

**Craig McLauchlan, Research Facilities Manager, SBRC, University of Wollongong**

Dr Craig McLauchlan is the Research facilities Manager at the Sustainable Buildings Research Centre. He is responsible for the operations and management of the SBRC building and its laboratories and played a key role in their design and commissioning.

Craig has actively carried out research on the built environment at the SBRC with a focus on applied fieldwork and industry collaborations. He has experience with IAQ and IEQ measurement, energy and power monitoring, building air tightness testing and thermography.

Craig has completed a PhD and degrees in Electrical and Mechanical Engineering with 15 years of professional experience in the steel manufacturing industry prior to joining UOW.

**SBRC Presentation**

The Sustainable Buildings Research Centre (SBRC) at the University of Wollongong is a unique research entity with the aim to undertake research in collaboration with industry to meet the challenge of improving the energy efficiency of new and existing building stock. The SBRC team is engaged in sustainable building research through delivery of advanced technologies, integrated component testing, skills training and researching the impacts of day-to-day behaviours of building occupants.

The home of the SBRC research team is the SBRC Building - one of the most sustainable buildings in Australia. It is a net-zero energy, 6 Star Green Star and Living Building Challenge accredited, multi-disciplinary facility. The building was designed and constructed using the principles of the Living Building Challenge to be a flagship of sustainability, with the aim of inspiring communities throughout Australia and the world to take action on sustainability.

The stellar performance of the SBRC is not due to a single exotic technology; rather it is from a combination of pragmatism, challenging design assumptions and making the best of currently available equipment. This presentation will present highlights from the design processes, construction and operation of the Sustainable Buildings Research Centre. It will focus presenting the processes and technology in a modular way that singly, or together, can be applied to other building projects.