

The Australian Network of Structural Health Monitoring

8th Annual Workshop

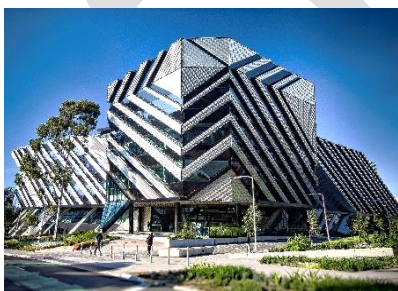
29 – 30 Nov 2016 (Tuesday and Wednesday), Melbourne

Organizers: Dr. Colin Caprani and Dr. Ye Lu,
Department of Civil Engineering, Monash University

Venue: Seminar Room 2 & 3
Monash Conference Centre
Level 7, 30 Collins Street, Melbourne, VIC 3000

Invitation & Call for Abstracts

The Australian Network of Structural Health Monitoring (ANSHM) was established in June 2009 to promote the recognition of Structural Health Monitoring (SHM) in Australia. SHM presents great benefits for the management of civil structures around the world. The importance of the problem motivates academic institutions and industries with expertise and knowledge in SHM to work together. The aims of ANSHM Annual Workshops are to facilitate this engagement by sharing recent achievements, promoting collaborative research, and developing better SHM implementations to find optimum solutions for national and regional infrastructure. The 8th ANSHM annual workshop will be held in Melbourne, Victoria. Academic researchers, civil engineers, managing authorities, construction companies, and anybody interested in structural health monitoring to improve structural safety, reliability and service life are welcome to attend this free workshop.



Contact

For any queries and registration matters please contact:

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8th ANSHM Annual Workshop

ANSHM was formed to raise the recognition of SHM in Australia. It is a non-profit organisation comprising of academics and engineers with expertise in structural engineering and SHM areas with proven track records. SHM is defined as the use of on-structure sensing system to monitor the performance of the structure and evaluate its health state. For the last two decades SHM has

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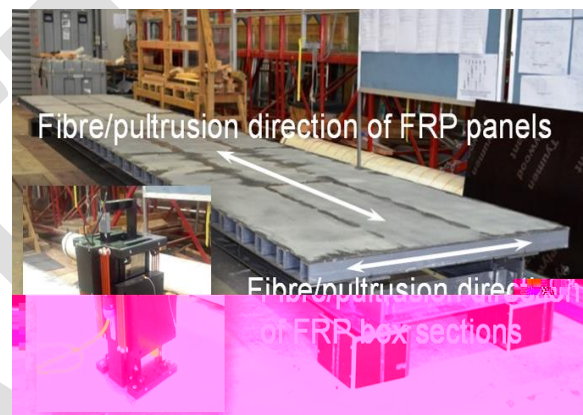
Monash University

Monash University was established in Melbourne, Australia in 1958, named after engineer, military leader and public administrator Sir John Monash. Monash University has six campuses in Australia as well as international campuses in China, India, Italy, South Africa and Malaysia:

“Through excellent research and education, Monash will discover, teach and collaborate with partners to meet the challenges of the age in service of national and international communities.”

The Department of Civil Engineering focuses its research around three themes: Resilience, Infrastructure and Society; Energy, Water and Resources; and Monitoring, Prediction and Protection. Some of the KEY SHM related activities are:

- Dr. Caprani’s group has constructed a 9 m long pultruded GFRP footbridge to investigate the feasibility of such structures. The aims of this project are to develop suitable design guidelines of pultruded FRP bridges, determine cost effective manufacturing methods and provide an optimum solution in the replacement of ageing small-to-medium scale footbridges in the future.
- Dr. Lu’s group mainly study the application of ultrasonic waves for structural health monitoring. They focus on monitoring steel or concrete structural components with ultrasonic guided waves and perform advanced signal processing.
- The research group for the Management and Prediction of Pipe bursts (MAPPS) incorporating the ARC-Linkage Project for predicting and controlling pipe bursts is directed by Prof. Jayantha Kodikara. The mission of MAPPS is to provide scientific understanding of the pipe burst problem, for developing improved methods for proactive pipe network management, rehabilitation and renewal.



