

What next?



2016 Infrastructure Sustainability Conference

25 October 2016 | Doltone House Darling Island, Sydney

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0800 Registration

0830 Welcome to Country

Uncle Ray Davison, Gadigal Elder

0840 ISCA Welcome

Antony Sprigg, CEO ISCA

0900 Building infrastructure that lasts longer, positively impacts the environment, and improves quality of life

Bianca Nijhof, Global Account Leader Natural Capital Arcadis

Infrastructure solutions being delivered globally are working to strengthen trade ties with neighbouring countries and working to boost economic growth. In turn infrastructure is helping to bring some regions one step closer to reducing poverty and providing equality of opportunity. In other regions, infrastructure development is connecting cities and helping rebalance the economy, while also providing development opportunities for new socioeconomic groups. Additionally, approaching infrastructural developments in an integrated way using innovative thinking enables these projects to enhance the environment rather than negatively impact it.

0930 California High Speed Rail sustainability track record

Margaret Cederoth, Sustainability Leader California High Speed Rail

The California High-Speed Rail Authority is delivering system that will transform travel in California for the 21st Century. Its delivery is setting a new standard for green infrastructure in California and has already achieved ambitious sustainability targets after the first year of construction.

1000 Global trends in infrastructure sustainability

Anne Kerr, Global Head Urbanisation Mott McDonald

Enhancing physical infrastructure with digital technology has the potential to meet the mounting challenges from global trends including population growth, greater consumer demands, and tighter budgets. Finite natural resources is also a key driver. The presentation will be looking at “what next” for infrastructure, and how to unlock hidden capacity.

1030 morning tea

1110 Lessons from an Intrapreneur

Dr Andrew Harris, Director – Engineering Excellence Group Laing O’Rourke

Laing O’Rourke is one of the World’s largest privately owned engineering and construction companies, delivering hospitals, schools, high rise offices, power stations, railways, roads, mines, ports and hydrocarbons. Four years ago Andrew was recruited

to set-up and lead a global centre of excellence to transform the company’s capabilities through strategic innovation, research and development, and enhanced technical performance. Much of this is centred on identifying, developing and deploying new technologies across a traditional and risk averse business, where there is an absolute focus on value. In this talk Andrew will explore some of the lessons from being an entrepreneur in a global, multi-billion-dollar business.

1140 GRESB survey

Emke Bus, GRESB

Richard Palmer, WSP | Parsons Brinkerhoff

This presentation will summarise of results of the inaugural GRESB Infrastructure Assessment. It will also summarise WSP Parsons Brinkerhoff’s assessment of the alignment between GRESB Infrastructure Assessment and IS rating scheme and provide a pathway for the two sustainability frameworks identifying complimentary aspects and an assessment of the overlap between the categories, impacts, benchmarks and reporting requirements.

1200 Metro Tunnel sustainability leadership

Alister Campbell, Melbourne Metro Rail Authority

Metro Tunnel is one of Australia’s largest public transport infrastructure projects. The \$10.9 billion Metro Tunnel will transform the way people move around Melbourne. Metro Tunnel is the first step towards a ‘metro style’ rail network for Melbourne with

the ‘turn up and go’ train services that are the hallmark of the world’s great cities. A vision for the project’s sustainability was developed very early on, which has led to a robust governance and policy framework for successfully delivering the project. In this presentation Alister will outline how the Metro Tunnel sustainability team influenced leadership, developed a sustainability culture, integrated sustainability into the concept design, developed the Metro Tunnel Sustainability Targets and prepared for project delivery.

1220 lunch

1320 Materials Design Challenge

Suppliers and designers were challenged to provide case studies where theoretically better sustainable outcomes can be achieved when products are used the right way. Panellist have been selected from entries to present their case study.

