

## CALLING FOR ENROLMENTS IN NEW DIPLOMA OF CONSTRUCTION MANAGEMENT AT THE UNIVERSITY OF TASMANIA

THE University College of the University of Tasmania is calling for enrolments in the new Diploma of Construction Management, which will be available in February 2020. The course is suited to existing employees within the building and civil construction industries who hold a Cert III in Building & Construction, or a Cert III in Civil Construction, have relevant industry experience, and are looking to upskill into roles with additional functional requirements and higher levels of responsibility (UTAS),

To enquire about funding possibilities, contact Paul Lockwood at the Tasmanian Building and Construction Industry Training Board on email: paul@tbcitb.com.au or phone: 62237804.

## TBCITB OCTOBER PUBLIC MEETING

MORE than 50 industry participants attended the latest Tasmanian Building and Construction Industry Training Board (TBCITB) public meeting to provide important feedback on industry training.

These public meetings are held by the board every two years to review the state of the building and construction industry, identify areas for targeted programs of support and to ensure the board responds appropriately to industry feedback.

Two areas of interest at the meeting were employee wellbeing and Business Information Modelling (BIM) implementation.

The value of BIM in improving workplace efficiency and lowering costs was noted, as was the need for more demonstration projects to assist with showcasing the many benefits of the technology.

In respect of employee wellbeing, the board was urged to continue its efforts to support specific training and strategies to support employees with mental health and other wellbeing issues.

Promoting the benefits of working in building and construction to students in years nine to 12 was also identified as important.

Alongside this, the significant value of mentoring programs was discussed.

The meeting also discussed the skills shortage in the industry. More teachers and trainers are needed in the industry, the meeting was told.



*The TBCITB is helping guide the industry in the better application of Building Information Modelling (BIM) through the BIMhub project. BIMhub encourages development of BIM capability in Tasmania through awareness, education and policy development.*

*Presenters at a recent industry information day were L-R Damian Rogers, John Mitchell, Graham Brewer, Tracy Matthews, Catherine Galloway (Macquarie Point Development Corporation), Allan Jeffrey, Claire Vervaart.*

## BUILDING INFORMATION MODELLING PROVEN AN INVALUABLE TOOL FOR BUILDING AND CONSTRUCTION

BIM is increasingly used worldwide on development projects. In Australia, industry and governments are in various stages of BIM adoption. BIM bridges the gap between traditional 2D drawing and 3D modelling, using virtual data sets to create a virtual model of an entire project. Any changes made to the design of the project can be easily integrated back into the model, saving time and money when it comes to identifying design elements and maintenance implications .

Gandy and Roberts Engineering is a strong advocate for Building Information Modelling (BIM), after having successfully implemented it at a recently completed Atlantic Salmon nursery for Huon Aquaculture at Whale Point.

Director of BIM Consulting at Gandy and Roberts, Klaus Stroehl, said there is a wide range of benefits of using BIM technology processes. "BIM processes allow improved collaboration and coordination of all relevant disciplines, reduce RFIs through better documentation, and reduce waste and overall risks," he said.

According to Klaus, BIM processes are mandatory in various countries around the world. Klaus explained that BIM has the potential to significantly "improve efficiencies, deliver better buildings, and to reduce costs in the building industry".

In Australia "various initiatives in state and federal governments have BIM on the agenda and some state governments require major projects to be delivered using BIM processes," he said. "BIM was the

fundamental process to design the facility from the start of the Huon Aquaculture project" with some contractors actively using BIM Models on site and others benefiting indirectly "due to the very high level of coordination".

Many designers are already familiar with BIM Modelling for internal processes and design documentation. "On the Whale Point project, this was taken a step further – BIM as an integrated and coordinated approach to create, maintain and use the models across design and construction processes proved to be invaluable, and exceeded the high expectations," said Klaus.

For one of the project's main contractors, Billund Aquaculture, 3D models were demonstrated to be foundational to construction activities. "I cannot stress how important 3D modelling in general and BIM in particular is for us," said Australian CEO of Billund Aquaculture, Patrick Tigges.

"Our projects - land based fish farms - have often proven to be extremely challenging and confusing for most other contractors and at times even hard to design for ourselves, due to the vast number of pipes in various layers across our facilities," said Patrick.

Patrick gave thanks to Klaus Stroehl and Gandy & Roberts for assisting with BIM implementation for the project. "For us it is hard to imagine doing a project these days without 3D modelling and I can only strongly recommend for the construction industry to implement BIM into their workflows."