



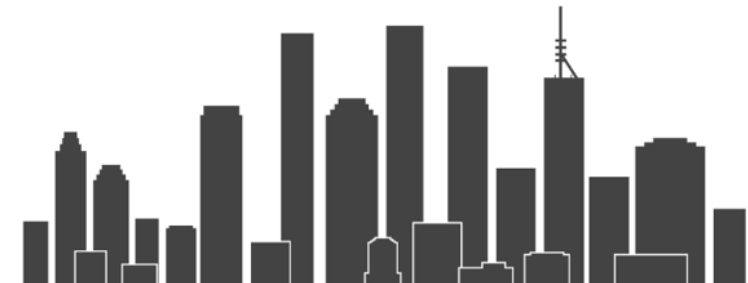
# Overview of Australian Network of Structural Health Monitoring

Presented by

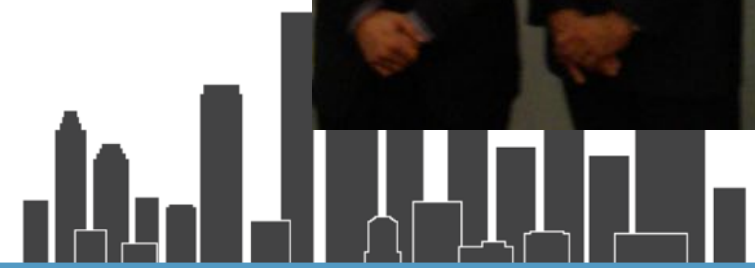
Prof. Tommy H. T. Chan

President of ANSHM

[ANSHM.org.au](http://ANSHM.org.au)



# ANSHM Launching Ceremony (2009)



# Australian Network of Structural Health Monitoring

To **promote** and **advance** the Field of Structural Health Monitoring in Australia

- a) To **coordinate** and **integrate** efforts for better development and application of SHM techniques in Australia;
- b) To **showcase** achievements, **exchange** ideas and **disseminate** knowledge nationally and internationally;
- c) To promote and facilitate national and international **collaborative research** and development; and
- d) To **raise general community awareness** on the need for and value of SHM research and application

[www.ANSHM.org.au](http://www.ANSHM.org.au)



# Members from the following Organisations

- Universities
  - ▶ U of Adelaide
  - ▶ Curtin U
  - ▶ Deakin U
  - ▶ Griffith U
  - ▶ James Cook University
  - ▶ Monash U
  - ▶ QUT
  - ▶ RMIT
  - ▶ Swinburne University
  - ▶ Southern Cross University
  - ▶ U of Melbourne
  - ▶ U of Newcastle
  - ▶ U of New South Wales
  - ▶ U of Surrey (UK)
- Universities (cont'd)
  - ▶ U of South Australia
  - ▶ U of Western Australia
  - ▶ U of Western Sydney
  - ▶ U of Wollongong
  - ▶ Victoria University
- Authorities
  - ▶ Australian Rail Track Corporation
  - ▶ Main Roads WA
  - ▶ NZ Transport Authority
  - ▶ Queensland Department of Transport and Main Roads
  - ▶ Transport for NSW
  - ▶ Department of Transport, Victoria
- Private Companies
  - ▶ AECOM
  - ▶ Arup
  - ▶ Aspec Engineering Pty Ltd.
  - ▶ Australiawide Consulting Service Pty Ltd.
  - ▶ Bentley Systems, Inc.
  - ▶ Bestech Australia Pty Ltd.
  - ▶ Beta International Associates Pty Ltd
  - ▶ CJC Rail & Program Services
  - ▶ Dywidag-Systems Australia
  - ▶ EngAnalysis
  - ▶ Engineering Advice Pty Ltd.
  - ▶ Heywood Engg. Solutions
  - ▶ IDS Australia
  - ▶ Jacobs
  - ▶ Meriton
- Private Companies (cont'd)
  - ▶ Mincka Engineering Pty Ltd.
  - ▶ Monitor Optics System
  - ▶ Natirar Consulting Services
  - ▶ NPO SODIS
  - ▶ NVMS
  - ▶ Pitt & Sherry
  - ▶ Rockfield Technologies
  - ▶ Sci-Meas
  - ▶ Site Geotechnical
  - ▶ SMEC
  - ▶ Sterling Group
  - ▶ Transurban
- ▶ Research Organisations
  - ▶ Australian Road Research Board
  - ▶ CSIRO
  - ▶ Data61



# Growth of ANSHM in Recent Years

## 2018

- No. of Universities: 19
- No. of Private Companies: 11
- No. of Road Authorities: 6
- No. of Research Institutes: 3



## 2022

- No. of Universities: 21
- No. of Private Companies: 27
- No. of Road Authorities: 6
- No. of Research Institutes: 3

