

ITE-ANZ NEWSLETTER Q2 2019

WHERE IN THE WORLD?

Can you guess the location of this photo? Answer on Page 21



Corporate Supporters



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PRESIDENT'S COLUMN

Students and Young Members

Many of you will not be aware of just how active our young members have been. A few years ago Prof Richard Tay re-established the Monash Student Chapter and then Laura turned up and led them into several new directions. John Reid (Austraffic) then chipped in a Platinum Sponsorship to support their activities. Now the interest and activity is growing rapidly.

This is a summary of the Student and Young Member activities at ITE-ANZ:

1. A Student Chapter, Transport Engineers at Monash (TEM), has been operating at Monash University for a few years.
2. A Mentoring Program for Monash University students has been established by TEM and is in its second year.
3. A Student Chapter is being established at the University of Sydney.
4. A Student Chapter is being established at the University of Canterbury in New Zealand.
5. An ITE-ANZ Young Members group is being established for those under 36 years of age.
6. A Student Chapter is being considered at the University of Melbourne.
7. A Student Chapter is being considered at the Victoria University of Technology (in Melbourne).
8. At a recent meeting with Russell Jones, Principal, Austraffic, Western Australia, the possibility of setting up some activity in Perth was discussed.

Please consider if you or your firm would like get involved in these exciting developments and would like to support the development of transport professionals of the future.

Cyclists 'less than fully human'

A recent study (*Dehumanization of cyclists predicts self-reported aggressive behaviour toward them: A pilot study*, Alexa Delbosca, Farhana Naznina, Nick Haslamb, 2019) found that around half of non-cyclists view cyclists as 'less than fully human' and dehumanization measures were significantly correlated with aggression toward cyclists.

This is very disappointing to me because I find some motorists and some pedestrians also behave in unsociable ways. Cutting into a small gap without using an indicator seems to be happening more frequently on the roads. As footpaths become more congested in the city it can be very difficult to walk against the flow of traffic because often no-one in the approaching group will give you room to pass.

I think a small percentage of people behave unsociably whether riding, walking or driving. It is unfair to focus on one group or blame all of them for the bad behaviour of a few.

Automated Braking

Forty countries led by Japan and the European Union have agreed to require new cars and light commercial vehicles to be equipped with automated braking systems starting as soon as next year. The regulation requires all vehicles sold to come equipped with the technology by which the sensors monitor how close a pedestrian or object might be. (Associated Press Feb 2019)

If we added lane-keeping technology to the above, maybe we wouldn't have to spend all those \$100s millions on road barriers.



Humans-in-the-Loop

Maarten Sierhius, chief technology director at Nissan's Silicon Valley research centre, a former NASA scientist who is expert in autonomous systems and artificial intelligence, believes retaining human intervention is a must for self-driving cars. (Age 06/04/2019) He and an increasing number of others believe full autonomy in all situations is still very difficult to achieve and will take a lot longer than is popularly believed. It will be easy to implement on freeways but not on suburban streets.

I agree with this view and that is why I think we should concentrate on developing the uncrashable vehicle which retains the human-in-the-loop.



Nick Szwed
ITE-ANZ President
President@ite.org.au

ITE-ANZ: HOT TOPICS IN TRANSPORT

The 2019 ITE-ANZ Victorian seminar series is well underway. The seminar organisers always welcome your ideas.

What transport issues, emerging technologies or projects do you want to hear about from leading professionals in 2019?

Send your suggestions to seminar coordinator Laura Aston at: laura.aston@monash.edu

Laura Aston

UPCOMING ITE-ANZ EVENTS

Planning is well underway for events from August. Visit the ITE-ANZ website home page for updates – <https://www.ite.org.au/>

RECENT ITE-ANZ EVENTS

June Seminar and Networking Event

Multi-Modal Traffic Impacts and Planning

Date: Wednesday, 5 June 2019

Time: 4:30 - 6:00 pm, followed by refreshments and networking, courtesy of event host, PwC

Venue: Level 21 PricewaterhouseCoopers (PwC), 2 Riverside Quay, Southbank VIC 3006

What are the gaps and opportunities in current approaches to travel management planning for new developments – both residential and commercial? What can we learn from international experience?

Three presentations at the ITE-ANZ June seminar explored these questions and demonstrated the importance of context when integrating transportation facilities into new developments. See the video links to their presentations, and read on for key insights from their presentations.

- **Chris De Gruyter**, Vice-Chancellor's Research Fellow, RMIT. Chris' presentation will look at how research over the last 30-40 years has accommodated multi-modal transport in trip generation studies for land use developments.
- **Kristie Currans**, Assistant Professor, Planning from the University of Arizona. Video presentation critiquing the ITE trip generation manual.
- **Kirsten Land** and **Mark Roland**, Associates, Arup. Kirsten and Mark will look at how Movement and Place could be used to deliver on identified outcomes for Transport Projects.

