

THE OFFICIAL JOURNAL OF AIRAH

MAY 2016 · VOLUME 15.4

Ecolibrium

Doing WELL

Making buildings better
for people.



PRINT POST APPROVAL NUMBER PP352532/00001



It's show time!

Fact: ARBS is Australia's only international air conditioning, refrigeration and building services trade exhibition.

But did you know that it also has extensive seminar program? So it is not just a trade show; It's show and tell.

WELL, WELL, WELL

First cab off the rank in the 2016 ARBS seminar program is a session titled, "Is wellness the next green?" GBCA CEO Romilly Madew, Tony Armstrong from the IWBI (the International WELL Building Institute) and NDY's Mark McKenna are on the panel moderated by NDY's Tony Arnel.

The seminar will discuss the industry pundits' forecast of the next big thing drawing focus in the property sector: wellness.

The WELL Building Standard uses evidence-based medical and scientific research to harness the built environment as a vehicle to support human health and wellbeing. More than two million sq m of space has gained WELL certification in 12 countries.

A number of Australian heavyweights are lining up to register WELL projects. Lend Lease has promised to explore piloting the upcoming WELL Community standard for key urban regeneration projects. Macquarie Group looks set to achieve the first WELL Building rating in Australia, while DEXUS and Frasers Property have both registered projects.

So, will the WELL Standard be the next Green Star or NABERS? How can WELL ratings help building owners and managers measure the health and wellbeing of building occupants? And will it become a new market differentiator that separates the leaders from the laggards?

This session will provide a nuts-and-bolts explanation of the WELL Building Standard and its focus areas, explore opportunities and obstacles to its take-up in Australia, and why more in the industry are finally talking about healthy buildings.

FAN TECHNOLOGY AND AIRFLOW BASICS

Ecolibrium: What will your seminar at ARBS be about?

Simon Bradwell, M.AIRAH: This seminar focuses on identifying the basic principles of fan design and



Tony Armstrong



Belinda Hodkinson



David Mitchell



Jon Clarke, M.AIRAH



Brett Fairweather, M.AIRAH



Marc Chasserot



Thomas Heine



Josh Wall, M.AIRAH



Tony Armstrong

operation in order to provide context for the discussion of sources of efficiency losses within fan systems. The technologies employed to mitigate these losses are discussed, as are the testing methods through which fan performance and efficiency can be ascertained.

Eco: What are the issues you will be fleshing out?

SB: Topics discussed will include fan technology and common fan types, the applicability of theoretical fan laws, airflow and noise characteristics, the determination of the operating point of a fan system, and the principles of fan testing.

Eco: What would you like the take-away message to be?

SB: This seminar aims to highlight the important role that fan components play in determining the overall efficiency and noise characteristics of the systems into which they are incorporated. It is intended that listeners will develop a more comprehensive understanding

of the factors which contribute to fan performance and efficiency, as well as an appreciation for the importance of careful fan selection during product design.

HFC PHASE-DOWN IN AUSTRALIA – AN UPDATE ON THE MONTREAL PROTOCOL AND THE REVIEW OF THE OZONE PROTECTION AND SYNTHETIC GREENHOUSE GAS PROGRAM

Eco: What will your seminar at ARBS be about?

Patrick McInerney: The seminar at ARBS will be on the proposed phase-down of HFCs. It will cover developments in the Montreal Protocol on a global agreement to phase down HFCs, including the most recent negotiations in April 2016, and developments on a domestic phase-down through the review of the Ozone Protection and Synthetic Greenhouse Gas program.

Eco: The take-away message?

PMcI: That's tricky when the phase-down is still up for negotiation. An HFC phase-down is likely to happen, it will happen over many years – probably 20 – and will be done at a pace Australian industry can manage.

UPDATES TO STANDARD AS/NZS 1668.1

Ecolibrium: What is your ARBS seminar about?

Brett Fairweather, M.AIRAH: ARBS have invited me to present a brief seminar on AS/NZS 1668.1. Following a great response to AIRAH's roadshow throughout March on the recent changes to our fire and smoke control Standards, this seemed like an ideal opportunity to work with AIRAH to keep spreading the message about the changes. So this seminar will be focused on the changes to AS/NZS 1668.1-2015, based on selected material from the roadshow.

Eco: What issues will you flesh out?

BF: This seminar will include: an introduction to the use of the Standard through Codes and legislation (including reference in the new NCC/BCA); an overview of significant changes to the standard; details of each section of the Standard; and an opportunity to have questions answered by a member of the technical committee behind AS/NZS 1668.1.

Eco: The take-away message?

