



Timings

1. Preferred and alternate dates

Engineers Australia (EA) propose that the World Engineers Convention 2019 (WEC) is held in conjunction with the Engineers Australia National Convention from the 17th – 22nd November 2019.

Both sets of proposed dates avoid religious dates and festivals such as Ramadan (6 May – 4 June 2019) and Eid-Al-Haj (11 August).

2. Conflict with other meetings

At the time of this bid submission, there are no other known international events being held in Melbourne and Australia that would conflict with the 2019 Convention.

3. Air fares prevailing and discounts available

25 international carriers currently operate direct to Melbourne including Qantas Airways Limited, Emirates, Etihad, Cathay Pacific, Thai, Singapore Airlines, Malaysia Airlines, Korean Air, Qatar Airways, Royal Brunei, China Eastern, China Southern Airlines, Garuda Indonesia, Air New Zealand, Air Asia X, Jetstar, Virgin Australia, Air China, Air Vanuatu, Air Pacific, Air Mauritius, Norfolk Air, Philippine Airlines, Vietnam Airlines and United Airlines. In total, there are approximately 585 international flights to and from Melbourne each week and 3,200 domestic flights.

Melbourne Airport offers no airport curfew, a foreign language welcome desk, 24/7 wheelchair assist service, easy transfers (single international and domestic terminal precinct), disabled access throughout and a dedicated groups arrivals desk. There is no additional arrival or departure tax for flights into and out of Australia.

Please refer to the following maps showing international and domestic flying times to Melbourne.

INTERNATIONAL FLYING TIMES
source: wikipedia.com



DOMESTIC FLYING TIMES



Please refer to the following table for a summary of current airfares to Melbourne from key international airport hubs. Note: all airfares are return fares and inclusive of all taxes. They are also based on a departure of 15 November 2012 and a return of 22 November 2012. Quotes were sourced from www.expedia.com.au on the 19th July 2012. 1 AUD = 1.041 USD / 0.845 EUR.

Departure Airport	Airline	Cost \$AUD	Cost \$USD	Cost €EURO
Asia/Australasia				
Singapore	Jetstar Airways	\$621	\$646	€525
Hong Kong	Virgin Atlantic/Virgin Australia	\$963	\$1,002	€814
Auckland	Jetstar Airways	\$206	\$214	€174
Kuala Lumpur	Jetstar Airways	\$771	\$803	€651
Bangkok	Jetstar Airways	\$830	\$864	€701
North America				
New York	Emirates	\$1,797	\$1,871	€1,518
San Francisco	Emirates	\$1,721	\$1,792	€1,454
Dallas	United Airlines	\$1,717	\$1,787	€1,450
Vancouver	United	\$1,714	\$1,784	€1,448
Los Angeles	China Southern Airlines	\$1,601	\$1,666	€1,353
South America				
Santiago	Qantas Airways	\$2,327	\$2,422	€1,966
Buenos Aires	United Airlines	\$2,345	\$2,441	€1,982
Europe				
London	Air China	\$1,308	\$1,362	€1,105
Frankfurt	Air China	\$1,186	\$1,235	€1,002
Paris	Air china	\$1,279	\$1,331	€1,081
United Arab Emirates				
Abu Dhabi	Qatar Airways	\$1,660	\$1,728	€1,403
Dubai	Air China	\$1,366	\$1,422	€1,154
India				
Mumbai	Malaysia Airlines	\$997	\$1,038	€842
New Delhi	China Eastern Airlines	\$961	\$1,000	€812
South Africa				
Johannesburg	South African Airways/Virgin Australia	\$1,460	\$1,520	€1,234

Qantas Airways also supports the bid from Engineers Australia to host the 2019 Convention in Melbourne, Australia. Qantas operates a network spanning 208 destinations in 46 countries, including Australia and those served by code-share partner airlines. Internationally, they operate a fleet of 12 airbus A380, 21 Boeing 747s and 14 A330s. Qantas is a member of the airline alliance oneworld. Comprised of eleven of the world's leading airlines – Qantas, airberlin, American Airlines, British Airways, Cathay Pacific, Finnair, Iberia, LAN, Japan Airlines, Royal Jordanian and S7 Airlines with member elect Malaysian to join in 2012.

For domestic Australian delegates Qantas provides a direct individual booking tool for conference travel utilising the lowest everyday fares available on Qantas. Conference On-Line is a dedicated webpage on the convention site which rewards the host organisation with one complimentary domestic airfare for every fifty airfares sold via this portal. International delegates can go on-line to Qantas.com to discover the suite of highly competitive airfares including tactical sales fares.

