

## CHARLES STURT UNIVERSITY (CSU) SCHOOL OF DENTISTRY AND HEALTH SCIENCES BUILDINGS, ORANGE



### Overview

Zauner Construction is proud to have completed the five new buildings at the CSU Orange Campus. The five buildings included a two storey extension to the existing Library and refurbishment of the existing Library. A new Lecture Theatre was constructed alongside the new two storey Clinical Sciences Building for the Nursing Facility. All these were in addition to the main building, being a new two and three storey School of Dentistry and Health Sciences teaching facility. This building is the head quarters of the new Dentistry Faculty for the four other Charles Sturt University campuses now teaching Dentistry in Wagga Wagga, Bathurst, Dubbo and Albury.

The School of Dentistry and Health Sciences facilities were in response to the chronic shortage and increasing demand of dental and oral health workers Australia-wide. The facilities offer state-of-the-art amenities and will play a major role in helping improve the oral and systemic health of people in regional NSW, across the nation and the world through progressive education, research, patient care and community service.

The focus was on innovative and high quality education using vibrant new learning spaces to encourage collaboration and support of new methods of teaching and learning.

The project also contained many environmental sustainable design elements including Automatic Thermal Controls, using night purging systems with thermal chimneys and electric window operating systems. The buildings were built to equal Level 5 Green Star ratings.

### Structure

The construction of the buildings were principally reinforced concrete slabs and columns with suspended post tensioned first and second floor slabs with structural steel frames on the upper levels. The building envelope consisted of aluminum curtain walling and pre-finished alucabond / vitra panel cladding.

### Services

The hydraulic system was more complicated than the usual commercial project with circulating hot and tempered water systems, as well as grey water reticulation and rain water re-use systems. Storm water was captured on site into storage tanks under the building for re-use on site in toilets and landscaping.

### Site Restrictions / Organisation

Site access was limited on most of the buildings as the construction entailed working within almost the entire Orange campus that dove-tailed amongst the existing buildings, whilst almost doubling the area of the existing buildings.

### Time & Performance

The project was delivered on time despite the fact that the climate in Central West New South Wales simulates weather found at similar altitudes as the Victorian Alps and at times was just as cold, and windy, and occasionally snow fell on site during the two winters that the project spanned.

### Client

Charles Sturt University  
Stephen Butt  
Facilities Director  
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### Value

\$31.5m

### Construction Period

February 2008 to  
December 2010

### Location

Orange, NSW

### Awards

2011 MBA NSW Excellence in  
Construction Merit for Tertiary  
Building \$20-\$50m

