networked street lighting system under contract”

CJ will detail Florida Power and Light’s (FPL’s) decision to expand its networking program from 75,000 street lights to nearly 500,000 street lights across its territory statewide. He will discuss the criteria used and the expected benefits that the networked controls will bring to Florida. Since joining SSN in 2011, CJ has worked in various capacities, including leading the company’s Advanced Metering Infrastructure business. CJ has more than 20 years’ experience in ICT working with Vodafone, Oracle, CIBER and others.

**Dave Johnson**
Highway Manager, Transport for London; Member of the UK Lighting Board

“London’s £11 million road lighting upgrade to controllable LEDs.” (By video)

In a project to support Mayor Boris Johnson’s goal to reach a 60% reduction in carbon emissions by 2025, London’s transit authority, Transport for London, is spending £11 million to upgrade 35,000 lights to LEDs by 2016, controlled through a central management system (CMS). This first phase of a larger overall project is projected to reduce annual energy costs by 40% and annual carbon emissions by 9700 metric tons. The controls system will be aligned with traffic flow and road usage, and will reduce maintenance costs by keeping track of light failures.

**Alan Wallace**
Regional Road Corridor Delivery Manager, Auckland Transport

‘Making the decision to switch to LED street lighting’

In October 2014 Auckland Transport announced it would switch 40,000 HPS (yellow) streetlights to LED – the first city in New Zealand to decide to undertake a large-scale LED replacement programme. Alan will discuss the lead-up to the decision and the expectations arising. Alan and his team are responsible for Auckland’s local road network comprising 6,302 km of sealed roads, 844 km of metal roads, 994 bridges, 6,879 km of footpath and 105,000 streetlights. He has made his career in local government and has held senior transport management roles in the Auckland region since 1994.

**Guillaume Garric**
Regional Director, VINCI Energies (Citeos), France

“A long term contract for energy efficiency and Smart City development: the Cergy-Pontoise PPP”

Guillaume is Project Director of France’s largest-ever Public-Private Partnership for ‘Smart City’ street lighting renovation. This €200m project commits VINCI Energies/Citeos to achieve energy savings of 47% for Cergy-Pontoise, an urban area 20 km from Paris. Citeos has been with VINCI Energies for 13 years since graduating from HEC Paris EMBA and the French Engineering school Ponts Paris Tech. He is a key developer of new business models oriented towards next technologies. Smart Cities is one he is pioneering in France.

**Jon-Erik Dillon**
Founding Partner, RealTerm Energy, Canada

“Evaluating today’s technologies for the needs of tomorrow – the Canadian experience”

For decades, street lighting saw little technological advancement. Suddenly, technology has moved beyond a simple upgrade to energy-efficient LEDs. Now, managers face a range of intelligent data gathering and network control options in the complex and evolving world of Smart Cities. How do municipalities evaluate these technologies today to meet the needs of tomorrow? Jon-Erik will walk you through the Canadian experience. RealTerm Energy is Canada’s leading LED street lighting ESCO, currently converting streetlights in over 100 Canadian municipalities.

**Scott Vokey**
Energy Services Manager, Association of Municipalities of Ontario’s LAS (Local Authorities Services) Ltd, Canada

‘Why Ontario is a lead adopter of LED streetlights’

In 2013 less than five Ontario municipalities had upgraded their streetlight network to LEDs. Today there are more than 100. Scott Vokey explains how a not-for-profit municipal association became involved, and how it helped overcome traditional barriers to adoption. The risks, benefits and lessons learned may help Australian and New Zealand Councils. Scott is responsible for developing and overseeing energy conservation services for LAS Ltd. He has a proven track record of developing policy that is implemented by more than 150 municipal governments.

**Ewan Gebbie**
Executive Officer, Energy Management Association of NZ

“Developments in New Zealand energy performance contracting”

Ewan has been Executive Officer of EMANZ since April 2009. In that time EMANZ has introduced a range of initiatives to boost the capacity and capability of the NZ energy services sector, such as establishing specialist training courses and adapting an Australian building energy performance rating scheme to New Zealand (NABERSNZ). Prior to joining EMANZ, Ewan was Regulatory Manager at energy and fibre utility Vector.