Please refer to the letter of support from Qantas Airways Ltd.

Visa assistance/requirements: Australia's Electronic Travel Authority (ETA) is the world's most advanced and streamlined travel authorisation system. It provides instant, online applications for over 30 countries and has no visa application charge (other than a \$AUD20 service fee). Those countries not eligible for an ETA should apply for a Business (Short Stay) visa (Subclass 456).

The International Event Coordinator Network (IECN) is a Federal Government Department established to fast track business and convention visas. Engineers Australia will work in conjunction with the IECN to ensure a smooth visa application process for all. Further information is available at: www.immi.gov.au

4. Length of convention and relation to other events

The intended structure of dates and events are similar to other previous WFEO World Engineers events :

- Sunday 17 November: WFEO technical Committee Meetings and Young Engineers World Youth Forum
- Monday 18 November: WFEO Technical Committee Meetings (continue), WEC 2019 Welcome Reception
- Tuesday 19 November: Main convention program commences, Young Engineers Networking Function and key VIP and Keynote Dinner (evening)
- Wednesday 20 November: Main convention program continues, Executive Council meeting, WEC 2019 Gala Ball (evening)
- Thursday 21 November: Main convention program concludes, WFEO General Assembly commences and WFEO Dinner
- Friday 22 November: WFEO General Assembly concludes, Closing Ceremony, Executive Council meeting.

5. Climate

November in Melbourne is Spring. The average daily temperature will be approximately 20°C / 67°F with minimal rainfall.

Proposed Host Country

1. Equality of treatment with respect to race, sex, colour, religion and national origin

Melbourne is one of the most cosmopolitan and multicultural cities in the world.

The 2006 Victorian Census demonstrated that 23.8% of Victorians were born overseas in more than 230 countries and 68.7% of Victorians followed over 130 religions.

Melbourne can cater for all delegate requirements (dietary, language, religious etc.).

2. Political stability

Australia is regarded as having a very low risk of political instability. In fact, Australia ranked third in the world for political stability in the IMD World Competitiveness Yearbook 2010.

Australia is a constitutional democracy based on a federal division of powers. This has provided for a very stable government in Australia.

3. Economic stability

Australia is a CRT-1 country with very low levels of economic, political and financial system risk. The Australian economy has experienced 17 years of uninterrupted economic expansion. In fact, Australia was the only Western economy to achieve growth during the recent Global Financial Crisis. According to the World Bank, Australia's business environment is in the top ten in the world in terms of ease of doing business.

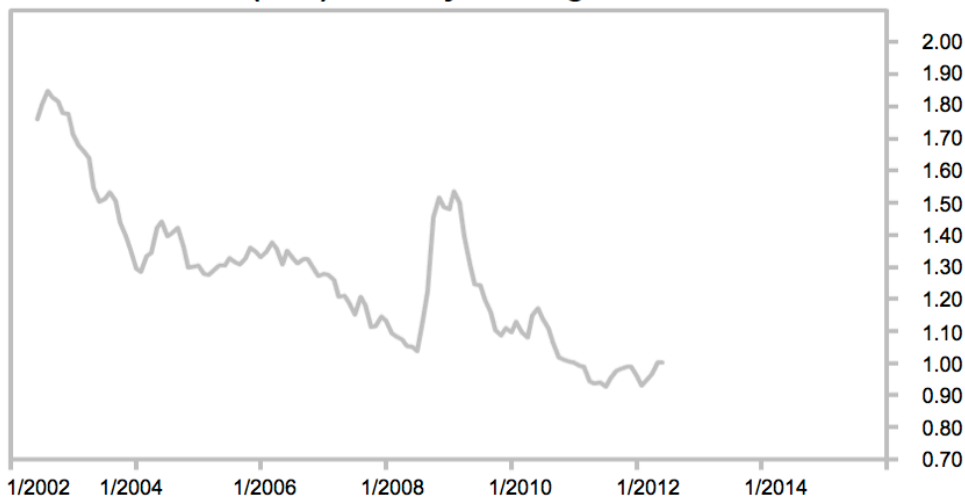
Melbourne was rated as the 'World's Most Liveable City' (The Economist Intelligence Unit 2011), the fourth time in ten years.

