WALTER AND ELIZA HALL INSTITUTE OF MEDICAL RESEARCH

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INSTITUTE GENERAL MANAGER MAUREEN O'KEEFE

NEW WINGS FOR MEDICAL RESEARCH

Baulderstone constructs a new building and refurbishes the existing Parkville building for the Walter and Eliza Hall Institute.

WALTER AND ELIZA HALL INSTITUTE OF MEDICAL RESEARCH / **baulderstone & Walter and Eliza Hall Institute**

Left An interesting angle of the new building constructed.

Based in Victoria, the Walter and Eliza Hall Institute of Medical Research (WEHI) is one of Australia's largest and foremost medical research institutes. It specialises in cancer, immune disorders and infectious diseases. Affiliated with The University of Melbourne and The Royal Melbourne Hospital, the Institute offers postgraduate training as the Department of Medical Biology of The University of Melbourne.

"The Walter and Eliza Hall Institute is home to 600 researchers and research support staff who are working to understand, prevent and treat diseases including cancer – particularly blood cancers and breast cancer – chronic inflammatory diseases such as type 1 diabetes, rheumatoid arthritis and coeliac disease; and infectious diseases such as hepatitis and malaria," said the institute's General Manager Maureen O'Keefe.

Recent times have seen the Institute embark upon a dramatic new phase in its evolution with the redevelopment of the current building and construction of another wing to house a new research facility. "To mark the 90th anniversary of the institute's founding in 1915, the Victorian Government and the Commonwealth Government each provided a $50 million capital works grant. Together with a generous grant of $30 million from The Atlantic Philanthropies, and further funding from the Ian Potter Foundation, Australian Cancer Research Foundation and the Drakensberg Trust, these contributions are enabling us to expand the Parkville building to nearly double its size and thereby grow our research programs to improve health outcomes," Ms O'Keefe said.

"Denton Corker Marshall and S2F were appointed to design our new facility. Our architects-in-association are each national leaders in their fields: Denton Corker Marshall in the development of major institutional and public buildings (Melbourne Museum and Australia's Beijing and Tokyo embassies); S2F in the creation of innovative laboratory designs."

Creating What Matters

Main construction company for the Walter and Eliza Hall Institute site is Baulderstone, a respected Australian company with a rich heritage in building and infrastructure for its clients for more than 80 years.

Today, Baulderstone is one of the largest building and engineering companies in Australia, with more than 1400 people across the country. With its motto, 'Creating What Matters" the company offers a full range of construction services from preconstruction to project closeout to support clients in both the private and public sector. Baulderstone buildings include icons of local and worldwide significance such as the UNESCO heritage-listed Sydney Opera House, Sydney's Anzac Bridge, Brisbane's Story Bridge, Melbourne's Etihad Stadium and Adelaide's Convention Centre.

Baulderstone was contracted to expand the institute's Parkville building to nearly double its size, increasing the floor space from 15,775m^2 to 31,283m^2, thus enabling the institute to expand its research programs, increasing staff from 600 to more than 1,000. The new wing houses seven levels of laboratories and scientific support services whilst the existing building refurbishments include a Clinical Translation Centre, an insectary, animal holding facilities, and advanced cell and tissue imaging and flow cytometry centres.

The project was undertaken in two stages. The first entailed the construction of the new building, including an underground carpark and seven above ground levels. This stage also includes Physical Containment Level 2 (PC2) and Quarantine Containment Level 2 (QC2) laboratories, bioservices facilities, delivery and service facilities, and mechanical plant.

The second stage involves refurbishment of the existing Parkville building, which has been undertaken both during and following construction of the new building. This stage will also consist of PC2 and PC3 laboratories, advanced scientific and information technology centres, and seminar facilities including a 300 seat lecture theatre.

Associated works include tunnel links to the Royal Melbourne Hospital; pedestrian links; loading dock functions; and bulk gases, steam, water, power, data and chilled water services.

So what, if any have been some of the challenges encountered on the Walter and Eliza Hall Institute project?

"Probably the biggest challenges surrounded the requirement to work closely with various stakeholders whilst meet our client expectation within a tight timeframe," said Baulderstone's Project Manager for the site, John Angelovski.

"Another issue involved the fact that we were working on a highly sensitive site, which demanded strict biosecurity controls due to specific levels of containment.

"The project team worked closely with consultants from the Australian Quarantine and Inspection Service (AQIS) to achieve the correct verification process as well as other regulatory bodies to ensure our construction techniques were satisfactory to enable compliance to be achieved.

"By late 2010, Stage One was completed, on schedule and to budget. Refit of the current building is well underway and is expected to be complete by late 2011," John said.

"The institute's management has been very impressed with the quality of the architects, builders and consultant team. They have worked cohesively together and, with the institute's internal project team led by Steve Droste, Facilities Manager, ensured the delivery of a building which meets our expectations and is being delivered on time and on budget," said Ms O'Keefe.