Total No. of Organisations: 39

Total No. of Organisations: 57



# ANSHM Achievements

since its establishment in 2009

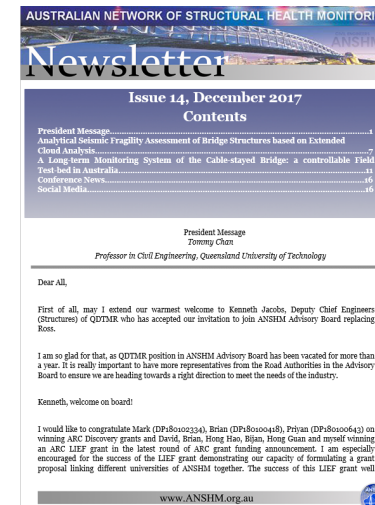
## Workshops – ANSHM Annual Workshops, SHMII-8, Special Sessions



## Education – Forums, Seminars, Undergraduate Courses



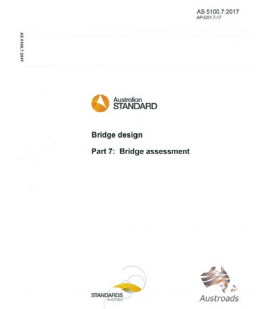
## Publications – Book, Special Issues, Newsletter



## Structures with SHM Systems



## Design Standards – AS5100 2017 (released in 3/2017)



SHM has become a recognised discipline in Australia



# ANSHM Workshops in 2018

## ANSHM ARC ITTC Workshops



**Melbourne (17 Jul 2018)**



**Brisbane (21 Aug 2018)**



**Sydney (11 Oct 2018)**



# ANSHM Workshops in 2018 (cont'd)

10<sup>th</sup> ANSHM Workshop which was held jointly with the 5th Workshop of the Australian Chapter of the International Association of Protective Structures (IAPS-AUS), 10-11 Dec 2018, Wollongong





# ANSHM Workshop in 2019

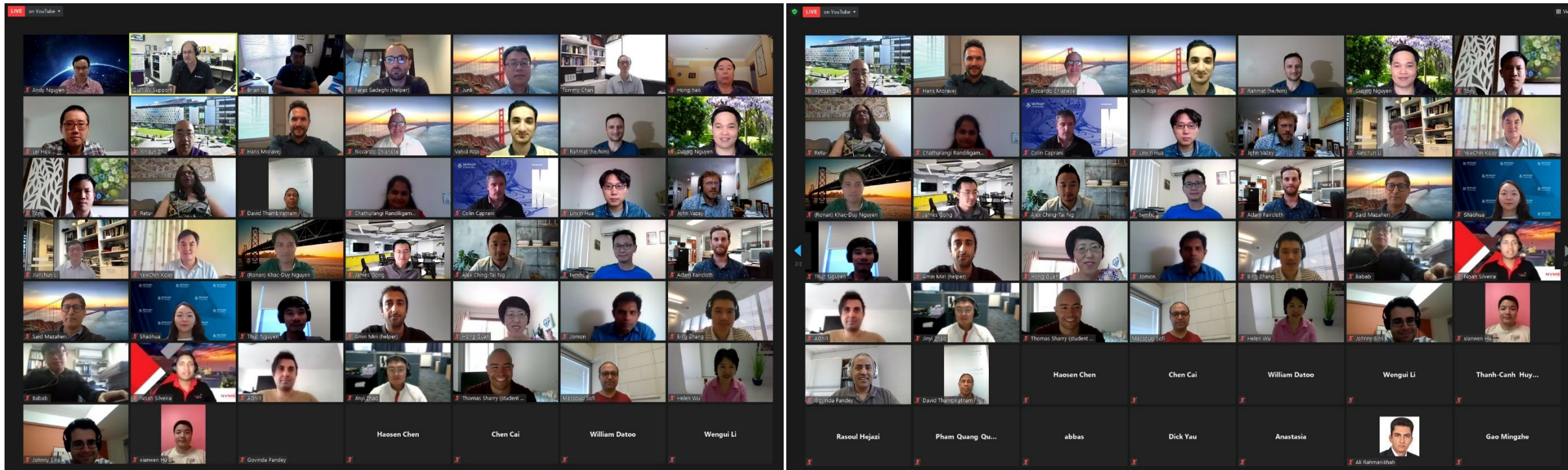
11<sup>th</sup> ANSHM Workshop to celebrate ANSHM 10<sup>th</sup> Anniversary  
hosted by Griffith University, 2-3 December 2019