4. Currency stability and convertibility

The Australian Dollar is the currency of the Commonwealth of Australia. Within Australia, it is always abbreviated with the dollar sign (\$). It is sub-divided into 100 cents.

The Australian dollar is currently the sixth most traded currency in the world foreign exchange markets, accounting for over 6% of worldwide foreign-exchange transactions. The Australian dollar is popular with currency traders due to the relative freedom of the foreign exchange market from Government intervention and the general stability of Australia's economy and political system. The table below illustrates the United States Dollar (USD) against the Australian Dollar (AUD) over a 10 year period (i.e. the value of 1\$USD over the 10 year period).

Australian Dollar (AUD) Currency Exchange Rate - 10 Year Chart



5. Public transport/infrastructure

Getting around Melbourne

Melbourne is a great walking city with the Melbourne Convention & Exhibition Centre located within easy walking distance to hotels, restaurants, cafés and shopping. For delegates who want to use public transport, there are many easy and accessible options:

- Free City Circle Tourist Tram
- Free Tourist Shuttle Bus (wheelchair accessible)
- Metropolitan Trams and Trains (wheelchair accessible)
- Bus Services (over 50% are wheelchair accessible).

In support of Melbourne's bid to host the 2019 Convention, the Victorian Department of Transport welcomes the opportunity to work with Engineers Australia on an integrated ticketing solution, whereby public transport travel could be incorporated into convention registrations to provide transport at no cost to the delegates. Integrated ticketing can be arranged via a discounted rate of \$AUD2.60 (2012 rate) per delegate per day for unlimited daily travel within zones 1 & 2. This represents a 77% discount on a full fare daily zone 1 & 2 ticket and includes travel on trains, trams and buses in the city and suburban areas of Melbourne.

Airport to hotel transportation

Skybus operates an express bus service to the city operating 24/7, every 10 minutes from the front of the Melbourne International and Domestic Terminals to Southern Cross Station in the heart of the city centre. There are then free transfers from Southern Cross to all city centre hotels. The journey time is 20 minutes and the current adult one-way fare is \$AUD16 (\$USD17 / €EUR14). The fleet is 100% enhanced with mobility impaired access and is a carbon neutral service. Tickets can be purchased in advance via the website or upon arrival at Melbourne Airport (payment by cash or credit card).

Alternatively, taxis are located directly outside the International and Domestic Terminals 24/7. The journey time is 20 minutes to the city centre and the approximate one-way fare is \$AUD45 (\$USD47 / €EUR14). There are over 300 wheelchair accessible taxis on the network.

6. Air safety record

There are many factors that contribute to the safety rating of an airline including, but not limited to, accident history, maintenance and operational procedures, types of training programs, age of fleet and specific routes flown. In addition there are different ways to analyse past accident data. The accident rates below are based on only three basic parameters and relate to Qantas Airways Limited (Australia's preferred airline): number of flights, the number of fatal accidents and the fatality rate of those accidents. The information was sourced from planecrashinfo.com/rates

Airline	Million Flights	Fatal Events	Adj. Fatal Events	Last Fatal Accident	Above / Below Average Accident Rate
Qantas Airways	2.74	0	0	(1951)	-374%

Proposed Theme and Speakers

1. Proposed theme of the Convention

The World Engineers Convention – WEC 2019 will be hosted by Engineers Australia in its centenary year and will be a fitting celebration and recognition of the contributions made by this professional association to the engineering profession and to the development of Australia.

The theme of the Convention is forward looking and will discuss the technologies which will have a significant impact on our lives in the future. The Convention will involve all the major Colleges which form part of Engineers Australia including Civil, Structural, Electrical, Mechanical, Chemical, Bio-medical, Information Technology and Electronics and Environmental Colleges as well as specialist groups represented by 32 technical societies. It will also embrace the activities of the Standing Technical Committees of the World Federation of Engineering Organizations (WFEO).

Some of the themes suggested for the 2019 Convention, subject to further development are:

- Renewable energy technologies
- Sustainable engineering and the environment
- Developments in information and communication technologies
- Innovation in engineering
- Engineering education
- Development of ethics in engineering and anti-corruption measures
- Engineering capacity building in developing economies
- Disaster risk management
- Support for diversity in engineering
- Development of Young Engineers as future leaders.

It is suggested that the development of the theme be worked into a competition for our 100,000 members via our significant social media network. Hinging the campaign for the theme competition on 'Innovation', members would be encouraged to collaborate and submit suggestions on a theme for the 2019 Convention.