**Commercial Forum**

LED Luminaire Suppliers Panel – Moderator Jon-Erik Dillon, RealTerm Energy

Control Systems Suppliers Panel – Moderator Graham Mawer, Next Energy

**After Dinner Speaker: Te Radar**

Award winning satirist and amateur historian

Te Radar (Andrew Lumsden) is an award winning satirist, documentary maker, writer, stage and screen director, failed gardener and amateur historian. He has presented six top rating TVNZ documentary series, winning Film and Television Awards for three of them. He’s a regular satirist on Radio NZ, and has won two Qantas Media awards for his columns in the NZ Herald. He is currently filming a new TV series called Radar’s Chequered Past, based on his stage show Eating the Dog, which is a celebration of NZ history.
**Conference Speakers Day 1: Monday 9 March**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Nat</th>
<th>Topic/Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 AM</td>
<td>Conference Registration</td>
<td></td>
<td>Networking in the Trade Exhibition</td>
</tr>
<tr>
<td>8:30 AM</td>
<td>Welcome - Mayor Lawrence Yule, President of Local Government New Zealand and Mayor of Hastings</td>
<td>NZ</td>
<td>All conference sessions are in Great Rooms III and IV - see conference and exhibition layout p12</td>
</tr>
<tr>
<td>8:45 AM</td>
<td>Opening address - Mike Underhill, CEO, Energy Efficiency &amp; Conservation Authority</td>
<td>NZ</td>
<td></td>
</tr>
<tr>
<td>8:55 AM</td>
<td>Almis Udrys, Director, Performance &amp; Analytics Department, City of San Diego, United States:</td>
<td>USA</td>
<td>“Turning modern cities into smart cities”</td>
</tr>
<tr>
<td>9:45 AM</td>
<td>Flemming Madsen, Head of Secretariat, Danish Outdoor Lighting Lab (DOLL)</td>
<td>DEN</td>
<td>“Using LED lighting to create a platform for the Smart City” (by video)</td>
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<td>Will Gibson, Co-founder and Managing Director, Telensa, UK</td>
<td>UK</td>
<td>“Issues for Councils from a lighting controls supplier perspective”</td>
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<tr>
<td>10:20 AM</td>
<td>Morning Tea</td>
<td></td>
<td>Networking in the Trade Exhibition</td>
</tr>
<tr>
<td>10:50 AM</td>
<td>Ed Ebrahimian, Director, Bureau of Street Lighting, City of Los Angeles</td>
<td>USA</td>
<td>“How would Los Angeles upgrade its street lighting if it was starting now?”</td>
</tr>
<tr>
<td>11:15 AM</td>
<td>Graham Mawer, Director, Next Energy, Sydney</td>
<td>AUS</td>
<td>“A review of the 20 largest LED road lighting projects in the world”</td>
</tr>
<tr>
<td>11:40 AM</td>
<td>CJ Boguszewski, Silver Spring Networks’ Global Commercial Director for Smart Lights and Cities:</td>
<td>USA</td>
<td>“Florida: the largest networked streetlight project in the US”</td>
</tr>
<tr>
<td>12:05 PM</td>
<td>Dave Johnson, Highway Manager, Transport for London; Member of the UK Lighting Board</td>
<td>UK</td>
<td>“London’s £11 million road lighting upgrade to controllable LEDs” (by video)</td>
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<td>Alan Wallace, Regional Road Corridor Delivery Manager, Auckland Transport</td>
<td>NZ</td>
<td>“Making the decision to switch to LED street lighting”</td>
</tr>
<tr>
<td>12:35 PM</td>
<td>Lunch</td>
<td></td>
<td>Networking in the Trade Exhibition</td>
</tr>
<tr>
<td>1:35 PM</td>
<td>Guillaume Garric, Regional Director, VINCI Energies (Citeos), France</td>
<td>FRA</td>
<td>“A long term contract for energy efficiency and Smart City development: the Cergy-Pontoise PPP”</td>
</tr>
<tr>
<td>2:00 PM</td>
<td>Jon-Erik Dillon, Founding Partner, RealTerm Energy, Canada</td>
<td>CAN</td>
<td>“Evaluating today’s technologies for the needs of tomorrow – the Canadian experience”</td>
</tr>
<tr>
<td>2:25 PM</td>
<td>Scott Vokey, Energy Services Manager, Association of Municipalities of Ontario’s LAS (Local Authorities Services) Ltd, Canada</td>
<td>CAN</td>
<td>“Why Ontario is quickly becoming a leading adopter of LED streetlights”</td>
</tr>
<tr>
<td>2:50 PM</td>
<td>Ewan Gebbie, Executive Officer, Energy Management Association of NZ</td>
<td>NZ</td>
<td>“Developments in New Zealand energy performance contracting”</td>
</tr>
<tr>
<td>3:10 PM</td>
<td>Afternoon Tea</td>
<td></td>
<td>Networking in the Trade Exhibition</td>
</tr>
<tr>
<td>3:40 PM</td>
<td>LED Luminaire Suppliers Panel</td>
<td>CAN</td>
<td>Moderator - Jon-Erik Dillon, RealTerm Energy</td>
</tr>
<tr>
<td>4:15 PM</td>
<td>Controls System Suppliers Panel</td>
<td>AUS</td>
<td>Moderator - Graham Mawer, Next Energy</td>
</tr>
<tr>
<td>4:50 PM</td>
<td>Day 1 wrap-up</td>
<td>NZ</td>
<td>Strategic Lighting Partners</td>
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<tr>
<td>5:00 PM</td>
<td>Cocktails</td>
<td></td>
<td>Networking in the Trade Exhibition</td>
</tr>
<tr>
<td>7:15 PM</td>
<td>Welcome by Henry Eng, President and CEO of GE Lighting Asia Pacific</td>
<td></td>
<td>After dinner speaker - Te Radar</td>
</tr>
<tr>
<td>7:30 PM</td>
<td></td>
<td></td>
<td>Award winning satirist and amateur historian</td>
</tr>
</tbody>
</table>
## Conference Speakers Day 2: Tuesday 10 March

