

THE OFFICIAL JOURNAL OF AIRAH

OCTOBER 2019 · VOLUME 18.9

RRP \$14.95

PRINT POST APPROVAL
NUMBER PP352532/00001

Ecolibrium



Rack 'em up
Keeping data centres cool.



Skipping ahead

Grün Consulting's Clare Parry, M.AIRAH, is part of the impressive line-up of speakers for AIRAH's Building Physics Forum later this month in Melbourne.

Ecolibrium: What will you be talking about at the Forum?

Clare Parry: My talk is entitled "Comfortable, healthy, durable and efficient: skipping ahead to high-performance buildings".

A standard that delivers optimised building physics outcomes without compromise could assist in overcoming issues with avoidable building fabric woes. This includes structural degradation; condensation and mould; comfort delivery; and enhanced air quality.



Ecolibrium: Is it a rating tool we've heard about before?

CP: This elusive gold standard has actually been in existence for hundreds of years and was formalised almost 30 years ago. What is it? Passivhaus.

Ecolibrium: Will you be referring to specific buildings?

CP: I will provide a detailed case study of Australia's first scale building: Gillies Hall at Monash University's Peninsula Campus. In this presentation, I'll delve into detail of how to achieve the standard using a back-to-basics focus on the fundamentals of health, comfort, durability and efficiency. ■

Would you like to know more?

For more information about AIRAH's Building Physics Forum, go to www.airah.org.au/buildingphysicsforum

Hot summer day

Darren O'Dea from Fabric First will use his spot at the Building Physics Forum to explore overheating.

Ecolibrium: What will you be speaking about?

Darren O'Dea: My talk is "Summer overheating: a parametric review of discomfort and risk in high-performance buildings".

This presentation aims to establish a better understanding of this occupant comfort risk, through the adoption of parametric modelling. I will compare these to three Passivhaus designs modelled in the Passive House Planning Package (PHPP).



Eco: Tell us a bit about yourself.

DO'D: Over the past 10 years, I have developed a wide range of technical and business development expertise covering the assessment, delivery and management of building physics consultancy. I have also authored more than 50 articles in blogs and publications on the subject of building physics and its role in architecture and engineering.

Go to www.airah.org.au/buildingphysicsforum ■

Up close



Adel Botros, M.AIRAH, is a mechanical engineer with the Naval Technical Bureau, based in Sydney.

Responsibilities

Develop, prepare, review and deliver advice and technical expertise to guide projects. Also, evaluate specialist proposals from contractors. Update and maintain elements of Navy's Material Requirement Set (MRS) and provide expert advice and engineering recommendations.

Specialty

Mechanical auxiliary systems, especially, refrigeration and HVAC.

Passions

Creativity and innovation inspire me by looking at problems and issues with a new perspective and solving those problems by utilising new and imaginative ideas. Creativity is subjective and hard to measure; it begins with a base of knowledge, learning a discipline, and mastering a different way of thinking. Innovation is the implementation of those creative ideas.

Challenges

Global changes in refrigerant policies and their impact on the industry. The hard part is the substantial cost; however, the positive side is reaching out of the comfort zone of using refrigerant gases harmful to the environment and to start utilising less toxic gases. I have found that the refrigerant gas manufacturers and the scientists are looking for new, environmentally friendly gases. I can also see the potential for new business ventures through this uncovering.

Inspiring words

Success, expertise, pioneer, unique, achiever, best, smart and reliable. I hold these words to a high regard, as I find them not only motivational but also attainable.

Favorite destination

My favourite destination is Stockholm, Copenhagen, and the Greek islands.

Future plans

My plans for the future are to use my engineering and technical expertise to establish a consulting and services firm. ■