2. Importance of the theme to world engineers

The theme of the Convention considers engineering for the future and the innovations that will be required to solve problems such as population, sustainability of cities, transportation and infrastructure and the development of new, innovative technologies; especially for information and communication.

3. Intended sources of speakers

Engineers Australia will make an international call for papers for the Convention and there will be opportunities for the standing technical committees to participate actively in the various streams of the Convention. Engineers Australia will invite 5 eminent international keynote speakers.

4. Minimum expected attendance, local and overseas

Engineers Australia anticipates a conservative estimate of 2,500 delegates will attend the WEC 2019. We anticipate a minimum of 500 international delegates.

5. Proposed registration fees: full and student

Member Full Registration Early : \$650
Member Full Registration Late : \$1,100
Non Member Full Registration Early : \$950
Non Member Full Registration Late : \$1,250
Student/Young Engineer/Developing Country Full Registration : \$450
Member Day Registration : \$450
Non Member Day Registration: \$550
Student Day Registration : \$350

A list of developing countries with access to reduce registration will be identified.

6. Working language

The working language of the 2019 Convention will be English.

7. Plans to publish papers

Papers will be published via the Engineers Australia RMIT Informit database. This is an electronic database of papers which is accessible internationally and will provide a repository of papers in perpetuity.

8. Number of invited papers planned

Submissions are expected for up to 500 papers and 500 posters. This will be done via abstract submission and review by a panel of technical experts.

9. Plans for social program and partners program

Welcome Cocktail Reception

The welcome cocktail reception will be held in the main foyer area of the Melbourne Convention & Exhibition Centre. The foyer area has an abundance of natural light and magnificent views of the South Wharf Precinct. The in-house food and beverage team at the Melbourne Convention & Exhibition Centre will deliver a tantalising canapé style menu complemented by local Victorian wines, beer and soft drinks.

Please refer to the additional information in Annex D for other suggestions of social event venues that could be utilised in Melbourne for the social event program.

Gala Dinner

The Gala Dinner will be held at unique and highly regarded venue space within Melbourne. This will showcase the best of Australia food and wine and provide stimulating entertainment.

Partners Program

There are numerous options for the WEC Partners Program.

10. Support of federation meetings and attendance costs

All meetings, lunch and coffee breaks will be provided at no additional cost to WFEO delegates. This assumes that they will be registered to attend the Convention.

11. Support for developing country delegates

Engineers Australia will be seeking support for travel awards from UNESCO, for delegates from

developing countries. We anticipate that the Australian National Commission to UNESCO will support this application. We also anticipate that AusAID will provide support for delegates from the Asia Pacific region.

Proposed Organisation

1. **Support from National Engineering Organisations**

Engineers Australia is the national engineering organisation and the national member to WFEO. Engineers Australia will be carrying the financial risk and liability of the event.

2. **Support from other national and business organisations**

We anticipate significant support from Australia business and government organisations. There will be a significant industry exhibition which will showcase the best of Australian technology.

3. **Support from State, National or Local Government**

The Victorian State Government is extremely supportive of the bid from Engineers Australia to host the World Engineers Convention 2019 (WEC) in Melbourne, Australia.

We plan to invite the Governor General of Australia, who is a patron of Engineers Australia to open the Convention. It is anticipated that a State Government Minister of Premier will be involved in the opening of the Convention and may also attend the social events.

In addition to the above, the Melbourne Convention + Visitors Bureau (MCVB) is also supportive of the bid from Engineers Australia to host the 2019 Convention.

4. **Support from international or other national organisations**

Please refer to the attached letters of support.

5. **Financial underwriting**

Engineers Australia will financially underwrite the 2019 Convention.

6. **Technical organising group**

Via a rigorous governance model, a technical committee will be formed and led by a Chair, nominated by Engineers Australia. The technical committee will have representatives from the various streams of engineering Convention. The call for papers, review of abstracts and acceptance of papers will be managed by this committee.

7. **Management Organising Group**

Engineers Australia is the nominated National Engineering Organisation in Australia and would work with its various Engineering Colleges (8) and Technical Societies (32) to deliver the WEC 2019.

Engineers Australia will establish a WEC 2019 Management Committee, comprising of Engineers Australia staff and various contractors, to manage the Convention. The Engineers Australia National Event Manager will manage all services provided for the WFEO Conference and WEC 2019 and will liaise with the WFEO Executive Director, as required.