See Laura Aston's excellent event article here: <https://www.ite.org.au/ite-anz-june-2019-seamier-on-multi-modal-traffic-impacts-and-planning-hosted-by-pwc-melbourne/>

Marianne Richards



2019 Annual Breakfast Meeting and ITE-ANZ Annual General Meeting



On 26 February 2019, we had another very successful Annual Breakfast Meeting at the RACV City Club.

Guest speaker

The guest speaker was Melissa Horne MP, Minister for Public Transport & Minister for Ports and Freight.

A number of awards were presented and a most enjoyable time was had by all. The ITE-ANZ Annual General Meeting followed the Breakfast.

ITE-ANZ Awards presented at the President's Dinner

Undergraduate Student Award



The Undergraduate Student Award was presented by John Reid to **Jessica Athayde**, from the University of NSW.

Honours thesis – Engineering: ***Employment Centralisation and Decentralisation in Sydney: A Transport and Economic Perspective***

In pursuing her engineering career, Jessica has an interest in economic effects/influences on transport project outcomes and delivery. On top of this complex environment, the thesis also explores regional (and sub-regional) land use planning influences.

Special Award for Excellence



A Special Award for Excellence was presented by Laura Aston to **Cassandra Min**.

Cassandra is a Monash University student currently completing a double degree in Civil Engineering and Architectural Design. She is a Past President of the Monash University ITE student chapter, Transport Engineers at Monash (TEM), and has been instrumental in the overall strategic planning of the club within

Monash University, including overseeing the establishment of the Student Mentoring Program. Cassandra's interests lie in transport and traffic engineering as well as sustainability, and she hopes to pursue a career in transport in the future.

SIDRA Postgraduate Award



The SIDRA Postgraduate Award was presented by Skype to **Dr Nguyen Phuoc Quy Duy** who studied at Monash University and was awarded his PhD in 2018. His studies and published works have focussed on the impacts on travel behaviour due to congestion in and withdrawal of public transport services. Duy is now undertaking postdoctoral research at the Singapore-MIT Alliance for Research & Technology Centre. Prof Graham Currie accepted the award from Rahmi Akcelik on Duy's behalf

TEM Mentor Program

Two mentees from the first round of the TEM 2018 Mentoring Program attended the Breakfast Meeting and were presented with Certificates for completing the program during 2018.



Mihir Bhatt



Branavan Ramalingam

Certificates of Completion have been forwarded to those other mentees from the first round who were unable to be present.

International Women's Day Joint Event

On Thursday, 7 March 2019, AITPM and ITE-ANZ co-hosted a networking event at the European Bier Café in Melbourne to celebrate International Women's Day.

Key industry leaders shared their experiences and discussed how industry generally and the transport sector, in particular, are working towards achieving gender equality. Speakers included:

- **Ben Wood** -Director, People Purpose Performance at Calibre
- **Josie Fielding** – Media Manager, Brisbane Lions
- **Kate Borg** – Major Projects Executive, WSP

Marianne Richards

OTHER TRANSPORT EVENTS FOR 2019

Joint ITE International and Texas District Annual Meeting and Exhibit

Transportation Transformed



Date: Sunday, 26 May – Wednesday, 29 May 2019

Venue: Austin, Texas, USA

The ITE Annual Meeting will be held in Austin, Texas between 21 and 24 July 2019 and will be co-ordinated with the 75th anniversary of ITE's Texas District.

Join more than 1,500 transport professionals at the Hilton Austin in Austin, Texas, USA, in July to gain insight from industry thought leaders, to share your expertise and to take advantage of networking opportunities.

This year's theme recognises the profound change that our industry is currently facing and will be moving forward. The program for the National Rural ITS (NRITS) Annual Conference will be integrated into this meeting, bringing an additional dimension to an already well-crafted technical program, rich with subject matter related to the transport industry.

Here is a sneak peek at the program sessions as well as some not-to-be-missed meeting activities:

- Transportation Systems Management and Operations (TSMO) Breakthroughs for Cities, Counties, and metropolitan planning organizations (MPOs)
- Rural Traffic and Safety Management
- Curbs and Hubs: Who Manages the New Frontier?
- The Future of Bike Signals and Pedestrian Detection Systems
- Bringing V2X to the Lone Star State: Landmark Deployments and Initiatives in Texas
- Generation Z – The Fortnite Evolution
- Vision Zero and the Safe Systems Approach
- National Towards Zero Deaths (TZD) Strategy: Road Map to Implementation Workshop
- Ethics and Social Justice in a Transformative Time Workshop
- ITE STEM Activity Day
- Student and Faculty Leadership Forum

For more information, visit: <https://www.ite.org/events-meetings/2019-joint-ite-international-and-texas-district-annual-meeting-and-exhibit/>

International Conference on Transport & Health – ICTH 2019-Melbourne

Date: 4 – 8 November 2019

Venue: Pullman Melbourne on the Park, Melbourne, Australia

Smart Cities. Disruptive Mobility. Healthy People

ITE is involved with the International Professional Association for Transport & Health (IPATH) through the ITE Transportation and Health Task Force steering committee. ITE-ANZ is represented on the **ICTH 2019-Melbourne** conference planning committee.