Moderator: Ross Davies, Sustainability Manager BlueScope Steel, Chair ISCA Materials Working Group

Panellists:

Michael Chin, Asset Manager Main Roads WA

Kate Harris, Chief Executive Officer Good Environmental Choice Australia

Brett Jennings, Technical Director – Transport (Structures Lead – T2T Alliance) Mott MacDonald (presenting on behalf of T2T Alliance)

Rob Kilgour, Materials Technology Principal Engineer WSP Parsons Brinckerhoff

Ray Lee, Director Echo Barrier

1400 Road Corridor Regeneration

Jarrah Bassal, Senior Sustainability Advisor Transurban

Transurban is regenerating under-utilised and disused sites within road corridors alongside its toll road assets. Known as the Motorscapes program, this regeneration comprises two components – native plant regeneration and iconic public art installations or other social infrastructure.

Transurban hopes Motorscapes encourages other road operators and agencies to consider similar approaches and, in so doing, provide road infrastructure that not only allows the efficient transport of people and goods but also makes a greater and enduring contribution to local ecosystems and climate change mitigation.

1420 Showcasing WA

Amy Elkington, Senior Environment and Sustainability Consultant GHD, Co-chair ISCA WA Working Group

Western Australia is geographically isolated and vast but this has not hindered its sustainability professionals from making a positive impact on the infrastructure landscape. Over the past year Team WA has accomplished great outcomes on IS projects and as part of ISCA's WA Working Group. Some of these outcomes will be shared during this showcase.

1440 City Rail Link – Sustainability in a New Zealand cultural context

Liz Root, Principal Sustainability Advisor City Rail Link Auckland Transport

Berenize Peita, Ngāti Te Ata, Representative of Mana Whenua forum

The largest infrastructure project in New Zealand, Auckland's \$2.5b City Rail Link, is working with Mana Whenua to incorporate their cultural values into the IS framework for use on the project. This presentation will talk about the process used, the outcomes arrived at and what changes this is bringing to the project.

1500 afternoon tea

1520 Sustainable and ethical procurement

Moderator: Leeora Black, Managing Director ACCSR

Panellists:

Richard Brincat, Organisational Development Partner Transport for NSW

Ross Davies, Sustainability Manager BlueScope Steel

Jackie Aggett, Head of Procurement Australian Hub Laing O'Rourke Australia

1600 The challenge of infrastructure sustainability in a local government and regional context

Julian Fyfe, Infrastructure Technical Manager Parkes Shire Council

Brad Gauci, John Holland

The town of Parkes, NSW is undergoing a transformative, once-in-a-generation upgrade to key water infrastructure including its main water and sewage treatment plants. Sustainability has featured heavily in the planning and design, but the scale, location and financing of the projects present unique challenges to achieving positive sustainability outcomes.

1620 Triple Bottom Line validation of TfNSW's Sustainable Design Guidelines v4.0

Jonas Bengtsson, CEO Edge Environment

Dr Jane Inglis, Policy Manager Sustainability and Systems Infrastructure & Services Transport for NSW

TfNSW have developed v4.0 of the Sustainable Design Guidelines (SDGs) as part of their commitment to continuous improvement in sustainable infrastructure delivery. This project critically assesses the new SDGs using life cycle triple bottom line modelling to determine the value proposition of the performance levels of the SDGs.

1640 "How To" guide for developing a Business Case for sustainability

Glen Hedges Co-Chair ISCA Contractor Working Group

Nicole Neal, Co-Chair ISCA Contractor Working Group

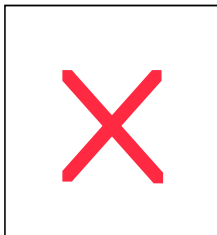
"A Guide to Developing a Business Case for Sustainability in Infrastructure Delivery" has been produced by volunteer members of ISCA's Contractors Working Group. The guide aims to assist industry practitioners evaluate and present a sustainability idea and positively influencing decision makers in eight steps regardless of their commercial experience. The guide also includes worked examples, templates and handy references.