Engineers Australia will establish a WEC 2019 Advisory Panel to manage the overall content, structure and operations of the WFEO Conference and WEC 2019, to ensure that it meets the objectives of WFEO and Engineers Australia for the benefit of the engineering profession. The chair of the WEC 2019 Advisory Panel will liaise with the WFEO Executive Council and the

Chairs of the Standing Technical committees to ensure that the objectives of WEC 2019 are achieved.

8. Local experience with similar events

Engineers Australia runs around 5,000 events each year, across its National and State Divisions. Its National in-house events team manages over 120 major events from small award dinners, Eminent Speaker programs and workshops right through to major gala awards, 20 national and international Conferences.

A sample of confirmed major conferences, that will be hosted and managed by Engineers Australia, in the next few years include:

- International Convention of Aeronautical Sciences 2012: 1,000 delegates
- 37th Australian Conference on Optical Fibre Technology : 500 delegates
- 20th Australian Institute of Physics Congress : 500 delegates
- 15th Australian International Aerospace Congress 2013 : 600 delegates
- Asia-Pacific International Symposium and Exhibition on Electronic Magnetic Compatibility
- Radar 2013 : 300 delegates
- Society for Sustainable and Environmental Engineering 2013 : 200 delegates
- Coast & Ports 2013 : 400 delegates
- CORE 2014 : 600 delegates
- 7th International Congress on Environmental Geotechnics 2014 : 700 delegates
- International Fatigue Conference 2014 : 400 delegates

International Bids for 2020 include:

- International Federation of Automatic Control (IFAC) World Congress : 2,000 delegates
- International Conference on Coastal Engineering 2020

The table below provides some examples of past and future meetings held at the Melbourne Convention & Exhibition Centre (MCEC) demonstrating its capacity to host successful business events (sample only, not an exhaustive list).

Proven Track Record in Hosting Business Events		
Year	Meeting	Delegate #'s
2002	World Peace Conference	5,000
2003	International Congress on Genetics	2,700
2004	World Conference on Health Promotion and Health Education	2,900
2007	World Psychiatric Association Congress	4,000
2009	Parliament of the World's Religions	6,000
2010	World Congress in Internal Medicine	4,000
2010	Global Conference of the International Federation on Ageing	1,000
2010	International Air Transport Association (IATA) Schedules Conference	1,100
2010	World Science Fiction Convention	3,000
2012	7 th World Congress for NeuroRehabilitation	2,000
Future Meetings Confirmed for the Melbourne Convention & Exhibition Centre		
2012	13 th Asian and Oceanian Congress of Neurology	1,500
2012	Congress of the International Society for Photogrammetry and Remote Sensing	2,500

2013	International Congress of Pediatrics	5,000
2013	International Council of Nurses 25 th Quadrennial Congress	6,000
2013	22 nd World Diabetes Congress	12,500
2014	International Congress of the World Federation of Hemophilia	3,400
2014	World Cancer Congress	2,000
2014	World Congress of Cardiology	9,000
2014	IEEE International Symposium on Circuits and Systems	1,000
2015	World Geothermal Congress	1,500
2017	International Joint Conference on Artificial Intelligence	1,000

Proposed Venue

1. City and location of auditorium – Melbourne, Australia

Please refer to the attached Melbourne package.

2. Capacity of plenary auditorium

The plenary auditorium at the Melbourne Convention and Exhibition Centre (MCEC) holds 5,541 pax with tiered seating. The plenary auditorium can also be split into three acoustically separate auditoriums for 1,500, 1,500 and 2,500 pax.

3. Meeting room numbers and capacity

The Melbourne Convention and Exhibition Centre houses 32 meeting rooms of various sizes (from 60 delegates theatre style to 2,304 delegates theatre style, not including the plenary auditorium). A proposal has been received from the Melbourne Convention Centre and the facility can comfortably accommodate all requirements for a WEC Convention. Please refer to the following pages for an overview of the Melbourne Convention and Exhibition Centre and detailed information regarding all meeting rooms and their capacities etc.