For more information contact Baulderstone, Level 9, South Wharf Tower, 30 Convention Centre Place South Wharf VIC 3006, phone 03 9684 6111, fax 03 9684 6100, website: www.baulderstone.com.au. ***Also for more information contact Walter and Eliza Hall Institute,*** 1G Royal Parade Parkville VIC 3052, phone 03 9345 2555, fax 03 9347 0852, website: www.wehi.edu.au.

Below & Right ThyssenKrupp Elevator did a great job installing five lifts on this important project.

Recognised as a global leader in the elevator and escalator industry, ThyssenKrupp Elevator was chosen to install five elevator systems on the WEHI site.

With global sales of approximately $7.66 billion and 44,000 employees in 900 locations, ThyssenKrupp Elevator provides world class installation, maintenance and modernisation of elevators, escalators and moving walks.

Part of the worldwide ThyssenKrupp group, ThyssenKrupp Elevator Australia Pty Ltd has offices in Sydney, Melbourne, Brisbane, Canberra, Perth, Adelaide, Darwin, Hobart, Auckland and Wellington.

"Innovation, such as our TWiN lift system (2 lifts in 1 shaft), and quality are hallmarks of our products and services and assure lasting customer relationships," says ThyssenKrupp Elevator Australia's Victorian Sales and Operations Manager, Richard Tuckett. "Millions of people use our products, such as elevators and chair lifts, escalators and moving walkways every day."

Behind our company are decades of experience and comprehensive know-how. All areas from the drive system, to the controller with its safety functions, to economical maintenance are included in our all-encompassing systems," he says.

"ThyssenKrupp Elevator's concepts and flexibility meets various architectural requirements. We employ a mix of high quality materials and modern design to present the distinctively aesthetic appearance of our elevators."

For the Walter & Eliza Hall Institute site, the ThyssenKrupp team was contracted by Baulderstone to work on the installation of five lifts including one goods lift, one hydraulic goods lift and three machine room-less (MRL) passenger lifts.

"The ThyssenKrupp machine room-less elevator "Evolution", does not require an independent machine room. The permanent magnet synchronous gearless drive unit is installed inside the shaft, so that the space required for the traditional machine room is eliminated and the cost for building construction is consequently reduced. In addition, this makes the architectural design more flexible and adaptable whilst the sophisticated technology ensures smooth operation and passenger comfort," Richard explains.

Over the nine-month period ThyssenKrupp worked on the project things generally ran smoothly, however, there were some challenges.

"In the passenger lifts the rear and side walls were of glass and open to the atrium," Richard explains. "So that meant when we were dealing with the glass façade we had to ensure that the fit was absolutely correct. Fortunately, we were able to achieve successful outcomes here."

"Other solutions ThyssenKrupp came up with were to provide customised painting of the steel work in the open shaft as well as fitting stainless steel frames around the openings for passenger lifts," he says.

ThyssenKrupp also provided a lift monitoring system (LMS).

"Essentially, this is a computerised system that is controlled by a central database which monitors the efficient and safe working of the lifts," Richard says.

"Our team has completed the major installation project at the Walter and Eliza Hall Institute site, however, there are a few of us still on site finalising further details."

Another recent project where ThyssenKrupp Elevator Australia also achieved successful outcomes was the vertical transport installation at Sydney's Top Ryde Shopping Centre Development in conjunction with Bovis Lend Lease.

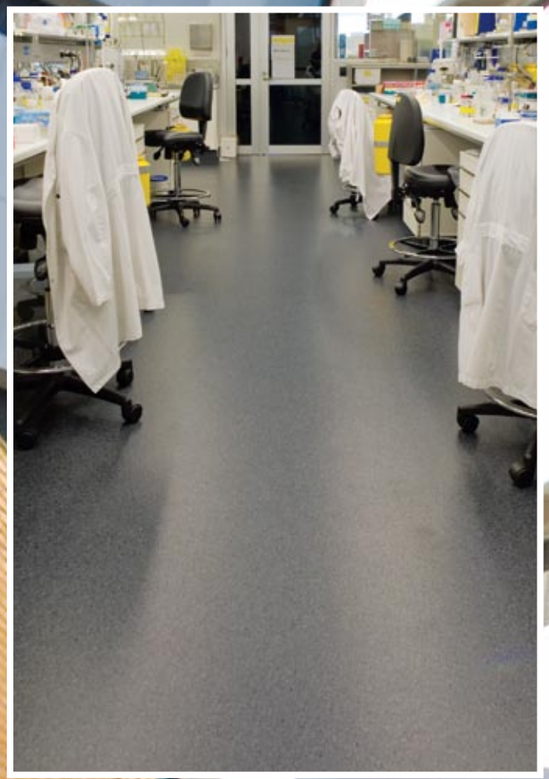
Stage 1 of this mammoth project saw the ThyssenKrupp team install 17 Elevators (4 of which were glass); 18 x Orinoco moving walks and 14 x Velino escalators.