<table>
<thead>
<tr>
<th>DAY 2: Tuesday 10 March</th>
<th>Time</th>
<th>Speaker</th>
<th>NAT</th>
<th>Topic/Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXHIBITION</td>
<td>8:00 AM</td>
<td>Trade exhibition opens</td>
<td></td>
<td>Networking in the Trade Exhibition</td>
</tr>
<tr>
<td>DAY 2 CONFERENCE OPENING</td>
<td>8:30 AM</td>
<td>Opening Address - Hon Simon Bridges, Minister of Transport, Ministry of Energy &amp; Resources</td>
<td>NZ</td>
<td>All conference sessions are in Great Rooms III &amp; IV</td>
</tr>
<tr>
<td></td>
<td>8:45 AM</td>
<td>US Consul General James Donegan</td>
<td>USA</td>
<td>&quot;Innovation and international trade&quot;</td>
</tr>
<tr>
<td>SAFER CITIES</td>
<td>8:50 AM</td>
<td>Dr John Milton, Director of Enterprise Risk and Safety Management, Washington State Department of Transportation, USA</td>
<td>USA</td>
<td>&quot;Using road lighting to minimise vehicle crashes in Washington State – a cost-benefit approach&quot;</td>
</tr>
<tr>
<td></td>
<td>9:20 AM</td>
<td>Dr. Ron Gibbons, Director, Centre for Infrastructure Based Safety Systems, Virginia Tech Transportation Institute (VTTI), USA</td>
<td>USA</td>
<td>&quot;The safety effects of road lighting – what international research tells us&quot;</td>
</tr>
<tr>
<td>MORNING TEA</td>
<td>9:50 AM</td>
<td>Morning Tea</td>
<td></td>
<td>Networking in the Trade Exhibition</td>
</tr>
<tr>
<td>LIVEABLE CITIES</td>
<td>10:30 AM</td>
<td>Ian Dryden, Team Leader – Industrial Design, City of Melbourne</td>
<td>AUS</td>
<td>&quot;Melbourne's lighting strategy has helped revitalise the CBD&quot;</td>
</tr>
<tr>
<td></td>
<td>10:55 AM</td>
<td>Kevin Cawley, Lighting Designer, Christchurch, New Zealand</td>
<td>NZ</td>
<td>&quot;Lighting for People: Humanising pedestrian area public lighting&quot;</td>
</tr>
<tr>
<td>FINANCE &amp; RISK</td>
<td>11:15 AM</td>
<td>Grant Hodges, Partner, Infrastructure Advisory, Ernst &amp; Young, New Zealand</td>
<td>NZ</td>
<td>&quot;Project Finance Solutions&quot;</td>
</tr>
<tr>
<td></td>
<td>11:35 AM</td>
<td>Greg Paterson-Jones, MD Energy Efficiency, UK Green Investment Bank plc, UK</td>
<td>UK</td>
<td>&quot;The Low-Energy Street Lighting' green loans initiative&quot; (by video)</td>
</tr>
<tr>
<td></td>
<td>11:45 AM</td>
<td>Michael Schrempf, Head, Green Technology Solutions Team, Munich Re, Germany</td>
<td>GER</td>
<td>&quot;A LED Performance Warranty can help make your project bankable&quot;</td>
</tr>
<tr>
<td>LUNCH</td>
<td>12:10 PM</td>
<td>Lunch</td>
<td></td>
<td>Networking in the Trade Exhibition</td>
</tr>
<tr>
<td>DESIGN &amp; TECHNOLOGY</td>
<td>1:15 PM</td>
<td>Paul Mercier, President, IES North America</td>
<td>USA</td>
<td>&quot;How NZ and Australia can benefit from the American experience of LED deployment&quot; (by video)</td>
</tr>
<tr>
<td></td>
<td>1:20 PM</td>
<td>Greg Williams, Chair, IESANZ NZ</td>
<td>NZ</td>
<td>&quot;Maximising the potential of new technology by best-practice lighting design&quot;</td>
</tr>
<tr>
<td></td>
<td>1:30 PM</td>
<td>Steve Hare, GM, HBW Lighting, Australia</td>
<td>AUS</td>
<td>&quot;Understanding LED Luminaires: Key points for procurement decisions&quot;</td>
</tr>
<tr>
<td></td>
<td>1:45 PM</td>
<td>Iain Bramwell, StreetCam 3D Manager, CoreLogic NZ Ltd</td>
<td>NZ</td>
<td>&quot;Identifying and mapping road lighting assets accurately, quickly and at low-cost&quot;</td>
</tr>
<tr>
<td></td>
<td>2:00 PM</td>
<td>Bryan King, Director, Strategic Lighting Partners Ltd</td>
<td>NZ</td>
<td>&quot;The Good, the Bad and the Ugly&quot; (Live demonstration using non-branded LED Luminaires)</td>
</tr>
<tr>
<td>AFTERNOON TEA</td>
<td>2:45 PM</td>
<td>Afternoon Tea</td>
<td></td>
<td>Networking in the Trade Exhibition</td>
</tr>
<tr>
<td>EMERGING INTERNATIONAL GUIDELINES</td>
<td>3:15 PM</td>
<td>Nigel Parry, Institute of Lighting Professionals UK, CIE Division 4 Editor</td>
<td>UK</td>
<td>&quot;The development of the UK specifications on CMS lighting controls and adaptive lighting techniques&quot;</td>
</tr>
<tr>
<td></td>
<td>3:40 PM</td>
<td>Kim Craig, Standardisation Management Board Member, International Electrotechnical Commission (IEC), Geneva</td>
<td>AUS</td>
<td>&quot;IEC standards for smart lighting and smart cities&quot;</td>
</tr>
<tr>
<td></td>
<td>4:05 PM</td>
<td>Chris Byrne, Chairman, Lighting Council New Zealand</td>
<td>NZ</td>
<td>&quot;Towards transforming NZ road lighting: Industry responses to new standards and guidelines&quot;</td>
</tr>
<tr>
<td></td>
<td>4:25 PM</td>
<td>Dr Steven Finlay, Manager Business Solutions, EquiP, Local Government NZ</td>
<td>NZ</td>
<td>&quot;Conference wrap-up and future directions&quot;</td>
</tr>
<tr>
<td></td>
<td>4:45 PM</td>
<td>Final Remarks - Strategic Lighting Partners</td>
<td></td>
<td>Networking in the Trade Exhibition</td>
</tr>
</tbody>
</table>
Hon Simon Bridges  
Minister of Transport and Minister of Energy and Resources  