1700 close



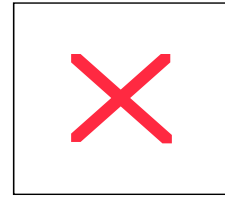
Bianca Nijhof
Global Account Leader Natural Capital Arcadis

Bianca is a member of Arcadis NV eleven person 'Global Sustainability Leadership Team' responsible for the development of strategy, and overseeing delivery of a broad range of programs that improve the quality of life. Bianca's contribution encompasses a wide range of activities including coordination of Arcadis' World Business Council for Sustainable Development (WBCSD) and World Economic Forum (WEF) memberships and supporting business and governmental clients in all aspects of natural capital realisation. Bianca is involved in setting up a portfolio of solutions to create value using the concept of natural capital for clients and regularly facilitates businesses in the creation of their Natural Capital Strategy and Action Plans. She brings 20 years of leadership experience in environmental and sustainability consulting to her current roles.



Margaret Cederoth
Sustainability Leader California High Speed Rail
Sustainability Director WSP Parsons Brinckerhoff

Ms Cederoth directs the sustainability program for the California High-Speed Rail program, the largest infrastructure project in the US. She is an urban planner with more than 18 years of experience delivering sustainable infrastructure solutions to projects throughout North America and in the Middle East. Ms Cederoth leads corporate sustainability for WSP Parsons Brinckerhoff in the US, and developed a sustainable design toolkit for the firm's infrastructure sustainability practice. She currently serves on technical committees that provide industry guidance on greenhouse gas emissions quantification for transit agencies as well as work on the Envision sustainability rating system.



Anne Kerr
Global Head Urbanisation Mott McDonald

Dr Anne Kerr has been a driving force in Mott MacDonald's businesses relating to the development of future cities over the last decade, drawing on over 25 years of experience of project delivery from concept through implementation in an integrated manner. The benefits of this approach can be seen in community and new town developments in various countries from the Middle East to Australasia. She was seconded into the Hong Kong Government to participate in various strategic planning and development plans for Hong Kong from 1996 through 2030 involving integrated transport, landuse, residential, recreational, employment and commercial plans.



Dr Andrew Harris
Director Engineering Excellence Group
Laing O'Rourke

Andrew Harris is a Professor of Engineering at The University of Sydney, and the Australian director of Laing O'Rourke's engineering and innovation consultancy, the Engineering Excellence Group. Laing O'Rourke is Australia's largest private engineering and construction business, with local turnover of \$3 bn p.a. Andrew received his PhD from the University of Cambridge in 2002 and is a Chartered Engineer and Fellow of the Institution of Chemical Engineers (IChemE) and Engineers Australia (IEAust). Throughout his career he has worked at the interface between industry and academia.



Emke Bus

Managing Director ESG & Infrastructure GRESB

Emke Bus is Managing Director, ESG & Infrastructure, responsible for the management and implementation of GRESB Infrastructure, including business, product and market development, as well as the GRESB Infrastructure platform. Emke brings extensive experience in infrastructure investments - with over 9 years of experience, she was among the early fund investors in this asset class. Emke previously worked as a portfolio manager for infrastructure and private equity investments for Syntrus Achmea and as a relationship manager for Dexia Asset Management. Emke holds a Master of Science in Business Administration from Erasmus University in the Netherlands. She is a Chartered Alternative Investment Analyst.

sustainable cities. After starting in local government as an urban planner, Alister has worked for almost ten years in private consultancy and in the Victorian Government delivering major transport projects such as Western Highway – Anthony’s Cutting, South Morang Rail Extension Project, Regional Rail Link and the Metro Tunnel. Alister has led teams gaining planning approvals and, more recently, guiding the sustainable design and delivery of major projects.



Ross Davies

**Sustainability Manager BlueScope Steel
Chair ISCA Materials Working Group**

Ross is a specialist on sustainability for BlueScope Steel. With over 28 years’ experience in the steel industry his background includes previous roles in sales, marketing, business management and change management before moving into the sustainability area eight years ago.

Ross represents BlueScope Steel or the Australian steel industry on a number of industry groups. Ross is a Green Star Accredited Professional, Infrastructure Sustainability Accredited Professional, accredited practitioner in Prosci Change Management, accredited trainer of Situational Leadership II, trained in Negotiation and holds a Post Graduate Diploma in Management from Macquarie University.