ICTH 2019-Melbourne aims to provide valuable insights into the health impacts of technological disruptions in transport and urban planning, governance, strategic and policy decision-making, performance tools and the potential return on investment of a dynamic system. The overall theme of the conference will highlight emerging issues of smart cities and disruptive mobility; however, the primary focus is the impact of transport (and urban/rural) planning and design on quality of life, health and well-being in communities.

Preliminary Program and Registration

A Preliminary Programme is now available. If you are interested in attending in Melbourne, please visit this website for further information and registration:

- <https://www.tphlink.com/ict-2019---melbourne.html>

Early registration is now available – Deadline for early registration: Friday, 30 August 2019

- <https://www.tphlink.com/early-registration.html>

ICTH 2019 - Melbourne is a product of the [Transportation Public Health Link \(TPH Link\)](#) and is organized through a collaborative partnership of the following:



International Professional Association for Transport & Health



**Smart Cities Research Institute
Swinburne University of Technology**

Marianne Richards

ITE GLOBAL DISTRICT

I have recently been working with one of the Leadership ITE groups based in North America but undertaking a project as part of the LITE programme to assist with the development of the Global District. It has been extremely refreshing (and challenging at the same time) to work with these emerging leaders from within ITE across Canada and the US and hear their interest in and desire for ITE to take the next steps towards a better global representation. Despite what we may think from this part of the ITE Global District there are numerous North America-based ITE members who are looking to lessons shared across the global transportation community.

Look out for some of these next steps in our Global District over coming months – alongside some changes in the District leadership too!

International Board of Direction meeting: 6 – 8 May 2019

The International Board of Direction was held in New Haven, Connecticut and co-ordinated with the Northeast District Meeting.

The May (northern hemisphere “spring”) meeting of the International Board represented another key milestone achievement of the OneITE process – confirming the transition arrangements for the formation of a completely new district, the Mountain district comprising the USA states of Nevada, Utah, Colorado, Montana, Wyoming, Idaho, Arizona and New Mexico. These states were previously part of a much larger Western district. The International Board had decided at its August 2018 meeting to develop at least one new district to assist with greater representation of members across each of the districts, and to also enable a greater consistency between sections and chapters through ITE. A transition board has been established for the new Mountain district and a similar transition board for the reformed Western district comprising California, Oregon, Washington, Alaska and Hawaii.



One of the current Western District International Directors and resident of Hawaii, Cathy Leong, highlighted to me the proposed Western District annual meeting that will be held in Hawaii during July 2021. This is a great opportunity close to New Zealand and Australia for ITE-ANZ members to join in a District meeting, potentially contribute some technical presentations from ITE-ANZ and get some ideas as to a possible format for a Global District or ITE-ANZ Section meeting to be hosted in Australia or New Zealand some time over the next several years. Something for the ITE-ANZ section board to be considering!

An overarching theme of several of the ITE districts reporting to the International Board was the great energy being put into student and young member initiatives - ITE-ANZ is no exception. I reported on the activity and enthusiasm expressed by the ITE-ANZ Young Member Committee (thanks to Ruw and Matt) as well as the significant development taking place around forming new student chapters at Monash (been going for a couple of years now), Canterbury in NZ, University of Sydney, University of Melbourne, and Victoria University of Technology. As with many of the student chapters throughout ITE, these form the first experience of ITE for many transportation professionals and are seen by the International Board as the future of ITE. Keep up the good work!

Overall, there was a great deal of interest and enthusiasm from the whole International Board (and ITE Headquarters staff) as to the activities of ITE-ANZ and a real interest in what more can be done within the global ITE organisation to help recognise and support ITE-ANZ. I am very keen to hear any thoughts or ideas from any of you around how we can help promote and share what we're doing on this side of the ITE globe. Please send any ideas or suggestions through to either members of our Section Executive or to me directly at don.mckenzie@stantec.com

ITE Annual Meeting 2019

The ITE Annual Meeting is gearing up to occur in Austin, Texas between 21 and 24 July 2019 and is being co-ordinated with a 75th anniversary of ITE's Texas District. See <https://www.ite.org/events-meetings/2019-joint-ite-international-and-texas-district-annual-meeting-and-exhibit/>

Elected Leadership



I trust that you all took the opportunity to read the candidate profiles and cast your ballot for the ITE International President process last month.

I am pleased to record that the role of Vice President elect (for 2020) will be Alyssa Reynolds from Nevada. Alyssa has been active within the Nevada Section, Western District and at the International Board level (she also has family connections to Perth so there is maybe a little ITE-ANZ showing too). She is keen to advance the interests of the Global District and our ITE-ANZ Section – so look out for what she has to say and we'll hopefully see her in Australasia during 2020!