# ANSHM Workshop in 2020

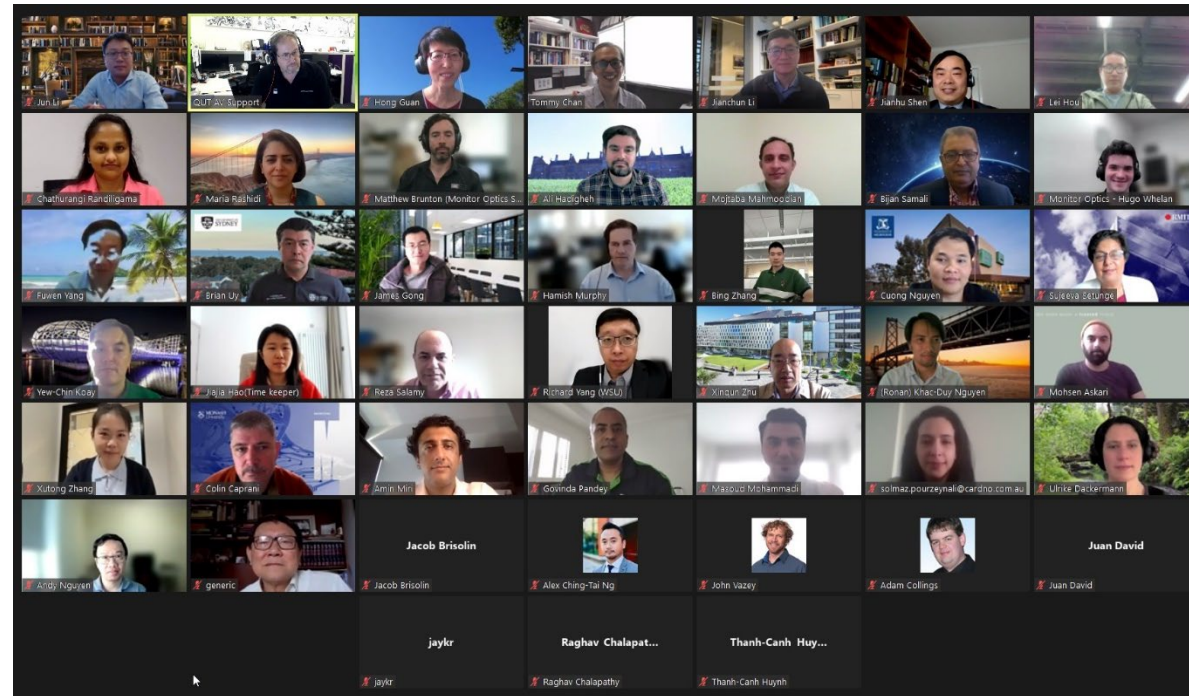
12<sup>th</sup> ANSHM Workshop (online)

organised by ANSHM Executive Committee, 7-8 December 2020



# ANSHM Workshops in 2021

13<sup>th</sup> ANSHM Workshop (online) jointly organised by School of Civil and Environmental Engineering, University of Technology Sydney & School of Civil Engineering, University of Sydney on behalf of ANSHM



# ANSHM Achievements

since its establishment in 2009

## Workshops – ANSHM Annual Workshops, SHMII-8, Special Sessions



## Education – Forums, Seminars, Undergraduate Courses

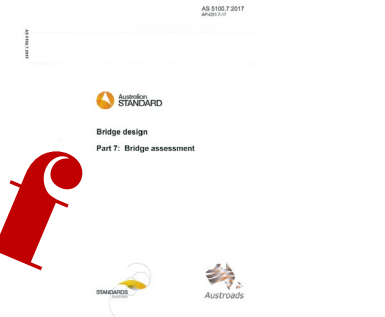


## Publications – Book, Special Issues, Newsletter



## Design Standards –

AS 5102.7-2017  
(release in 3/2017)



## Structures with SHM Systems

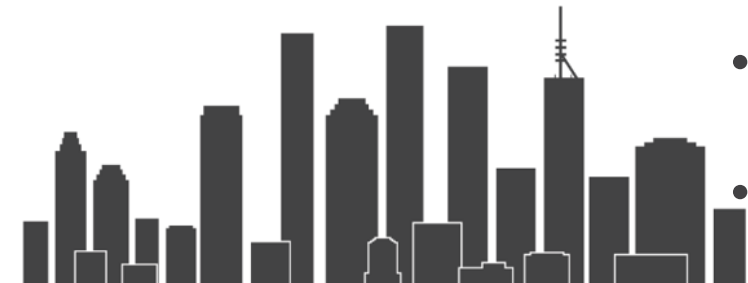


SHM has become a recognised discipline in Australia



# Recent Research Fundings Secured by ANSHM Members (A total of an amount of \$30,955,581)

- ARC Discovery Projects
  - 11 Projects for a total of ARC funding of A\$5,618,687
- ARC Linkage Projects
  - 3 Projects for a total of ARC funding of A\$1,148,385
- ARC Industry Transformation Research Hub
  - 3 Research Hubs for a total of ARC funding of A\$12,939,503
- ARC Industry Transformation Training Centre
  - 1 Training Centre for a total of ARC funding of A\$4,969,602
- ARC Laureate Fellowship
  - 1 Project awarded to Prof Hong Hao for a total of ARC funding of A\$2,253,312
- ARC Linkage Infrastructure, Equipment and Facilities Projects
  - 2 Projects for a total of ARC funding of A\$1,425,017
- ARC DECRA Projects
  - 2 Projects for a total of ARC funding of A\$780,075
- ARC Future Fellowship Project
  - 1 Project for a total of ARC funding of A\$ 821,000
- IMCRC Project
  - 1 Project for a total of IMCRC funding of A\$ 1,000,000



*Thank you for  
your attention!*

**[www.ANSHM.org.au](http://www.ANSHM.org.au)**