In the current National-led Government, Simon is Minister of Energy and Resources, Minister of Transport, Associate Minister for Climate Change Issues, Associate Minister of Justice and Deputy Leader of the House. Prior to standing for Parliament, Simon was a Senior Crown Prosecutor in the District and High Courts. Simon was educated at the University of Auckland, completing a BA (Political Science and History) and a LLB (Hons). He later completed a Bachelor of Civil Law at the University of Oxford.

James E. Donegan  
United States Consul General to New Zealand  

“Innovation and international trade”  
Jim Donegan has served the U.S. Department of State for 20 years. His assignments have included Caracas, Accra, Washington, Rome and London. Jim is the recipient of the State Department’s Meritorious and Superior Honor Awards. He leads the Consulate in expanding the United States’ political, economic and trade relationships with New Zealand, increasing the Mission’s outreach to youth, and promoting academic and cultural exchanges.

Dr John Milton  
Director of Enterprise Risk and Safety Management, Washington State Department of Transportation, USA  

“Using road lighting to minimise vehicle crashes in Washington State – a cost-benefit approach”  
Washington State Department of Transportation is a world leader in the risk analysis of road crashes, injuries and fatalities and the mitigating effect of road lighting. Using statistical analysis, it is applying digital LED lighting and control technologies to reduce the road toll at highway blackspots. This programme falls within Dr Milton’s responsibilities for the identification, assessment and mitigation of all transport risks for the State’s 7 million population.

Kevin Cawley  
Lighting Designer, Christchurch, New Zealand  

“Lighting for People: Humanising pedestrian area public lighting”  
Over three decades Kevin Cawley has grown an international reputation for creative lighting design based on stage and theatre lighting, which has evolved into interior and exterior architectural and urban lighting. Kevin will step the audience through the meaning and mechanics of “humanised” public lighting, the possibilities attainable and their effects on people’s moods and feelings.

Dr Ron Gibbons  
Director, Centre for Infrastructure Based Safety Systems, Virginia Tech Transportation Institute (VTTI)  

“The safety effects of road lighting – what international research tells us.”  
Dr Gibbons is Virginia Tech’s lead lighting and visibility researcher in roadway-based safety systems. He is the author of several published papers on roadway lighting, photometry and target visibility showing that lighting and visibility are critical to the safety of motorists, pedestrians, and bicyclists on roadways, parking lots and garages. His research examines the effect of the spectral components of lighting and the use of adaptive lighting technologies that will adjust lighting based on need.

Ian Dryden  
Team Leader – Industrial Design, City of Melbourne  

“Melbourne’s lighting strategy has revitalised its CBD”  
Ian and his team design and coordinate lighting systems and street furniture for the City’s master plan and have won numerous awards for the cities projects. Ian will discuss Melbourne’s lighting strategy, its contribution to the revitalisation of the CBD over the past 25 years and the decision to embark on a five-year programme to switch to LED street lighting.

Grant Hodges  
Partner, Infrastructure Advisory, Ernst & Young, NZ  

“The LED Performance Warranty can help make your project bankable.”  
The Green Tech Solutions unit of global underwriter Munich Re develops and offers new and innovative insurance solutions for Renewable Energy and Energy Efficiency Technologies. Major developments include cover for wind turbine losses, solar PV performance, and a LED Performance Warranty Cover to support the bankability of large projects.