Richard Palmer

**Associate Director - Sustainability
WSP | Parsons Brinckerhoff**

Richard is an engineer by training, a consultant by profession and an ecologist at heart. He leads the Sustainable Places offering for WSP | Parsons Brinckerhoff in Australia/New Zealand, providing design and advisory services on green buildings, sustainable infrastructure and urban renewal projects. He has over 10 years’ international expertise in sustainable design and urban resilience approaches to the built environment in industrialised and emerging economies.



Michael Chin

Asset Manager Main Roads WA

Certified engineering practice area, Asset Management, investigation, design and project management of roads infrastructure; Fellow IPWEA; Chartered Accountant of Australia and NZ; Road Safety Auditor. The past 20 years in roles that; “identify suitable and various options for solving transport problems”. Wide practical deliverable experience in standards and planning in finance, projects, the last 10 years as asset manager as consultant to government, business. The last 6 years with Main Roads as Asset Manager Operations and Planning providing assessments on regional and metropolitan needs.



Alister Campbell

Planning and Environmental Manager, Tunnels and Stations Melbourne Metro Rail Authority

Alister is an urban planning, environmental and sustainability professional with a keen interest in



Kate Harris
Chief Executive Officer Good Environmental Choice Australia

Kate has an extensive background in leadership, capacity building and education aimed at finding sustainable solutions for the future. Has held a variety of management, organisational and coaching roles and previously spent six years with the Centre for Sustainability Leadership, including two years as CEO, and now a non-executive director. Is also the founder of consulting firm Future Ready, on the Advisory Board for Pollinate and a graduate of the Asialink Leaders Program.

Kate draws on her diverse experience in the performing arts, executive coaching, cultural change and organisational development, helping individuals, organisations and communities to create a better future.



Brett Jennings
Technical Director – Transport Mott MacDonald Structures Lead T2T Alliance

Brett is a chartered civil structures engineer with 18 years' experience on a variety of transport and infrastructure based projects both in Australia and overseas. Has specialised in all aspects of bridge engineering and been involved in the detailed design of over 30 bridges.

Brett was the Structures Design Lead on the T2T Alliance project, a 4km motorway standard upgrade of South Road, Adelaide's main north-south Corridor. The Project incorporates 4 major road bridges, a rail overpass, pedestrian bridge, services bridge and 6 km of highly innovative world first soil nail retaining walls.

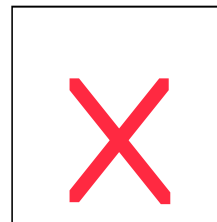


Rob Kilgour
Materials Technology Principal Engineer WSP Parsons Brinckerhoff

Rob leads WSP | Parsons Brinckerhoff's materials technology capability across the Australia and New Zealand business. He advises on projects across the transport, civil infrastructure, maritime, energy, resources, and property sectors.

Rob specialises in durability planning, materials selection, cathodic protection of steel and reinforced concrete, concrete repair specification, and deterioration modelling for steel and concrete. He also has extensive experience in asset condition assessments, residual life assessments, failure analysis and strategic asset management.

Rob's broad project experience across various industries gives him a deep of understanding materials performance across the asset lifecycle, and a great appreciation for sustainable solutions.



Ray Lee
Director Echo Barrier

Ray Lee is the Director of Echo Barrier Australia. Since commenced operations in 2012 in partnership with the UK principals, Echo Barrier has become the world's leading provider of temporary noise solutions targeting the event and construction industries.

Ray has had a distinguished career in a number of different industries including banking, technology, and property development/management in Australia, Asia, and UK. Ray's expertise includes product management, sales and marketing, and change management.



Jarrah Bassal
Senior Sustainability Advisor Transurban

Jarrah Bassal is a leading advisor and advocate of sustainable approaches in our built environment. With over ten years' experience in engineering, environment and sustainability roles across civil infrastructure, rail and commercial building disciplines his holistic engineering approach brings fresh and practical solutions to embed sustainable outcomes as a strategic component of business operations.