Call for Abstracts

The two days program will be held in Melbourne, VIC, including oral presentations, advisory board and general meeting, industry discussions and lab tour in Monash University (Clayton campus). Each abstract should cover but not limited to the following topics and include the elements listed below.

Abstracts are to submitted by **30 September 2016**
by email to Dr. Colin Caprani at colin.caprani@monash.edu.

Topics:

- Structure Health Monitoring
- Structural Safety and Reliability Analysis
- Non-destructive Testing and Damage Detection Techniques
- New Sensing and Measurement Techniques
- Vibration Testing and Monitoring
- Modal Analysis and Data Analysis Techniques
- National and Regional Infrastructure Asset Management
- Structural Performance and Life Cycle Assessment
- Structural Maintenance and Repair Strategies

Required Elements:

- Abstract Title (not all uppercase).
- Author information (including full name, institution, affiliation and email address).
- Presenter should be clearly indicated.
- Description of research project should be included (within 250 words).
- Figure/drawings can be included but within one page.

Typically just one presentation per organization is facilitated, but this presentation can include all activities of the organization.

Special Issue

It is intended that authors/presenters of the 8th ANSHM workshop are welcome to submit their work to a peer-reviewed international journal special issue. The journal will be advised shortly.

Free Registration

There is no registration fee for this event. However, RSVP is necessary for catering purposes. Please register your attendance by email to Dr. Colin Caprani at colin.caprani@monash.edu by **31 October**.

Tentative Schedule

Day 1

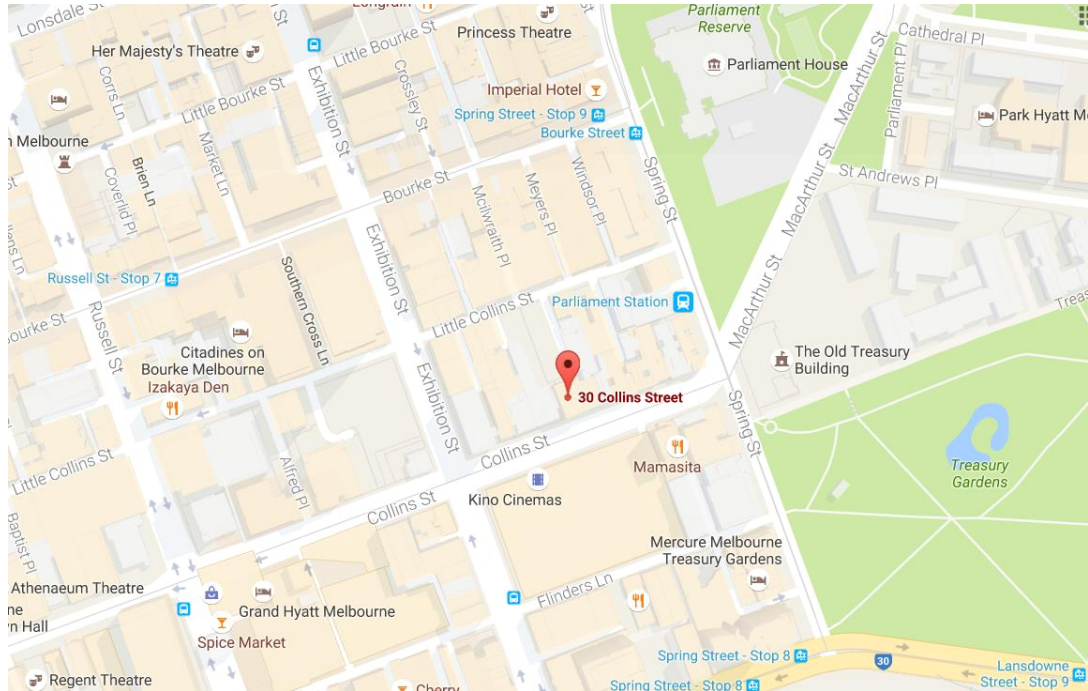
Time/Date	Tuesday, 29 Nov 2016
8:45-9:15	Morning Tea/Registration
9:15-9:30	Opening Speech
9:30-10:30	Oral Presentations
10:30-11:00	Coffee Break
11:00-12:30	Oral Presentations
12:30-14:00	Lunch
14:00-15:00	Oral Presentations
15:00-15:30	Coffee Break
15:30-17:30	Advisory Board Meeting
18:00-20:30	Dinner (Advisory Board & Executive Committee Members)

