SMART CAMPUSES

LEADING THE CAMPUS OF THE NEXT CENTURY

2019 OAPPA Annual Conference – May 28 to May 31

Simple Smart Buildings

Presentation Theme

Passive House is a method of designing and constructing a building to meet rigorous energy demands. This is achieved through enhanced design and coordination of the building envelope, improved air-tightness, and utilisation of Heat Recovery Ventilators. Choosing to build to the Passive House standard results in a building which consumes approximately 90% less energy when compared to conventional construction.

By improving the building envelope and mechanical systems, less equipment is required to operate the building, meaning fewer controls, and less IT infrastructure requirements. When compared to conventional building methodology, Passive House buildings design out the excesses typically found in conventional construction. Limiting the quantity of machines and equipment which are required to be interconnected in a smart building, improves ease of maintenance, cloud storage limits, and data dissemination. By utilising Passive House to assist in creating a simple smart building, data collection and analysing becomes more efficient as less equipment is required as part of the design, in conjunction with a better performing building.

Learning Outcomes:

- Participants will learn about smart campus solutions available now using today's technology, as well as how to create future adoption.
- This session will offer higher education stakeholders ideas to help create more integrated learning, helping students develop skill sets required to become the workforce of the future.

Presenter:

Deborah Byrne, Chief Executive Officer, Director of Passive House Design, Kearns Mancini Architects

Deborah earned her Higher Degree in Structural Engineering from Cork Institute of Technology Ireland, the title of Chartered Engineer Institute of Engineers Ireland and International Certified Passive House Designer and Trainer before moving to Toronto in 2012. She has gained broad experience in all areas of construction and design. Deborah is driven by core values of sustainability, functionality, comfort and affordability, as well as solutions where a reduction in the energy demand can seamlessly integrate with daily living and working. She maintains true to her belief “that we can always do better.”