In 2013 he was recognised as a NSW Office of Environment and Heritage Sustainability Champion of the year and in 2014 he trained under Al Gore as a Climate Reality Leader. At Transurban he now leads several projects that demonstrate the additional value created through a sustainable approach to infrastructure delivery and operation.



Amy Elkington
Senior Environment & Sustainability Consultant GHD, Co-chair ISCA WA Working Group

Amy has been in the environmental and sustainability field for the last eight years, as a consultant at GHD. Majority of her career has focused on large infrastructure projects in WA and the Cocos (Keeling) and Christmas Islands. Notable projects include the Rumah Baru Freight and Passenger Facility, New Perth Bunbury Highway, Mandurah Entrance Road, Great Eastern Highway Upgrade, and most recently the Gateway WA Perth Airport and Freight Access Project where she was the Environment and Sustainability Manager. Amy is currently assisting the Forrestfield Airport Link team with the implementation of the IS rating. To date, Amy has been the lead assessor for the As Built IS ratings on two infrastructure projects. She is also co-chair of the ISCA WA Working Group.



Liz Root
Principal Sustainability Advisor
City Rail Link Auckland Transport

Liz has been working in sustainability within the built environment sector for over a decade, in the UK, Australia and NZ. Starting her career at the Building Research Establishment in the UK, Liz has been part of the City Rail Link team since 2014. Prior to this she was part of the facilities management team at Victoria University, was Sustainability Manager for a national contractor and held roles as Technical Manager at both the NZ and Australian Green Building Councils. She holds a BA(hons) and DipArch in Architecture and an MSc in Energy Efficient and Sustainable Building.



Berenize Peita
Ngāti Te Ata, Representative of Mana Whenua forum

A Kaitiaki is an indigenous person from New Zealand who actively protects, nurtures and cares for the environment. Berenize is knowledgeable in Iwi Kaitiaki responsibilities and practices having grown up around the central hub of her iwi Ngāti Te Ata Waiohū. In 2010 Berenize was mandated by the iwi to make a difference. She has advised Council Controlled Organisations on Ngāti Te Ata Waiohū Kaitiakitanga for the last six years. Because of the strong relationship between iwi and the land, Kaitiaki protection of the environment is intertwined with cultural values, identity and language. Berenize holds a BA(hons), LLB, LLM(hons) from Waikato University and a PGDipTeach from Auckland University.



Leeora Black
Managing Director ACCSR

Leeora D. Black, PhD, founder and managing director of ACCSR, is a globally recognised CSR and sustainability expert and has more than 30 years' experience in helping organisations adapt to their changing environments.

A driving force in the field of corporate social responsibility in Australia, Leeora is known for her pioneering work on stakeholder engagement, as much as her ability to analyse and solve complex CSR and management issues.

Leeora works with senior managers and executive teams to create effective corporate and stakeholder strategies and build management capabilities. She is passionate about nurturing the development of the CSR profession and she works to transfer knowledge and skills to facilitate continuous improvement for clients and colleagues both during and after engagements.

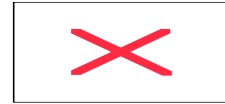
She is the author of *The Social Licence to Operate: Your Management Framework for Complex Times*, Do Sustainability Publishers, Oxford, 2013.



Richard Brincat
Organisational Development Partner
Transport for NSW

Richard is an experienced leader and practitioner in learning and organisational development with a depth of knowledge gained from over 20 years' experience working across a number of industries as well as government.

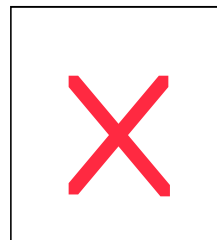
Richard is the lead SME in the development of Transport's Social Procurement Workforce Policy that is aimed at maximising social outcomes through the significant investment dedicated to Transport for NSW projects.