Gregor Paterson-Jones  
MD, Energy Efficiency, UK Green Investment Bank plc  

“A LED Performance Warranty can help make your project bankable.”  
Gregor is jointly responsible for the bank’s investment activities in the energy efficiency, industrial and public sector infrastructure and small renewables team. He has over 20 years’ transaction experience at leading financial services organisations focussing on the public and private sector, with specific expertise in emerging markets internationally in clean energy infrastructure finance, and across numerous sectors in sub-Saharan Africa.

Michael Schrempp  
Head, Green Technology Solutions Team, Munich Re  

“The development of the UK specifications on CMS lighting controls and adaptive lighting techniques.”  
Nigel Parry is the Principal with Orangetek Ltd, LED road lighting luminaire manufacturers. In addition he is a Professional Services Advisor for the Institution of Lighting Professionals (ILP) in the UK, still has his own Lighting Design consultancy “Array Lighting” and is a member and the editor of the International Commission on Illumination (CIE) “Division 4” standards, responsible for “Lighting and Signalling for Transport.”
Kim Craig
Member, International Electrotechnical Commission (IEC) Standardisation Management Board
“IEC standards for smart lighting and smart cities”
Kim Craig is a Council member of Standards Australia, and an elected member on the International Electrotechnical Commission (IEC) Standardisation Management Board in Geneva, representing Australia. He is also HPM Legrand Standardisation and Regulatory Policy Manager. He is a Director of Lighting Council Australia, and Chairman of the Country Committee for the electrical industry digital information platform Voltimum Australia.

Chris Byrne
Chairman, Lighting Council New Zealand
“Towards transforming NZ road lighting: Industry responses to new standards and guidelines.”
Chris has more than 30 years’ experience in the New Zealand Lighting Industry, having worked for a number of companies covering a range of responsibilities from lighting and luminaire design, to sales and senior management. Recently Chris has been involved in the instigation of Better Road lighting in NZ, including the installation of Road Lighting Control Systems.

Paul D. Mercier
President, Illuminating Engineering Society of North America (IESNA)
“How NZ and Australia can benefit from the American experience of LED deployment.”
Paul is a principal of Lighting Design Innovations with over 30 years’ experience in lighting design completing projects in Montreal, New York, Ottawa, Toronto, Calgary, Vancouver, Phoenix and other centres across North America. Paul is an author, an international lighting design awards judge, and a lighting course instructor at SUNY College, Buffalo, and the University of Calgary.

Greg Williams
President, NZ Chapter, Illuminating Engineering Society of Australia & NZ (IESANZ)
“Maximising the potential of new technology by best-practice lighting design”
Greg’s more than 25 years practical experience in electrical engineering has been focussed on lighting, electrical and utilities design, and management for the first 11 years in a power utility, and for the past 15 years at Engineering Consultancy Beca Ltd, where he works as a Technical Director of Building Services. Greg provides lighting design solutions for clients throughout Australasia and the South Pacific.

Steve Hare
General Manager, HBW Lighting, Australia
“Understanding LED Luminares: Key points for procurement decisions”
Steve Hare is the General Manager of HBW Lighting in Australia, distributors of AEC Illuminazione, and regular columnist for Lux Review Australia. Steve has worked in the UK and Australia the street lighting and tunnel lighting industries, working on projects such as Piccadilly, Westminster UK and Holmesdale Tunnel, M25, UK.

Iain Bramwell
StreetCam 3D Manager, CoreLogic NZ Ltd
“Identifying and mapping road lighting assets accurately, quickly and at low-cost”
Wellington City Council has undertaken a pilot project with CoreLogic NZ to assess the use of Street Cam 3D, a mobile laser scanning system, to identify and map roadside assets. With LED road light conversion on the horizon, one focus of the project was to improve the quality of the data the City holds on its street lighting assets. Iain’s presentation will review mobile laser scanning technology and the benefits it offers asset managers.

Bryan King
Director, Strategic Lighting Partners Ltd
“LED Luminaire Demonstration – ‘The Good, the Bad and the Ugly’”
In a darkened auditorium Bryan King will deliver a non-branded, live demonstration comparing LED luminaire optical performance. This is to show the real consequences of LED luminaire choices and how different beam spread and colour options affect the outcomes delivered. Bryan is a recognised authority and consultant on road lighting practices worldwide. He was founding Chairman and now Executive Director of Lighting Council NZ, he sits on three AS/NZ Lighting Standards committees and the IEC Lighting Committee, and is a member of IESNA.

Dr Steven Finlay
Manager Business Solutions, EquiP: The Centre of Excellence for Local Government NZ
“Conference wrap-up and future directions”
Steven is experienced in working with technologies and services that increase efficiency, effectiveness and reduce resource use. As director for the Road Transport Unit - a partnership with the NZ Transport Agency - Steven coordinates a team of experienced engineers and asset managers who enable asset owners to improve activity management. With Councils now adopting smart lighting solutions, Steven is keen to facilitate the uptake of LEDs, connecting best practice through the sector.