Day 2

Time/Date	Wednesday, 30 Nov 2016
9:30-10:30	Oral Presentations
10:30-11:00	Coffee Break
11:00-12:00	Industry-led Open Forum
12:00-12:30	Annual General Meeting
12:30-12:40	Close
12:40-13:30	Lunch
13:30-14:30	Travel to Monash University, Clayton Campus
14:30-17:30	Laboratory Tour
17:30	End of Workshop

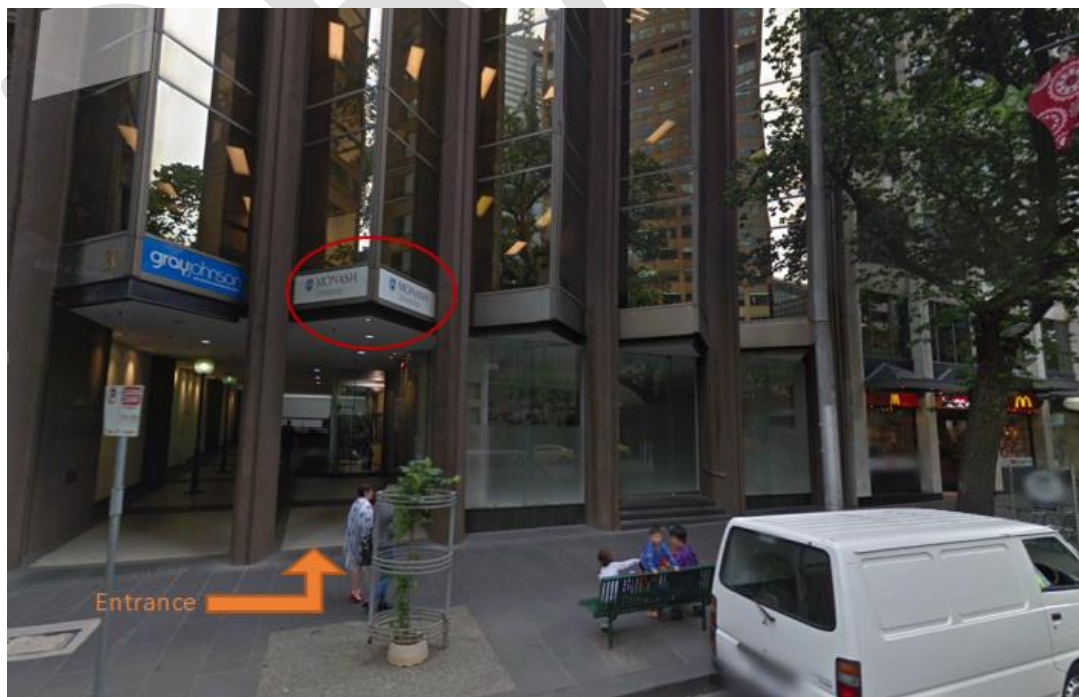
Venue

Location



30 Collins Street, Melbourne, VIC 3004

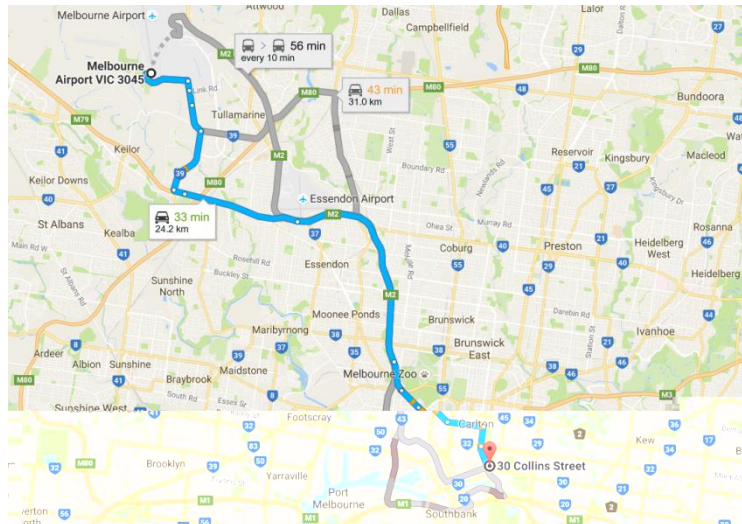
Street View



Transportation

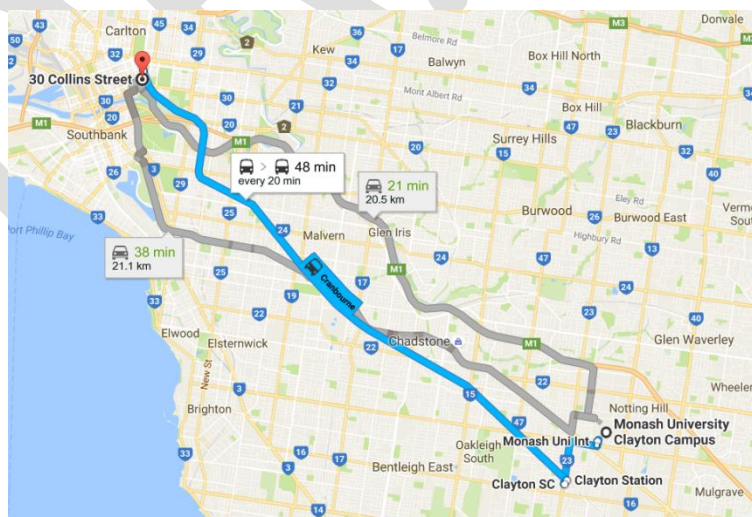