Jackie Aggett
Head of Procurement Australian Hub
Laing O'Rourke Australia

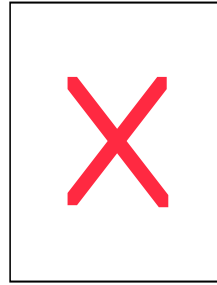
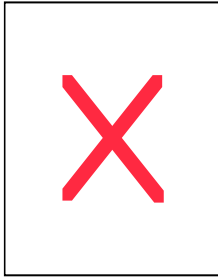
A competent commercial person with 25 years of experience in the resources, rail, construction and oil and gas industry. This experience covers roles in commercial, procurement, contractual, strategic sourcing and financial management from project start-up through to close-out including all facets of tender preparation, negotiation, contract award and subsequent on-site contract administration, claims, project controls, forecasting, financial reporting and risk management as the client asset owner and/or contractor.

Currently the Head of Procurement Australian Hub at Laing O'Rourke responsible for the management of company's external spend of \$2 billion and leading a team of 40 regional and project reporting staff including a central supply chain /strategic procurement team based in North Sydney.



Julian Fyfe
Infrastructure Technical Manager
Parkes Shire Council

Julian is an environmental engineer and researcher with diverse experience in urban water planning, resource recovery and sustainability. At Parkes Shire Council he has been managing the environmental and sustainability aspects of major water infrastructure projects as well as undertaking planning for a new recycled water scheme. Prior to joining Council, Julian worked in the university sector as a research consultant, post-doctoral fellow and lecturer, and continues to foster collaborative relationships with the sector. He was awarded his doctorate on effluent management and resource recovery in dairy production in 2014.



Jonas Bengtsson
CEO Edge Environment

Jonas is a co-founder and CEO of the sustainability consultancy firm Edge Environment. He has 14 years' experience servicing public & corporate clients in a range of sectors delivering sustainability advisory, training and life cycle environment, social and cost assessments across multiple sectors for government, NGOs and industry.

Jonas is the Vice President of the Australian LCA Society and a member of the Technical Advisory Groups for Green Star and the Australasian EPD Programme. He is also a member of ISCA's materials working group.

Glen Hedges
Co-Chair ISCA Contractor Working Group

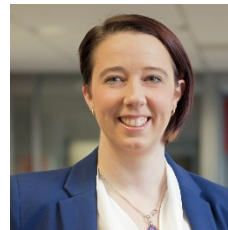
Glenn is responsible for providing project and strategic sustainability support to CIMIC Group companies leveraging off a diverse range of management and technical experiences in the Australian and UK environmental services and construction industries. He was a founding Director and Company Secretary of ISCA, is an ISCA Verifier, and currently co-chairs ISCA's Contractor Working Group. Glenn is motivated to facilitate the creation of business value from innovations and sustainability for organizations' involved in the delivery of projects in the built environment whilst also contributing to solving society's broader environmental, social and economic challenges.



Dr Jane Inglis
Policy Manager Sustainability and Systems Infrastructure & Services Transport for NSW

Jane is a leader in infrastructure sustainability. She has won a number of awards including from Consult Australia and IPWEA. Jane is also a trusted advisor and verifier for ISCA – and provides ongoing input for the continuous improvement of the IS Rating Tool.

Jane is currently managing the development of Infrastructure & Services' Sustainable Procurement Procedure and approval of the Sustainable Design Guidelines v4. Her focus is on demonstrating the value proposition for sustainability, as well as industry and cross-government collaboration, to ensure TfNSW delivers value for the customer and the NSW community.



Nicole Neal
Co-Chair ISCA Contractor Working Group

Nicole Neal is the Corporate Environmental & Sustainability Manager at major engineering and construction contractor McConnell Dowell Group and has over fourteen years' experience in sustainability and environmental management. Nicole is responsible for defining the environmental and sustainability strategies and setting common standards and processes for environmental management and sustainability across the McConnell Dowell Group globally.

Nicole is Co-Chair of the ISCA Contractor Working Group and has worked in Australasia, Asia, Europe, the UK and Africa in a career has seen her work across a range of sectors, including master planning, transportation, infrastructure, property management, heavy industry and mining, as well as construction.

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