Student Chapters

David Mitchell the New Zealand representative on the ITE-ANZ Executive and I have been working closely with the University of Canterbury to develop and finalise the Charter and By-laws for the formation of the newest Student Chapter to be referred to as the UCTrans Student Chapter. This will be NZ's first Student Chapter and will help to encourage others at the University of Auckland to follow suit and develop a Chapter there soon.

Feel free to contact me to discuss anything at don.mckenzie@stantec.com

Don McKenzie, ITE Global District Director



ITE WORLDWIDE LEARNING OPPORTUNITIES PROGRAM

Annual ITE Meeting – Danielle Rebbechi



Danielle Rebbechi (left) being congratulated by Louise Baldwin from Austraffic

Congratulations to Danielle Rebbechi for receiving an Austraffic Worldwide Learning Opportunities grant to attend the Annual ITE Meeting in Austin Texas in July.

Danielle is a Graduate Transport Engineer at SMEC Australia in the Melbourne Office and Secretary of the YoungITE Committee. She is passionate about the transportation industry and is a keen advocate for young people contributing to the profession through fresh, innovative ideas.

She has been involved in the ITE-ANZ for over a year, taking on the role of Interstate Representative Liaison and Speaker Liaison as part of the organizing committee for the inaugural Student Leadership Summit (SLS). She has also taken on an active role within the ITE, assisting in the organization of 2019 seminars. Danielle is looking forward to exploring opportunities with her fellow committee members to assist young professionals and students to make a significant contribution to the profession.

Marianne Richards

ITE-ANZ COMMUNITY

New South Wales

NSW Government portfolio and agency changes

Following the NSW State Election in March, the re-elected Coalition government under Premier Gladys Berejiklian has announced its key policy priorities, new Cabinet line-up and machinery of government changes.

The key policy priorities are:

- A strong economy, quality jobs and job security for workers of today and tomorrow;
- Highest quality education no matter where you live or what your circumstances may be;
- Well-connected communities with quality local environments;
- Making Government work better for you by putting the customer at the centre of everything we do; and,
- Breaking the cycle of intergenerational disadvantage by fixing problems that have been in the too-hard basket for too long.

The new Cabinet team will be focused on delivering real benefits to families and individuals across NSW. The Premier said the Cabinet is focused on outcomes and will deliver positive improvements to the lives of people in the cities and the regions. New ministers include:

- The Honourable Andrew James Constance MP, Minister for Transport and Roads
- The Honourable Paul Lawrence Toole MP, Minister for Regional Transport and Roads
- The Honourable Robert Gordon Stokes MP, Minister for Planning and Public Spaces
- The Honourable Matthew John Kean MP, Minister for Energy and Environment

From 1 July 2019, eight department clusters will deliver the work of the government. Of relevance to the transport industry are the **Planning, Industry and Environment** and the **Transport** sectors.

Planning, Industry and Environment (Secretary Jim Betts)

The Planning, Industry and Environment cluster brings together the functions from the former Planning & Environment and Industry clusters. The new cluster will drive greater levels of integration and efficiency across key areas, such as:

- long-term planning
- precincts
- infrastructure priorities
- open space
- the environment
- natural resources - land, water, mining
- energy
- growing our industries.

Transport (Secretary of Transport, Rodd Staples)

The Transport cluster will continue to evolve through further streamlining and integration across all modes of transport. An integrated model focused on urban and regional customers and the communities where people live and work.

The work of the cluster will provide for greater focus on all modes of regional transport, and greater alignment of urban transport. Customers and the community will experience the full integration of every area of transport under a single and unified transport banner. Transport for NSW as the lead agency will bring in the functions of Roads and Maritime Services (RMS). RMS will cease as a separate agency.

More information:

- <https://www.nsw.gov.au/your-government/the-premier/media-releases-from-the-premier/third-term-to-deliver-for-all-across-nsw/>
- <https://www.nsw.gov.au/news-and-events/news/premier-announces-new-cabinet/>
- <https://www.dpc.nsw.gov.au/tools-and-resources/machinery-of-government/>

Sydney Metro to Open in Mid-2019

From mid-2019, the Sydney Metro North West Line will be operational, with services from Rouse Hill to Chatswood. During peak hour, services will run every four minutes and be fully integrated into the Sydney Trains network.

The Metro will be Australia's first fully automated driverless passenger railway system and will be operated and constantly monitored from an operations control centre. Accessibility and safety are at the forefront of the new Metro, with level access between platforms and trains, improved access for those with disabilities, and platform screen doors to create a continuous barrier between platforms and tracks.

Read more about the Metro at <https://transportnsw.info/metro>



Fast Rail Future

The NSW Government has a vision for vibrant and growing regional economies, with four potential routes identified as the starting point for investigation into an NSW fast rail network. These include the Northern Corridor (towards Port Macquarie), Western Corridor (to Orange), Southern Inland Corridor (to Canberra) and Southern Coastal Corridor (to Nowra).

