

WEALTH OF KNOWLEDGE

BUILDER : Hansen Yuncken
ARCHITECTS : John Wardle Architects
STRUCTURAL ENGINEER : Irwin Consult
CONSTRUCTION VALUE : \$38 million



The Monash University Caulfield Library has undertaken a \$38M redevelopment with a complete refurbishment of the existing four floors, combined with spacious extensions to the west and south, featuring impressive highly architectural façades. The flexible state-of-the-art teaching and study spaces have a contemporary natural light filled open layout with various advanced digital technology throughout.

Hansen Yuncken began major demolition on the Monash University Caulfield Library in January 2016. The Caulfield Library was opened in 1972 and is very popular with staff and students in the Faculties of Business and Economics; Art, Design and Architecture; Arts; and Information Technology. The new facility will cater for people movements through the front door in the order of 12,000 on any busy campus day. The original building provided 750 seats and is now moving to a capacity of 1,500.

The design team, leaders in educational facilities, have worked closely with Monash University and Hansen Yuncken engaged under a D&C contract, to deliver a facility that will enliven the centre of the campus by creating a new transparency between the interior and exterior of the building. As the library is the heart of the campus, the aim was to create a welcoming and inspiring entrance, significantly increase the size of the facility and contribute to community engagement

by showcasing the Library's Artists' book collection, incorporate the University's artwork with the theme of 'Community by Design' and emphasise the artistic flair and sophistication by offering an inhouse café.

Project Manager for Hansen Yuncken, Damien Penfold, said that the upgrade provided an integration of new elements into the old building, whilst continuing to maintain services for occupants throughout the project. As part of our tender response, Hansen Yuncken devised the staging strategy and adapted it during construction to suit the university and librarians needs, a very complicated exercise, but have maintained the relationships throughout. The architectural shadehouse entry framework is intrinsic to the redevelopment and encourages a sense of great access, community and collaboration. Stainless steel fabric mesh has been used for shading at the front of the building, which is a unique application of this material, and a great fit with the balance

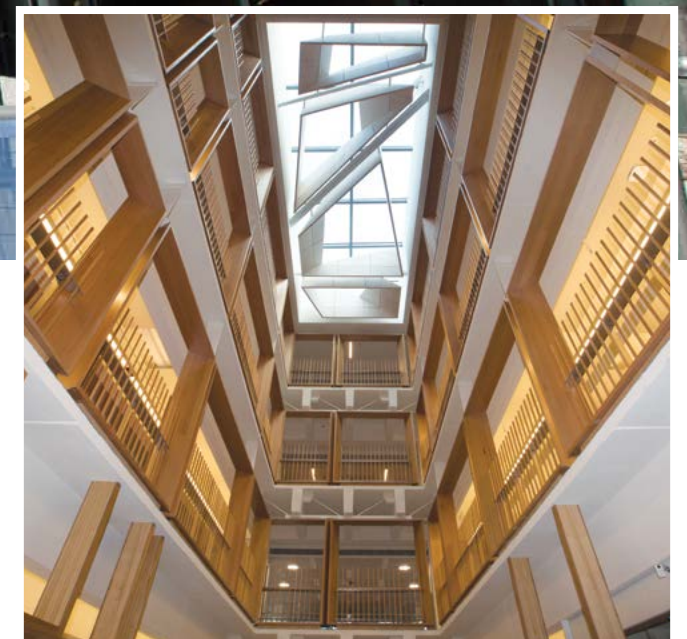
of the natural products such as timber and fabrics used throughout the building.

One of the major challenges on the project was integrating new building and services elements whilst ensuring the safety and good amenity of the facility by staff and students. The approach was lead by considerable planning and consultation throughout each works stage to ensure that the impact on occupants was minimised whilst still completing the project efficiently.

Across the stages, Hansen Yuncken has conducted around 750 site inductions with an average of 100 employees onsite each work day.

Damien said the redevelopment of Monash University Caulfield Library reflected the ability of Hansen Yuncken to work very successfully with industry leading consultants and subcontractors to deliver unique and highly architectural buildings, and most importantly achieve our client group's expectations of excellent outcomes.

Hansen Yuncken is uniquely placed as a leading Australian construction company that has been trading continuously for almost



100 years whilst being privately owned. Well known major projects in recent years include the MONA Art Gallery in Hobart, Melbourne's Waterfront City Docklands, Royal Victorian Eye and Ear Hospital and the new Royal Adelaide Hospital, which is the largest hospital ever undertaken in Australia.

For more information contact Hansen Yuncken, Level 3, 479 St Kilda Road, Melbourne VIC 3004, phone 03 9831 6500, email melbourne@hansenyuncken.com.au, website www.hansenyuncken.com.au

Below Raeco supplied custom shelving on four levels of the Monash University Caulfield Library project.



Below Tali Engineering fabricated a structural steel framework with architectural detail resembling an intricate spider web.



Defined by high end design, quality and proud heritage, Raeco creates 21st Century learning spaces for public, schools, universities and corporate education spaces around the world.

