

THE OFFICIAL JOURNAL OF AIRAH

JULY 2019 · VOLUME 18.6

RRP \$14.95

PRINT POST APPROVAL
NUMBER PP352532/00001

Ecolibrium

Sound advice

Unpacking HVAC acoustics.



AIRAH's big new deal

Analysing data from building kit is changing the way we manage our physical assets. Ahead of AIRAH's inaugural Big Data and Analytics Forum next month, we broke bread with speaker Chris Stamatis, Affil.AIRAH, to get a feel for what he'll be discussing during his presentation.

AIRAH's Big Data and Analytics Forum 2019 will be held in Sydney on August 1. An overarching theme of discussion will be how analysing historical patterns from building data is helping to diagnose faults or equipment deterioration. This is, in fact, significantly altering the way buildings can be managed and maintained.

At the Forum speakers will cover a range of topics dealing with big data and analytics.

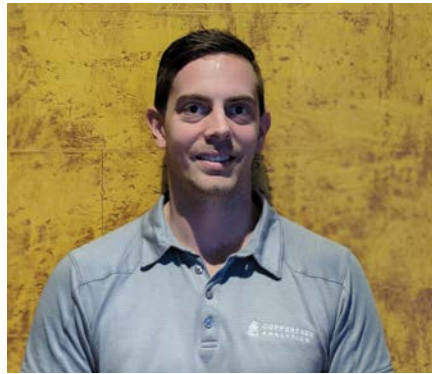
Chris Stamatis, Affil.AIRAH, from CopperTree Analytics will be discussing how using data analytics can reduce energy consumption and improve asset maintenance procedures.

Ecolibrium: What will you be discussing at the Forum?

Chris Stamatis: Big data analytics can help to drastically reduce energy consumption in buildings while improving occupant comfort and streamlining maintenance.

Understandably, there's a lot of hype around big data. People want it but they don't know how to apply it in real life, and – without the correct application – it can be a waste of time.

Using real-world case studies, I will attempt to show the true value of data analytics when used correctly, and



explain how it's changing the way we maintain and tune buildings to bring them into the 21st century.

Eco: Why this topic?

CS: The HVAC industry has not seen any large disruption since the introduction of electronic control, and it is exciting to be a part of this movement. Analytics is changing the ways in which we maintain, commission and optimise buildings.

Eco: What do you hope people take out of your presentation?

CS: Analytics is a tool to be used onsite, it's not a silver bullet that will fix everyone's problems. It's important to have a service delivery when deploying analytics – this will ensure insights are being actioned.

Eco: What developments in big data and analytics are you most excited about?

CS: Analytics has been moving quickly. There are many exciting features being developed, like artificial intelligence and machine learning. However, I am most excited about how it's being used by industry; as people get more comfortable with analytics, we are starting to see some creative ways it's being used. ■



Based in Adelaide, Jessica Allen, Affil.AIRAH, is an ESD consultant with SUHO.

Specialty

My specialty is energy-efficient design, passive design principles, the energy section of the NCC, air-tightness testing.

Passions

I am passionate about closing the gap between design, simulation and construction, and reducing the pointless waste of energy and resources.

Challenges

There is a large percentage of the population who do not give a second thought to energy efficiency in design and construction. Rather than a frustration, I find it to be an opportunity for education when people respond to discussion around air-tightness by saying they don't understand why that matters because we don't like to live in a sealed box, we like to open windows in Australia. Air-tight construction and ventilation of that structure are two different things.

Professional development

I consult with industry peers and attend training sessions in areas of interest. I read articles, and try to stay in touch with the goings-on out there. I also hold a lot of seminars and do presentations on current industry issues, and I learn a lot from these.

Inspiring words

"If you don't ask you don't get." This may not sound particularly inspiring, but this particular phrase enables me to put myself in spaces that I otherwise would not put myself in.

Future plans

I plan on continuing to be part of the force that closes the gap between design/simulation/construction. I plan on watching my daughters grow up, and spending time with those I love. ■

Would you like to know more?

For more information about the inaugural Big Data and Analytics Forum, go to www.airah.org.au/BigData