The NSW Government has appointed Professor Andrew McNaughton to lead an expert panel to provide advice to the Premier and Deputy Premier. Professor McNaughton has more than 45 years' experience working on rail infrastructure projects. He is a Strategic Adviser to the United Kingdom's High Speed 2 project and previously served as Technical Director from its inception.

The short to medium foci will include upgrades and optimisation of existing rail routes and new fleet, with services of at least 200 km/h and the medium to long-term focus centred on dedicated high-speed rail, with new lines and routes, and possible speeds of over 250 km/h.

Read more about the vision and the 20-Year Economic Vision for Regional NSW at:

- <https://www.nsw.gov.au/improving-nsw/projects-and-initiatives/a-fast-rail-future-for-nsw/>

Western Sydney Airport

Construction of Western Sydney International Airport is now underway with the airport to be operational from 2026. The Airport, officially named Western Sydney International (Nancy-Bird Walton) Airport, is a transformational infrastructure project that will generate economic activity, provide employment opportunities closer to home for people in the Western Sydney region and meet Sydney's growing aviation needs.

The airport is expected to support almost 28,000 direct and indirect jobs by 2031, five years after it opens. The Western Sydney Airport will be a catalyst for the proposed Westmead Health, Education and Research Precinct, with the potential to accommodate a new university campus with up to 30,000 new jobs in the next 20 years, generating an additional \$4.5 billion in economic output.

Read more about the project at:

- <https://www.westernsydneyairport.gov.au/>; and
- <https://www.planning.nsw.gov.au/Plans-for-your-area/Priority-Growth-Areas-and-Precincts/Westmead>.

New Gas Terminal at Port Kembla



The NSW Government has given planning approval for Australian Industrial Energy to construct the gas terminal at Port Kembla.

The new terminal will accommodate Liquefied Natural Gas (LNG) carrier ships, a floating LNG handling facility, wharf infrastructure and a pipeline to connect to the existing NSW east coast gas network nearby.

Once operational, the terminal could supply 70 per cent of the state's annual gas demand and help to ease the cost of energy bills for the 33,000 businesses and a million households in NSW that depend on natural gas.

With the creation of 150 jobs during construction and up to 50 ongoing roles once operational, the terminal is also a major boost for the economy.

The NSW Government assessed the environmental, social and economic impacts identified by community, government and independent stakeholders. Planning approval for the terminal includes conditions to:

- manage impacts during the construction of the import terminal, including excavation and dredging activities in Port Kembla harbour and management of contaminated materials and acid sulphate soils
- manage hazards and risks associated with the operation of the LNG import facility and gas pipeline
- regulate and monitor air and water discharges from the project during construction and operations.

Minister for Energy and Environment Matt Kean said the Port Kembla gas terminal will be a game-changer for improving energy security and helping to ease energy costs.

“It could support gas-fired electricity generation in NSW and help make sure we have reliable electricity.”

<https://www.nsw.gov.au/news-and-events/news/port-kembla-gas-terminal-gets-planning-approval/>

New Laws for Motorists driving under the influence of drugs and alcohol.

From May 2019, drink drivers who are first-time, lower range offenders will receive an immediate three-month licence suspension and a fine of \$561.

Under the new laws, simpler and more certain penalties will also apply for drug drivers. Offenders who drive with the presence of illicit drugs for the first time will receive a \$561 fine and a three-month licence suspension if the offence is confirmed by laboratory analysis.

Alcohol-related crashes claimed the lives of at least 68 people on NSW roads in 2018, accounting for nearly one in five road deaths, including 55 lives lost on country roads. Fatalities from crashes involving a drug driver accounted for similar numbers of deaths.

Minister for Transport and Roads, Andrew Constance, said this reform makes it clear if you break the law, you will pay the price. NSW is taking a zero-tolerance approach to drink and drug driving.

- [Find out about drink driving penalties in NSW](#)
- <https://www.nsw.gov.au/news-and-events/news/all-drink-drivers-to-lose-their-licence-on-the-spot/>

WestConnex M4 East to open in August 2019:

More than three years after construction began, the 7 kilometre M4 East section of the WestConnex project between Homebush and Haberfield is almost complete and set to be operating by August. This section includes twin 5.5 kilometre tunnels.

There has been concern in the media that the project’s legal requirement as part of its 2016 planning approval to provide two dedicated lanes along Parramatta Road solely for public transport will not be met by the anticipated August opening and there is as yet no indication of measures to improve public transport along the corridor more generally.

- <https://www.nsw.gov.au/your-government/the-premier/media-releases-from-the-premier/new-m4-tunnels-one-step-closer/>

-
- <https://www.smh.com.au/national/nsw/clearly-in-breach-westconnex-public-transport-conditions-not-met-20190414-p51dzv.html>

News on technology/innovation:

- MaaS trial in Sydney – using an app-based setting, this project will enrol participants in a six month trial. Eligible participants, who work, live, and travel in the Greater Sydney area will arrange their everyday travel needs through a MaaS app (a customised version of Skedgo’s TripGo) linked to subscription plans. The plans will give participants access to public transport (including train, tram, ferry, and bus) and a large portfolio of car-based transport services (e.g. taxi and car rental, Uber, Car Next Door, and GoGet).