BF: Obviously, I hope those attending the seminar will take away a better understanding of the key changes,



Patrick McInerney



Inge Sarunic



Andrea Voigt



Andrew Barr

with some understanding of how it may affect their role in the industry.

The seminar will be ideal for those familiar with the previous Standard who are looking for information on important changes in the latest revision.

For those who have already attended the AIRAH series, this will be an opportunity to revisit these issues and ask further questions.

INNOVATION IN FM

Eco: What will your seminar at ARBS be about?

Karl de Wet: Our panel of BIM experts will discuss emerging areas of innovation in FM, including building information modelling (BIM) in FM, energy management, FM outsourcing in the new world, and asset life-cycle planning.

Eco: What would you like the take-away message to be?

KdW: People will be up to date with what BIM leaders are up to. They will understand the pitfalls and solutions regarding BIM and FM integration.

They will understand that any BIM system, whether it be FM or not, needs to be implemented at the start of a project and kept up-to-date.

DIGITAL DISRUPTION

What will your seminar at ARBS be about?

Jonathan Clarke, M.AIRAH: This session will focus on how technology is impacting on business and the economy and looks at the aspirations of tenants and building owners. Digital disruption is creating opportunities and challenges for our industry. What's next?

Eco: What are the issues you will be fleshing out?

JC: Big Data analytics products – do they live up to the hype?

What technologies will become a standard offering for a premium grade commercial office?

Eco: What would you like the take-away message to be?

JC: How to prepare your business for digital disruption. ■

ABOUT ARBS 2016



Where:

Melbourne Convention and Exhibition Centre, South Wharf, Melbourne, Victoria

Exhibition dates:

Tuesday, May 17 – Thursday, May 19

Cost:

Exhibition – free of charge, trade visitors only

Seminars:

costs advised with final program

Info: www.arbs.com.au

Twitter:

#ARBS2016 and #ARBS_EXPO

Facebook:

www.facebook.com/ARBSexpo

LinkedIn:

www.linkedin.com/company/1163670?trk=tyah

ARBS 2016 FULL SEMINAR PROGRAM

Tuesday May 17

08.00–10.00	PD01: Panel – The WELL Building Standard Tony Arnel Moderator (NDY), Romilly Madew (GBCA), Tony Armstrong (IWBI), Mark McKenna (NDY)
10.30–11.30	SM01: Updates to Standard AS/NZS 1668.1 Brett Fairweather, M.AIRAH (It's Engineered)
10.30–11.30	SM02: A Great Future in Store: how natural refrigerants continue to evolve in commercial refrigeration Marc Chasserot (Shecco)
12.00–13.00	SM03: Low-Charge NH3 Refrigeration Systems Stefan Jensen, F.AIRAH (Scantec)
13.30–15.00	PD02: Panel – Innovation in FM Karl de Wet – Moderator (Draftech) et al
15.30–16.30	SM04: HVAC&R Fan Upgrades – energy efficiency and maintenance costs Thomas Heine (ebm-papst ANZ)

Wednesday, May 18

08.00–10.00	PD03: Panel – Digital Disruption Jonathan Clarke, M.AIRAH Moderator (NDY) et al
10.30–11.30	SM05: Automated Fault Detection Tools for HVAC Systems Dr Joshua Wall, M.AIRAH (CSIRO)
13.30–14.30	SM06: BIM to Pre-Fabrication – Designing to get the Pre-Fab Benefits Warwick Stannus, M.AIRAH (A.G. Coombs)
15.00–16.00	SM07: Australian Leadership in Geothermal Technology for Residential Projects Dr Martin Larisch, (UOQ)
15.00–16.00	SM08: HFC phase-down in Australia – an update on the Montreal Protocol and the review of the Ozone Protection and Synthetic Greenhouse Gas Programme Patrick McInerney, (Dept of Environment)

Thursday May 19

07.30–09.30	PD04: Panel – Safety in Design for HVAC&R Christopher Rankin (AMCA), Carl Sachs (Workplace Access & Safety), John Callea (Department of Planning, Transport and Infrastructure)
10.00–11.00	SM09: Calculating Cool Phase II Inge Sarunic (Sustainability Vic), Phil Wilkinson, F.AIRAH (AIRAH), PC Thomas (Team Catalyst)
10.00–11.00	SM10: An Exploration of F-Gas Regulation in Europe – TBA
11.30–13.00	PD05: Panel – A Consideration of International Approaches to Reducing HFC Emissions – TBA
11.30–12.30	SM11: How Good Projects Go wrong – how to reduce risk with effective commissioning processes Andrew Barr (A.G. Coombs)
13.00–14.30	SM12: Fan Technology and Airflow Basics Simon Bradwell, M.AIRAH (ebm papst ANZ)

For more info on seminars, go to www.arbs.com.au