Final Remarks – Strategic Lighting Partners
Enormous benefits and opportunities will accrue to communities able to harness the new LED lighting and networked control technologies – energy and cost efficiencies, safer roads, more liveable cities and a platform for ‘smart’ developments. An exciting journey lies ahead!
Energy Efficiency and Conservation Authority (EECA)

EECA is the government agency that works to improve the energy efficiency of New Zealand's homes and businesses, and encourage the uptake of renewable energy.

Strategic Lighting Partners Ltd (SLP)

SLP is a specialist management consultancy facilitating strategies for implementation of LED road lighting applications for councils and road controlling authorities in New Zealand and Australia. SLP is the organiser of Road Lighting 2015.

GE Lighting

GE Lighting is the professional division of General Electric specialising in lighting solutions all around the world. GE was born from the invention of the world’s first affordable incandescent lamp. More than a century later, its Lighting business still brings light to the world, helping advance new technologies such as light-emitting diodes (LEDs) and new generation high intensity discharge lamps, that operate with more efficiency, less cost and less environmental impact than ever before.

Silver Spring Networks

Silver Spring Networks is the world’s leading smart energy platform and solutions provider. Silver Spring’s standards-based IPv6 networking platform connects utilities to customers and cities to communities, achieving greater operational efficiencies, increasing network reliability and empowering consumers to better manage energy consumption. For more information, visit www.silverspringnet.com.

Electrix

Electrix is a leading provider of engineering, construction and maintenance services to asset owners in the utility, industrial, commercial, resources and infrastructure sectors. Established in New Zealand in 1955, the company expanded to Australia in 1997 and has also completed major projects in Indonesia and the Pacific. We employ more than 2,000 people and bring a proven approach in both traditional and new smart technologies to support our clients. Our parent company is French multinational VINCI Energies.

UL International NZ

UL is a global independent safety science company with more than a century of expertise innovating safety solutions from the public adoption of electricity to new breakthroughs in sustainability, renewable energy and nanotechnology. UL certifies, validates, tests, inspects, audits, advises and trains. We provide the expertise to help customers navigate growing complexities across the supply chain from compliance and regulatory issues to trade challenges and market access.

Conference satchel supplied by OrangeTeK

Established in Australia in 2004, OrangeTeK is a worldwide company specialising in lighting products that use LED lighting technology. OrangeTeK built its reputation as a provider of LED-based traffic lights and now also produces high-quality LED street light luminaires.
Local Government New Zealand EquiP (LGNZ EquiP)

LGNZ represents the national interests of councils in New Zealand and leads best practice in the local government sector, providing advocacy and policy services, business support, and – through its EquiP Centre of Excellence – advice and training to assist its members to build successful communities throughout NZ.

NZ Society of Local Government Managers (SOLGM)

SOLGM is the professional organisation for local government management in New Zealand. SOLGM represents and supports its members, local government managers and staff through professional development and networking opportunities, membership support services, good practice resources and advocacy work.

New Zealand Traffic Institute (TRAFINZ)

The New Zealand Local Authority Traffic Institute or TRAFINZ represents local authority views on road safety and traffic management in New Zealand. It exists to lobby the government, to influence decision making on road safety and traffic issues. It also acts as a forum for collectively pursuing traffic issues of interest to local authorities, and for sharing information and advice.

Road Controlling Authorities (RCA) Forum

The RCA Forum is an officials group with representatives from 66 territorial local authorities, the Department of Conservation, Local Government New Zealand and the New Zealand Transport Agency. It is a forum for resolving issues of common concern.

Lighting Council New Zealand (LCNZ)

Lighting Council New Zealand represents the industry with regard to the formulation of regulation, compliance and environmental issues. LCNZ members participate in the formulation of International Standards, ensuring the industry is in step with other parts of the world. LCNZ aims to encourage improvement in lighting practices, promote ethical standards, advance the professionalism of the lighting industry and promote its interests in New Zealand.

Energy Management Association of NZ (EMANZ)

EMANZ promotes the highest standards of Energy Management skills and competence to foster and facilitate the integration of sound Energy Management practices into all sectors of the New Zealand economy. It is a collaborating technical society of the Institute of Professional Engineers New Zealand (IPENZ) which supports its members through a range of activities that raise skills, knowledge and all-round competence in energy management.

Illuminating Engineering Society of Australia and New Zealand Ltd (IESANZ)

The aim of the Society is the advancement of the art and science of illumination and the dissemination of knowledge to all interested parties. The Society’s diversified membership includes engineers, architects, educators, students, contractors, manufacturers and designers. The Society operates under the name: IES: The Lighting Society.

Electrical Contractors’ Association of NZ

The Electrical Contractors Association of New Zealand has a membership of 1,450 electrical contracting businesses operating under the MASTERelectricians brand. These members employ 7,000 electrical workers and have total annual combined sales of $1 billion. MASTERelectrician Contractors are the professionals of the electrical trade and with ECANZ’s organisational strength behind them, specifying a MASTERelectrician Contractor is your safeguard against sub-standard workmanship.