<https://imovecrc.com/project/maas-trial-sydney/>

- University of Sydney explored the misconceptions surrounding optically guided busses, aka, trackless trams:

<https://sydney.edu.au/business/news-and-events/news/2019/01/21/debunking-the-myths-around-optically-guided-bus--trackless-trams.html>

Eric Ye and Sarah Zhang

South Australia

Northern Connector Project



The \$885 million Northern Connector will be a six-lane, 15.5 kilometre motorway providing a vital freight and commuter link between the Northern Expressway, the South Road Superway and the Port River Expressway.

This project will focus on delivering economic benefits to the local South Australian community including creating 480 full-time equivalent jobs each year during construction.

- At least 50% of all jobs to be filled by northern suburbs residents.
- At least 90% of on-site labour hours to be undertaken by South Australians.
- At least 20% of all on-site labour hours to be undertaken by ex-automotive industry workers, Aboriginal people, people facing barriers to employment and trainees and apprentices.

The Australian Government has committed \$708 million to the project, with \$177 million from the South Australian Government.

The project is currently on target for a scheduled completion in late 2019.

For further information and video fly-through, visit:

https://dpti.sa.gov.au/infrastructure/nsc/northern_connector



Autonomous Bus and Smart Transit Hub Trial at Glenelg

On 17 January 2019, the South Australian Government announced the launch of a trial of a new hi-tech autonomous bus and smart transit hub which will improve transport options and real-time accessible information at one of Adelaide’s most popular locations – Glenelg. The initial trial will be for 6 months.

Local Motors, an American vehicle manufacturing company, has partnered with local company, SAGE Automation, to conduct a last mile driverless shuttle and interactive transportable bus stop trial at Holdfast Bay. The trial will utilise the Local Motors Olli Shuttle and the SAGE designed and manufactured smart transit hubs providing a fully connected first of its kind connected autonomous bus and bus stop platform.

Local Motors will receive up to \$500,000 and SAGE Automation will receive up to \$200,000 from the South Australian Government’s Future Mobility Lab Fund to conduct the last mile shuttle and bus stop trial.



The “Olli shuttle” is a driverless, electric vehicle, which travels from Mosely Square in Glenelg to the Broadway Kiosk and back, supported by two transit hubs called “Matilda”. The bus can take up to eight people at once and the transit hubs offer smart integrated technology to commuters.

Olli and Matilda have an on-board human machine interface and cognition which allows them to ‘talk’ to and interact with passengers, providing information about the vehicle and its surrounds.

The Matilda hub is solar powered, includes the latest IBM Watson interface with interactive displays and audio system, allowing for a personalised user experience particularly for disabled and ageing as well as wheelchair access. The Olli shuttle and Matilda will serve tourists and the local community providing the opportunity to experience autonomous vehicle technology, as well as providing valuable learnings on on-demand transport.

Further information:

- <https://dpti.sa.gov.au/news?a=422018>
- <https://premier.sa.gov.au/news/new-autonomous-bus-and-intelligent-transit-hub-launched-at-glenelg>
- https://www.youtube.com/watch?time_continue=89&v=iqtrHKMTBGk

State Government tender for on-demand bus operators

In early May 2019, the South Australian Government released a tender asking for an operator to offer an on-demand bus service.

Uber-style buses, that would link passengers in low patronage areas to public transport could soon be roaming Adelaide. It is a further push to a public transport model that would encourage passengers to jump on and off multiple forms of public transport to get to their destinations. The government is hopeful the on-demand service could also plug gaps in the system where traditional buses, trains or trams are not practical for cross-city trips or other points of interest like shopping centres.



The system is based on a New South Wales trial being undertaken in 24 urban and regional locations, that allows passengers to book a vehicle for pick up from either home or a nearby location, and take them to a local transport hub or point of interest. In NSW the passengers using the trial can book through an app, online or by phone.

In announcing the tender, the Minister for Transport, Infrastructure and Local Government, Stephan Knoll MP, noted that people are continually wanting greater flexibility and mobility to get them where they need to go. Demand responsive transport trials provide an opportunity to better integrate our different modes of public transport

General overhaul of public transport

The tender is a further step in the State Government's overhaul of public transport in South Australia in a bid to address declining patronage across the state. It follows the first of two tenders for operation of the metropolitan bus system released a few weeks earlier.

The State Government intends to overhaul public transport, cutting less frequented bus routes and introducing on demand services.

The State Opposition leader, Peter Malinauskas MP, has questioned whether the State Government's strategy would work in Adelaide.

"Forcing bus passengers to transfer to another service will not reverse declining patronage and get commuters to their destination faster," he said,

"It will only make travel times longer and disproportionately affect people with a disability and elderly South Australians."

The State Government announced \$46 million in cuts for the public transport system in last year's State Budget.