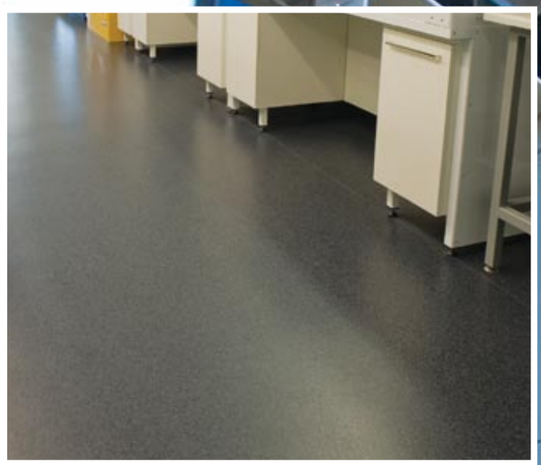
"Embedded in our products are the most economical operation, highest possible individuality, modern and pioneering design, maintenance-friendly construction, and fulfillment of strict safety standards," Richard says.

"We are committed to the ongoing delivery of excellence."

For more information contact Thyssenkrupp Elevator Australia Pty Ltd, Head Office, 18 Huntley Street Alexandria NSW 2015, phone 02 8303 9000, fax 02 9310 4446. ***Melbourne Office,*** 88 Montague Street South Melbourne VIC 3205, phone 03 9682 5300, fax 03 9682 7822. Website: www.thyssenkruppelevator.com.au.

Below Not a flaw in the flooring surfaces laid by Gerflor Australaisa.





Below
THE FASTEST SECURITY DOOR IN THE WORLD!
Albany Door Systems installed the Rapid Roll 3000 high speed security door systems for security and access flexability.

Installing hardwearing, resilient and easy-care flooring surfaces throughout the complex was a vital requirement for the Walter & Eliza Hall Institute, which was successfully met by Melbourne-based company Gerflor Australasia.

An international flooring group that specialises exclusively in providing innovative resilient product and design solutions, Gerflor draws on its global capability to create, manufacture and continuously improve the colour, design, wearability and environmental compatibility of its product portfolio.

With 50 years of experience in the industry, the company boasts a network of highly trained specialists who work with clients across many business sectors including commercial office, health and aged care, education, retail fit-out and sport.

Major projects featuring in Gerflor's portfolio include the Sydney 2000 Olympic Games and the Commonwealth Games in Melbourne as well as hospitals and other high profile public buildings around the nation.

The Walter & Eliza Hall Institute project saw Gerflor specialists collaborating with some of the country's major designers of laboratory spaces to achieve specific technical requirements across many areas of the building. Successful outcomes for the project were delivered with only minor challenges along the way.

New techniques were used to install the floor in one laboratory so as to provide buffers for trolley traffic passing through. Gerflor's highly durable, hygienic flooring product, Taralay Premium, was also used to afford the necessary level of slip-resistance and easy maintenance demanded in the sensitive environment of this top-flight research facility.

Backed by its global design and manufacturing specialists, Gerflor Australasia is well placed to meet local resilient flooring needs. Service and support are hallmarks of the local subsidiary which celebrates its Silver Anniversary this year. Trained professionals are on hand to assist customers in the selection of products that best suit their specific requirements.

Qualified installers are part of the Gerflor network, which is supported by state-of-the-art warehousing and logistic services.

For more information contact Gerflor Australasia, 17 Cato Street Hawthorn East VIC 3123, phone 1800 0600 785, website: www.gerflor.com.au.

Established since 1968, Albany Door Systems is renowned as a world leader in high performance doors for the industrial sector.

Albany Door Systems High Performance Doors can be found in operation throughout a wide variety of industries and in a varied range of applications where separation of environments, speed of material or vehicle flow, and safety of persons or other objects is critical.

For the Walter & Eliza Hall Institute project, Albany Door Systems was called on to supply and install its specialised Rapid Roll 3000 (RR3000) high speed security door systems on site for the car park entry/exit and dispatch area.

Albany's National Product Manager Andrew Bykersma says the choice was made to use the innovative RR3000 system because of the high usage nature and safety requirement of the areas involved.

"The Rapid Roll 3000 is a stylish high performance door that has operating speeds of up to three metres per second. It is also designed to carry out a high number of cycles, which make it the ideal solution for sensitive areas experiencing high levels of traffic," Andrew says.

"Traditional types of roller shutter systems were not suitable for the job as often they are required to complete a high number of cycles per day, which is both time consuming for the user and detrimental to the life of the door. This means the roller shutter door is usually left open, giving access to sensitive areas, which require a security barrier to deter and prevent access by unwanted personnel and the public.

"We installed the RR3000 system on site for the Walter & Eliza Hall Institute project to deliver enhanced security and flexibility," Andrew says.

In use by corporations such as GE Finance, Qantas, Toyota, Air New Zealand International, Ford and Holden, the RR3000 system features patented disc drive technology to reduce wear, vibration and noise during operation. Its patented Contactless Safety Edge® detects objects anywhere in the door path and reverses the curtain, thus maximising safety and reducing maintenance costs associated with potential collisions.

For more information contact Albany Door Systems (Head Office), 9 McIlwraith Street Wetherill Park NSW 2164, phone 02 9756 4330, fax 02 9756 4340, website: www.albanydoors.com.