From **Melbourne Tullamarine airport** to **30 Collins Street**:

- Take skybus from airport to Southern Cross Railway Station, then take tram 11, 12, 48 or 109, and get off at Spring Street - Stop 8, about 34 mins.
- Take taxi, about 33 mins.



From **30 Collins Street** to **Monash Clayton campus**:

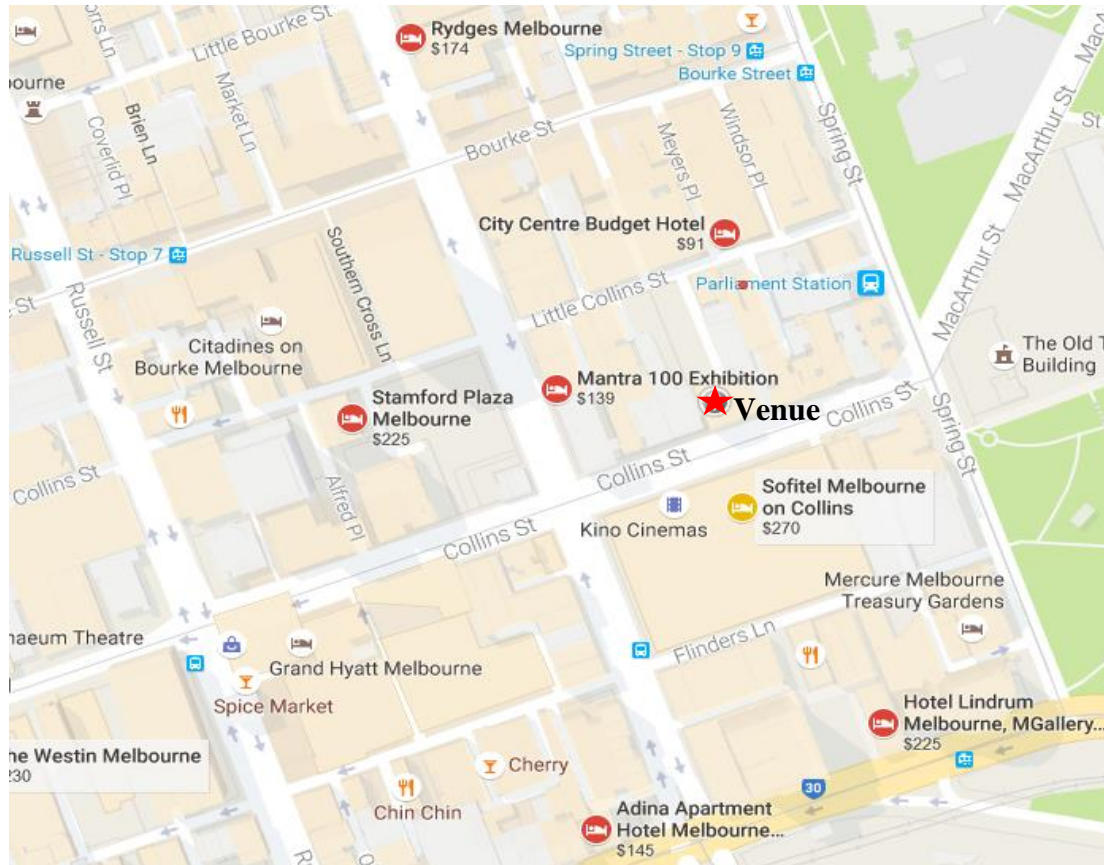
- Take Bus 733 to Oakleigh, get off at Clayton Railway Station, and then take train to City, Get off at Parliament Station, about 48 mins.
- Take taxi, about 21 mins.