- About 1170 bus services are to be axed or shortened as part of the State Government's bid to claw back about \$46 million in efficiencies by 2022.
- Reductions to bus routes are set to save the Budget \$3.5 million, a fraction of the overall cuts.
- A key part of the lucrative contracts – expected to cost taxpayers \$1.5 billion over eight years – would be that operators work within a system whereby commuters could be forced to hop between buses, trains and trams to speed-up travel times.

At the time, Mr Knoll said only "incremental" changes had been made to the public transport network over the past 20 years. At around 8%, Adelaide has one of the lowest rates of public transport usage in the country and the highest percentage of people who choose to drive to work of any capital city. He also noted that the city also has the worst level of integration between the different modes of public transport.

Media release:

- <https://premier.sa.gov.au/news/public-transport-reforms-step-up-a-gear-with-demand-responsive-transport-trials>

Peter Doupé

Tasmania

No report

Victoria

A New Department of Transport and Secretary

The establishment of Transport for Victoria in 2017 was an important reform to integrate operations and strategic thinking.

The Department of Transport (DoT) was established on 1 January 2019 to design, plan, build and run transport so it works well today and in the future. DoT brings together agencies from ports to fisheries and the operators and regulators of public transport and roads to get more out of existing infrastructure and to integrate the transport network so everyone's journeys can be safer, simpler and quicker.

DoT's work supports three ministers, spans seven portfolios and operates across metropolitan and regional offices.

Victoria is facing unprecedented growth and change and DoT is responsible for delivering the biggest infrastructure program Victoria has ever seen, including:

- [Removing dangerous level crossings](#),
- [Upgrading major roads across Victoria](#),
- [Building the metro rail tunnel](#) to unlock the bottleneck in the city loop,
- Working to [upgrade every regional rail line](#),
- [Building the West Gate Tunnel](#) and
- [Developing the Airport Rail Link](#).

Paul Younis, Secretary, Department of Transport

Paul Younis was appointed Secretary of the Department of Transport on 26 March 2019.



Mr Younis, who had been acting in the role since the Department was created on 1 January 2019, was Deputy Head of Transport for Victoria (2017-2019) where he steered the planning and coordination of key transport projects.

Originally from Victoria's south-west, Mr Younis has extensive experience in running regional and metropolitan councils and infrastructure projects.

The Secretary also holds the position of Acting Head, Transport for Victoria - a statutory office established under the *Transport Integration Act 2010*. The Acting Head plays a key strategic role in ensuring Victoria's growing transport system is integrated and coordinated.

Further information

- The Department of Transport website provides a comprehensive list of ongoing and scheduled projects.
Visit <https://transport.vic.gov.au/our-transport-future/our-projects>
- The timelines for various infrastructure projects are available <https://bigbuild.vic.gov.au/projects>.
- Public transport network/service project updates are also available at <https://classic.ptv.vic.gov.au/projects/>

Marianne Richards

WA, ACT, QLD, NT

We are looking for correspondents from other jurisdictions to let everyone know what is happening. If you can help out, please contact us via the contact details at the end of this newsletter.

Marianne Richards

New Zealand

Auckland City Rail Link

The Auckland City Rail Link, which extends the end of the current line into the centre of the city into a loop route, reducing some travel times by 20-25minutes, has hit a snag, with a budget blow out from the original \$3.4B to \$4.4B. This has resulted from some scope changes, but also increased overall costs. The additional cost is being split between central and local government.

Driving and active transport modes behaviour

A recent study has highlighted concerns around NZ's driving and active modes behaviour. The study, *Turning the Tide - from Cars to Active Transport*, undertaken by the University of Otago, showed that, nationally, the only mode of transport that increased its share between 1988 and 2014 was car use. A recent Ministry of Transport survey showed no abatement in this trend. This trend to use our cars over other means of transport has resulted in rapid growth in the number of kilometres driven by New Zealanders since 2013. Transport contributes to around 20% of NZ's greenhouse gases. At the same time, the average time New Zealanders walk for transport has dropped from 10 minutes to 8 minutes per day.

The authors are calling on national and local governments to set targets for the proportion of trips made on foot, by bicycle and by public transport, including national targets of:

- Doubling the proportion of trips walked to 25 per cent by 2050.
- Doubling the proportion of cycling trips in each of the next decades, with the ultimate goal of 15 per cent of all trips being on bicycles by 2050.
- Increasing the proportion of all trips by public transport to 15 per cent by 2050.

No word yet on actions coming from the study, which was only completed in April this year.

To read the full report, visit <https://www.otago.ac.nz/active-living/otago710135.pdf>

Electric vehicles

And finally, if you love your EV, then Dunedin is the place to be. Dunedin now has more EV's per capita than any city in NZ (3.73 per 1000 people), taking over the top spot from Wellington (3.19 per 1000 people).

David Mitchell

ITE-ANZ YOUNG MEMBER AND STUDENT ACTIVITIES

Young Members

Within the last month, ITE-ANZ has been thrilled to see the excitement and enthusiasm surrounding the formation of a Young Members Committee.