4. Facilities for speakers and preparation of presentations

An optional feature offered by the Melbourne Convention and Exhibition Centre is a speakers' preparation service. Operated by Technology Services, a speakers' preparation room can reduce the stress associated with coordinating speakers' presentations while also significantly reducing the changeover time between presenters during convention sessions. The speakers' preparation room provides a dedicated central location for presenters to load, edit and check through their presentations. This central location also enables organisers to monitor presenters who have yet to provide their presentation for a session. Speakers' preparation can be set up in any one of the three purpose-built speakers preparation rooms or in any of the rooms at the Convention Centre. Engineers Australia will work with the Convention Centre to ensure a smooth process (i.e. prepared session title slides, a copy of the convention program and list of sessions/speakers provided to cross check which presentations have/haven't been received, speakers to report to the speakers' preparation room to load presentations at least one hour prior to the session commencing etc.).

5. Poster session space

All posters will be housed in the same area as the exhibition and catering.

6. Exhibition plans, proximity to convention venue

The Melbourne Exhibition and Convention Centre is one integrated facility. Therefore, the meeting rooms assigned to WEC 2019 will be in the same complex as the space allocated to the exhibition, posters and catering.

7. Facilities available for associated Federation activities

As the Melbourne Convention Centre houses 32 meeting rooms of various sizes, the complex will be able to accommodate all WFEO STC Meetings, the Executive Council and General Assembly. The Convention Centre provides world class, in-built audio-visual equipment plus free Wi-Fi. Business centre services including photocopying, fax and international telecommunications are readily available and will be provided in a Secretariat Room (including stationary, photocopier etc.).

All requirements as per WFEO ROP Annex D (Hosting General Assembly and Executive Council Meetings) will be provided at no cost to the WFEO.

8. Hotel accommodation and rates

Melbourne has a superb range of accommodation to suit all budgets, tastes and delegates' needs. Most of Melbourne's city hotels are within walking distance from the Melbourne Convention and Exhibition Centre.

There are currently 9,757 hotel rooms within the city centre, 16,983 within the city of Melbourne and 26,188 hotel rooms in greater Melbourne. All major international hotel chains are represented – Hyatt, Westin, Marriott, Sofitel, Novotel, Crowne Plaza, Holiday Inn, Hilton and more. More than 5,400 hotel rooms are located within a five minute walk of the Melbourne Convention and Exhibition Centre.

Please refer to the table below for a summary of some of the main hotels within a 10 minute walk of the Melbourne Convention and Exhibition Centre that could be used for the 2019 Convention (samples only, not an exhaustive list). Rates are indicative group rates and are based on November 2012. Once Melbourne is confirmed as the host city for 2019, Engineers Australia will negotiate group rates for 2019 with individual properties.

Hotel	Star Rating	No of Rooms in the Hotel	Distance from the Melbourne Convention and Exhibition Centre	Indicative Group Conference Rates (room only) – \$AUD
Hilton Melbourne South Wharf	5	396	Adjoined at level 1	\$285
Crown Towers*	5	481	5 minute walk	\$280
Crown Metropol*	5	658	5 minute walk	\$230
Crown Promenade+	4.5	465	5 minute walk	\$220
Crowne Plaza	4	385	5 minute walk	\$265
Holiday Inn on Flinders	4	200	5 minute walk	\$230
Vibe Savoy	4	162	7 minute walk	\$205
Travelodge Docklands	4	290	10 minute walk	\$159
Note*: Crown hotel rates are inclusive of internet				

9. Student accommodation and rates

Melbourne has an abundance of hostel accommodation for students and travellers on a budget. The city centre has the biggest concentration of these rooms, with over 3,100 beds. Melbourne also has approximately 3,450 serviced apartments within a 20 minute walk from the Melbourne Convention and Exhibition Centre (for several people to share).

Please refer to the table below for a summary of some budget/ hostel style accommodation within a short walk or tram ride of the Melbourne Convention and Exhibition Centre that could be used for the 2019 Convention.

Hotel/Hostel	Star Rating	No of Rooms in the Hotel	Distance from the Melbourne Convention and Exhibition Centre	Current Indicative Room Rate (room only) - \$AUD
Urban Central	Backpackers	450 beds	5 minute walk	\$30
Pensione Hotel	3.5	114	5 minute walk	\$99
Travelodge Southbank	3.5	275	10 minute walk	\$159
Hotel Enterprize	3/3.5	273	5 minute walk	\$98
Victoria Hotel Melbourne	3.5	374	15 minute walk	\$125
Ibis Melbourne Little Bourke Street	3	121	15 minute walk	\$109
Urban Central	Backpackers	121	5 minute walk	From \$30 per bed per night

In addition, Engineers Australia will investigate a possible ‘Home Hosting Program’ with Engineers Australia members/delegates attending the 2019 Convention hosting/accommodating students at their own homes.