Details of the bus, train or tram timetables please see <http://ptv.vic.gov.au/>.

Skybus timetables please refer to <https://www.skybus.com.au/>.

Accommodation



Suggested Hotels (All the prices (per night) checked on 29 August, may vary at your booking time and advanced booking may have lower prices.)

A wide range of options are at www.booking.com or au.hotels.com.

In the next two pages some suggested hotels are presented.

Price Range: AUD 200 TO 250

Sofitel Melbourne on Collins

<http://www.sofitel.com/gb/hotel-1902-sofitel-melbourne-on-collins/index.shtml>

1 min walk, breakfast AUD 32.56, free Wi-Fi, private parking daily AUD 55.



i) Classic Room AUD 238, 36 m²



ii) Superior Room AUD 276.37, 36 m²

Stamford Plaza Melbourne

<http://www.stamford.com.au/spm>

4 min walk, breakfast AUD 32, free Wi-Fi, private parking daily AUD 50.



i) Studio Suite AUD 220, 28 m²



ii) One-Bedroom Queen Suite AUD 250, 41 m²

Price Range: AUD 150 TO 200

Hotel Grand Chancellor Melbourne

<http://www.grandchancellorhotels.com/hotel-grand-chancellor-melbourne/>

8 min walk, breakfast AUD 22, free Wi-Fi, private parking daily AUD 22.



i) Economy Double room AUD 152, 28 m²



ii) Executive Queen Room, AUD 170, 28 m²

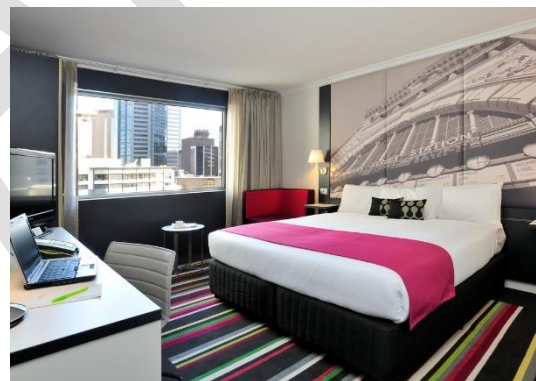
Mercure Melbourne Treasury Gardens

<http://www.mercure.com/gb/hotel-2086-mercure-melbourne-treasury-gardens/index.shtml>

4 min walk, breakfast AUD 26, Wi-Fi charge apply, private parking daily AUD 30.



i) Standard Queen Room AUD 169.2, 21 m²



ii) Standard King Room AUD 177.3, 21 m²