The first of its kind for ITE-ANZ, the vision is for the new committee to spearhead all young member activities and development opportunities and to provide a unique forum for networking and collaboration.

Elections are scheduled to take place on Wednesday, 15 May 2019 at 5:30pm at the Aurecon Centre, Docklands. ITE-ANZ encourages all members aged 35 years or younger to attend and show your support for this new initiative by taking part in the voting process. It will present a great opportunity to meet the inducted committee and to engage in networking with fellow young professionals. Pizza and soft drinks will be provided. For any queries, please feel free to get in touch with Matt Bennett at iteanzsls18@gmail.com.

For all general questions, enquiries and further information, please email Young ITE at iteanzsls18@gmail.com

Ruw Palapathwala and Matthew Bennett

Monash Student Chapter Update



Who are we?

Transport Engineers at Monash (TEM) is a dedicated transport engineering club for Monash Engineering students. We aim to bridge the gap between students and the industry.

Upcoming Event: Semester 1 TEM-ITE Lunchtime Talk – Wednesday 15 May 2019



Following the success of the lunchtime talks held on Monash University Clayton campus last year, TEM is again working together with ITE-ANZ to organize another session for Semester 1 on Wednesday 15 May 2019.

The afternoon will include a variety of speakers from the transport industry to share their experience, current insights in the field and give invaluable advice to budding professionals. An ideal opportunity to learn about future careers, grow your network and enjoy some lunch together.

2019 Mentoring Program Induction Night – Round 1



We are pleased to have commenced another round of our mentoring program this year!

During the induction night held at Aurecon on Thursday, 4 April 2019, students had the pleasure of listening to program mentors on their profiles and the opportunity to know how to best embark on this exciting program. This was followed by refreshments and a time to socialize with one another.

We hope that both mentors and mentees will continue to enjoy their time and be greatly enriched in their following sessions together!

Semester 1 BBQ



TEM held a casual barbecue at Monash University during Week 3 at the Kenneth Hunt Lawn. The sausages ran out rather quickly!

It was great to meet and get to know plenty of new faces that are interested in the field of transport. We look forward to seeing TEM members and friends again in our upcoming events this year.

Jeyashivraj Parthiban, TEM President
Branavan Ramalingam, TEM ITE Liaison

University of Sydney Student Chapter Update

No update from the University of Sydney for this Quarter.

Eric Ye

WHERE IN THE WORLD?

The photograph on the front cover shows road signage at Dinner Plain, Victoria.



Dinner Plain is located on the Great Alpine Road, 13 kilometres from Mount Hotham Alpine Resort, and 375 kilometres from Melbourne. At the 2016 census, Dinner Plain had a population of 230, yet has over 200 lodges and chalets for tourist accommodation.

Do you have a mystery photograph relevant to the transport sector? Any more photo contributions are more than welcome.

If you would like to share your photograph, email please send it to secretary@ite.org.au

WEBMASTER

Read something interesting lately that you would like to share with the wider transportation community?

Arash Fatemi is the new ITE-ANZ webmaster and he is eager to share high quality and interesting news via the ITE-ANZ website.

If you find something worth sharing, or would like to make an original contribution, email Arash at: iteanzsls18.web@gmail.com

Arash Fatemi

MEMBERSHIP

As a member of ITE, you join a dynamic, interactive group of more than 17,000 transportation professionals spanning more than 90 countries dedicated to solving today's transport challenges. Join ITE to increase your professional marketability and stand out from the crowd. ITE provides a wealth of resources for the transport professional.



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- Did you know that individual membership with ITE costs only US\$210 a year?
 - For students, membership is free in the first year and then only \$30 per year!
 - Young Members up to age of 30 now also receive reduced dues.

We would like to have more young people on our ITE-ANZ management committee, so why not join the ITE and then consider coming onto the committee! Further details of dues for young professionals can be found at this webpage - [Students and Young Professionals](#)

The general rule for ITE membership is as follows. To be eligible for admission or transfer to the grade of Member, an applicant:

9. Shall be a graduate from a transportation related program at a school of recognized standing and in the active practice of transportation or traffic work; or shall have had:
10. If not a graduate from a transportation related program at a school of recognized standing shall have five years of professional experience and shall be in transportation or traffic engineering work.

You can join up directly online through this webpage - [ITE Membership](#).

ITE-ANZ NEWSLETTER CONTACTS

If you would like to contribute something of interest to transport professionals in a future newsletter, please send it to secretary@ite.org.au.

If you do not wish to receive future newsletters, send an email with the subject *"Unsubscribe Newsletter"* to secretary@ite.org.au

Registered Office:	ITE Australia & New Zealand Inc. PO Box 3016 AUBURN, VICTORIA, 3123
ITE-ANZ Secretary:	David Nash
Telephone:	0400 395 132
Email:	secretary@ite.org.au
Website:	www.ite.org.au
Newsletter editor:	Marianne Richards