University conference supporter

Massey University is a leader in lighting research and teaching. Our photometric laboratory on our Albany (Auckland) campus measures everything from chromaticity coordinates to luminous flux. We have the Graduate Certificate in Science and Technology (Lighting), the only New Zealand course accredited by the IESANZ.
Conference Exhibitors

Advanced Lighting Technologies NZ Ltd (Booth 11)
Advanced Lighting Technologies (ADLT) has operated in the Australian and NZ markets for over 20 years providing long life, energy efficient, sustainable lighting solutions. ADLT are the distributors for, USA based Cree, has revolutionised the lighting industry with cost effective, high performance LED lighting products for road, path & area lighting applications.

Aesthetics Lighting Solutions (Booth 25)
Aesthetics Lighting Solutions has a fantastic team of people with a passion for lighting, who are dedicated to adding value to project developments by combining their technical knowledge with excellent service and lighting design to produce high quality, customised lighting and controls solutions for roadway, industrial, commercial, architectural, and sports applications.

Betacom Ltd (Booths 15 and16)
Betacom are New Zealand’s leading exterior lighting manufacturer of road, area, functional and decorative lighting. Our leading edge technology together with our Christchurch based manufacturing facilities allow us to manufacture to meet New Zealand conditions. We complement this by distributing both the BEKA and Schreder ranges.

CoreLogic Ltd (Booth 24)
CoreLogic is a leading property information, analytics and services provider in the US, Australia and NZ. Bringing together property intelligence and geospatial companies, PropertyIQ and Terralink International, CoreLogic helps clients identify growth opportunities, improve performance and mitigate risk. CoreLogic provides data and geospatial consultancy, and technology-based solutions such as eMap and StreetCam3D.

CSP Pacific (Booth 27)
CSP Pacific are the market leader in the manufacture and supply of Lighting Poles and Columns and roadside safety products. With over 40 years in business and backed by New Zealand’s largest listed company, Fletcher Building, CSP Pacific provide quality innovative products to ensure New Zealand’s roads are safer.

Ecc Lighting (Booth 1)
iGuzzini is one of the largest manufacturers of innovative, architectural lighting in Europe and have been a partner of ECC for over 25 years. Wow, U.F.O. and the Woody family are their leading LED street lighting solutions. Recent street lighting projects include Eden Park Carpark, Lorne St, Fort St, Dalby St and Halsey St. www.ecc.co.nz

Ecolight (Booth 32)
ECOLight is a Division of TransNet NZ Ltd, one of the largest suppliers of electrical hardware to power utilities and electrical wholesalers throughout NZ and the South Pacific. ECOlight supplies the streetlight, commercial and industrial markets with LED lighting solutions utilising smart technologies, including wireless, to enhance lighting energy savings.

Electrix (Booth 12)
Electrix is a leading provider of engineering, construction and maintenance services to asset owners in the utility, industrial, commercial, resources and infrastructure sectors. Boasting a 60-year heritage we employ more than 2,000 people and bring a proven approach in both traditional and new smart technologies to support our clients. Our parent company is French multinational VINCI Energies.

Energy Light Ltd (Booth 23)
Energy Light is a New Zealand owned and operated lighting company, who has partnered with LRL, (LED Roadway Lighting). LRL are a Canadian manufacturer of LED roadway luminaires, designed for longevity and efficiency. The LRL ‘NXT’ was awarded “Best in Class” at the 2014 Next Generation Luminaria Awards.

Enlightenz Ltd (Booths 2 and 3)
Enlightenz is committed to the energy-efficient lighting market, and delivers cost-effective projects of distinction across all commercial, industrial and local government markets. We invest in the development of leading luminaires for NZ and export markets, and are proud to achieve projects that deliver more and more value over their economic life.

GE Lighting (Booth 31)
GE imagines things others don’t, builds things others can’t and delivers outcomes that make the world work better. GE brings together the physical and digital worlds in ways no other company can. In its labs and factories and on the ground with customers, GE is inventing the next industrial era to move, power, build, light and cure the world. www.ge.com

Globelink NZ Ltd (Booth 33)
Globelink NZ Ltd is an importer and distributor of quality, innovative lighting products and electrical components. DLEDS Italy - LED street lighting to exacting standards with extensive experience in electronics and optic development. techno Italia - High performance innovative electrical connection solutions for applications with high technical content. Gewiss Italy - Products with advanced technologies. Gewiss Lighting offers a number of class leading, street and canopy solutions

Illuminating Engineering Society of Australia and NZ (IESANZ) (Booth 14)
The aim of the Society is the advancement of the art and science of illumination and the dissemination of knowledge to all interested parties. The Society’s diversified membership includes engineers, architects, educators, students, contractors, manufacturers and designers. The Society operates under the name: IES: The Lighting Society.