Servicing the industry for over 55 years while creating innovative, flexible and functional spaces with Raeco's latest product and finishes, they provide onsite consultations to discuss the use and application of an extensive range of standard or customised product designs. Raeco collaborate and engage with architects, clients and project managers to generate the desired functionality and fit with floor plans and overall design.

Raeco has a large client base, providing library fitouts locally and internationally including projects in Hong Kong, Vietnam, Cambodia, Phillipines and Romania. Distinctive local libraries that Raeco has worked with include the Docklands library, Geelong Library and Heritage Centre, Top Ryde Library, Dudley Denny Library Mackay and the Dandenong Public Library.

For this project, Raeco has worked with the project managers at Hansen Yuncken across four levels of the Monash University Caulfield

Library, delivering a blend of standard and 'bespoke' library shelving. The Raeco team has supplied and installed their 'Linea' metal shelving range, along with custom design perforated metal bay end panels and dust covers. The unique design required the development of prototypes for approval before installation began. Work commenced on the site in June 2016, with installers working to erect the shelving across the floor level as directed by Hansen Yuncken.

The perforated 'Bay End' panels instantly provide a distinctive look and along with paint colour 'Matt Canvas' which is used in other libraries of the Monash University group, which creates an inviting environment for patrons using this facility.

Raeco has grown into an international business that is still driven by their passion for working with libraries and institutes.

For more information contact Raeco, 75 Rushdale Street, Knoxfield Victoria 3180, phone 1300 727 231, email support@raeco.com.au, website www.raeco.com.au

Tali Engineering was contracted to fabricate the structural steel framework including secondary steel for the Monash University Caulfield Library in Victoria.

Australian grade steel was installed and finished with Dulux paint products with a metallic finish containing poxy and metallic rich paint. The library will be used to engage, compel and stimulate learning and research at the university.

The team at Tali Engineering are providing a framework that resembles an intricate spider web, which began in July 2016. Careful consideration had to be given to the architectural detail within the shade house design to achieve the sophisticated and creative effect of the library.

Over 16,000 people use the library to participate in intellectual pursuits, so the refurbishments were designed to welcome and stimulate the learning and thinking environment. The structural steel frame needed to be strong, tough and rigid, whilst being aesthetically pleasing as part of the building to promote an intellectual environment for students and staff members.

Tali Engineering is the leading supplier of quality custom structural steel frameworks in the commercial marketplace. The company, consisting of 70 employees, has a variety of projects within Australia including Melbourne, Bendigo, Darwin and Karratha, working within an assortment of commercial premises such as indoor stadiums, swimming pools, stadiums and carparks.

One of their current projects includes the Casey Regional Basketball and Netball Centre Redevelopment in south-east Melbourne, where community spaces, formal meeting rooms, multipurpose rooms and a large function room are available for the wider community.

Cost-effective, durable and stable high quality steel construction solutions, such as that provided on the Monash University Caulfield Library project, have become more affordable and intricate for today's modern designs that provide intellectual, creative or community minded environments.

For more information contact Tali Engineering Pty Ltd, 299-301 Hanson Road, Wingfield SA 5013, phone 08 8240 4711, fax 08 7111 0863, email reception@talieng.com.au, website www.talieng.com.au



Monash University Caulfield Library, Victoria

Below Bureau Veritas HSE provided support, advice and guidance for practical solutions in relation to OH&S requirements.



Bureau Veritas HSE had the unique opportunity to meet and effectively manage occupational health and safety requirements for the Monash University Caulfield Library Redevelopment Project. Bureau Veritas assists clients with occupational health and safety risk management, conduct assessments and provide ongoing support for their clients with extensive experience in both the public and private sectors.

A Hazardous Building Materials Survey was conducted in accordance with the requirements of Division 6 of the Victorian Occupational Health and Safety Regulations 2007, to assess the premises for the presence of hazardous building materials in the form of asbestos containing materials and synthetic mineral fibre products, and for the possible presence of polychlorinated biphenyls and lead based paints. Bureau Veritas identified the location, type and condition of the hazardous building materials with recommendations to minimise the risk of exposure to them during proposed works.

During the demolition and construction phases of the project, Bureau Veritas was on hand to provide support, advice and give recommendations and practical solutions associated with complex

challenges. Clients and associated stakeholders were constantly kept informed with the progress of works, which encouraged a harmonious working relationship to deliver the common goals of the project.

Bureau Veritas is one of the few companies in Melbourne whose senior consultants have a minimum of 25 years experience in Asbestos Management. With such valuable resources, Bureau Veritas is providing support throughout the project using expert scientific instrumentation to accurately assess hazards as they are encountered.

At the head office in Melbourne, Bureau Veritas is fully equipped with a NATA Accredited Laboratory specialising in Asbestos Identification and Air Monitoring in accordance with ISO/IEC 17025. The Asbestos Identification Laboratory and Asbestos Air Monitoring Laboratory can perform rapid turnaround results for all analytical services associated with the project.

For more information contact Bureau Veritas HSE, Unit 3, 435 Williamstown Road, Port Melbourne VIC 3207, phone 03 9922 0700, website www.bureauveritas.com.au