Lucy Zodion (Marine Instruments Ltd) (Booth 17)
Lucy Zodion is a leading manufacturer and supplier of street lighting equipment, supplying a wide range of low voltage fused street lighting isolation products, photo-electric control units, electronic control gear, sheet steel and cast iron pillars and associated equipment. Our environmentally friendly products offer low consumption and exceptional control.
Lux Review Australia (Booth 30)
Technology and the need to save energy are transforming the world of lighting. Lux Review Australia is the most authoritative and engaging magazine for lighting decision-makers. We publish the best case studies of retrofit and new build lighting projects, independent product tests, as well as sharp analysis and debate on the sector's hottest trends.

Lux Mapping - Odyssey Energy Ltd (Booth 8)
Lux Mapping is a unique service that allows intelligent data gathering. Lux Levels are recorded at normal road speed with no impediment to the other traffic and provides an accurate performance measurement of each light unit. Results of the survey can be easily integrated into asset owner’s management plan.

Luxtella (Booth 37)
Le-tehnika is a European LED street lighting fixtures (branded Luxtella). Our products have CE, ENEC certificate and we meet ISO standards. Our luminaires offer high efficiency (more than 100lm/w), ability to connect to CMS, and high reliability (5 year warranty). We use Cree LEDs and Philips Xitanium drivers. We’re seeking a NZ distributor.

LZ Lighting Ltd (Booth 28)
LZ New Zealand is a leading NZ manufacturer and supplier of LED lighting solutions for the residential, commercial and industrial markets. Founded in 2007, LZ New Zealand has built a high reputation for quality, supplying well-known NZ companies including Westpac, Ryman Healthcare, Fonterra, MetLifeCare, St John, Cory’s Electrical, and Ideal Electrical.

Massey University (Booth 36)
Massey University is a leader in lighting research and teaching. Our photometric laboratory on our Albany (Auckland) campus measures everything from chromaticity coordinates to luminous flux. We have the Graduate Certificate in Science and Technology (Lighting), the only New Zealand course accredited by the IESANZ. Find out more at massey.ac.nz/lighting.

Orangetek (Booth 26)
OrangeTeK specialises in public lighting products that make use of LED lighting technology. We design our LED street lights to cut down energy consumption without sacrificing performance. OrangeTeK’s aim is to use our knowledge in LED light technology and help to make our society more sustainable.

Pacific Aerials (Booth 34)
Pacific Aerials are world leaders in the design and manufacture of communications antennas. Since 1977, we have built antennas that satisfy the requirements of the most demanding users. Our ISO9001 accreditation, gained in 1994, ensures that the quality engineered into design is maintained in every antenna and accessory produced in our Auckland factory.

Philips Lighting (Booth 22)
PHILIPS
Philips Lighting is leading the industry transformation from traditional lighting to energy efficient lighting including LED. We provide road and street lighting solutions for councils and transport authorities to help reduce their maintenance and energy costs, including luminaires and controls, such as our innovative CityTouch system.

Silver Spring Networks (Booth 29)
Silver Spring Networks is the world's leading smart energy platform and solutions provider. Silver Spring’s standards-based IPv6 networking platform connects utilities to customers and cities to communities, achieving greater operational efficiencies, increasing network reliability and empowering consumers to better manage energy consumption. For more information, visit www.silverspringnet.com.

Spectratch Lighting Ltd (Booth 20)
Spectratch Lighting Ltd: distinctive brands, limitless lighting possibilities. NZ agents for Architectural Area Lighting USA, Beacon Lighting USA, Hubbell Lighting USA, International Lighting Australia, and Kim Lighting USA. Luminaires in our range incorporate innovative high-performance LED technology with aesthetic, architecturally relevant design. Also available are HID to LED luminaire upgrade kits for existing installations.

Spunlight Poles Ltd (Booth 35)
Spunlite Poles has built a reputation for innovative design and manufacture of a wide range of poles and columns to exacting standards at our Christchurch manufacturing facility since 1962. Spunlite Poles is the only pole manufacturer in NZ that is a true “one stop shop” from design through to manufacturing.

TechLight Ltd (Booth 7)
TechLight has the products, skill and experience to ensure your project is brilliantly realised. Our portfolio of LED road lighting and urban lighting luminaires use the highest quality components to maximise efficiency and lifespan. Our lighting design specialists can work with you to achieve the result you want.

UL International New Zealand Ltd (Booth 19)
UL is a global independent safety science company with a century of expertise innovating safety solutions including breakthroughs in sustainability, renewable energy and nanotechnology. UL certifies, validates, tests, inspects, audits, advises and trains. We provide expertise to help customers navigate the supply chain from compliance and regulatory issues to trade challenges and market access.

9-10 March, The Langham Auckland, New Zealand
Road Lighting Conference – 9th – 10th March 2015

VENUE: The Langham Hotel – Great Rooms 1 & 2

All booths are 3m x 2m (Unless otherwise specified)
Click here to view the conference program.

Lighting application photographs courtesy of Advanced Lighting Technologies NZ Ltd and the City of Melbourne.