

# Built Pedagogy

## 05.1.1

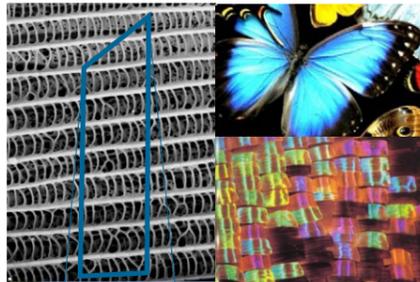
Above any other faculty, the very fabric of the New Building for the Faculty of Architecture, Building and Planning must function as an experiential resource for research, teaching and knowledge transfer. This presents a rare opportunity for profound, intrinsic and meaningful links between building programme and architectural expression

*Cultural resources can engage communities in collective experiences, providing opportunities for reflection and conversation on the never-ending questions of how we make our lives meaningful, our work valuable and our values workable.*  
**Growing Esteem, 2005**



### Collections and Research Building Australian Museum, Sydney

Seeking to learn about sustainable building through study of the natural world, the double skin façade is a collaboration with the Museums scientists - a visible, intrinsic and poetic link between architectural expression and the institution's identity. Nature's golden ratio and the filigree of a moth's wing scale, seen through a scanning electron microscope, inspire the glazing pattern. Innovative inventive use of dichroic glass and advanced concealed edgelighting produces dynamic colours through optical interference as do iridescent butterflies.



### Urban Design Exemplar Integration with Environment Enduring, High Quality, Timeless Distinctive Materials and Detailing

#### National Portrait Gallery Canberra, Australia

Won in open international competition and completed in 2008, the National Portrait Gallery is the most significant new national institution in the Parliamentary Triangle for almost 20 years.

An outstanding and recognisable symbol of a unique institution, it responds to the urban design masterplan principles for activation of, and connection and integration with the Arts and Civic Campus, the community and city through the Canberra city plan.

The design draws inspiration from Canberra's unique natural light, the essential character of Australian rural structures, the institution's purpose: to increase the understanding of the Australian people through portraiture.

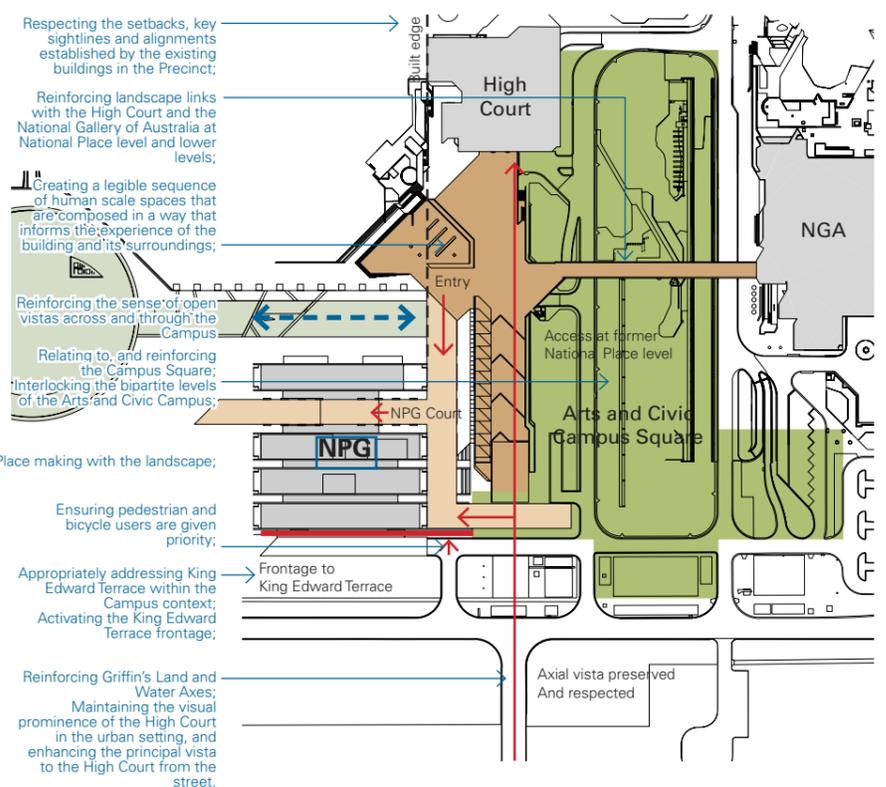
Identifiably of its place and time, elegant planning and formal expression convey the diversity creativity and openness of the Australian character.

The building embraces its setting, and links the visitor's experience of the gallery spaces to the Australian landscape, with views into the landscape from transition spaces and controlled natural light illuminating the galleries and inspires an interest in architecture, construction and urban design.

The Gallery Building reinforces the horizontal lines in the landscape and respects, engages with and reinforces the character of the Precinct established by the High Court and the National Gallery of Australia;



Canberra - City and Environs, Griffin Legacy Framework Plan, NCA, 2004. The design reinforces the National Capital Authority (NCA) plan for the Arts and Civic Precinct which builds on Commonwealth of Australia Federal Capital Competition: City and Environs 1912 Competition Plan, Walter Burley Griffin and Marion Mahony Griffin



Urban design issues related to the site and campus; Integration with the natural and built environment

# The Academic Environment

## 05.1.2

In a number of research and education projects, Johnson Pilton Walker has created a sense of community through a range of attractive integrated academic environments which inspire both individual and collaborative work and facilitate research and long term commitment

*As a university with a strong sense of place, Melbourne reaffirms the unique virtues of its campus locale, where face to face teaching remains the norm, where scholars gather from across the globe, and where learning communities embrace evolving technologies.*  
**Growing Esteem, 2005**



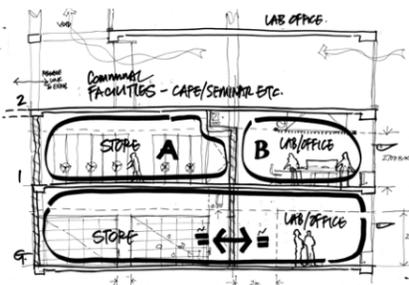
**Creation of Academic Community  
 Visible Social Building Integrated with Campus  
 Flexibility and Choice in an Inspiring Collaborative Environment  
 Professional Interaction through Adjacency, Pathways and Encounters**

A lively mix of student meeting, congregation and passive outdoor spaces that enjoy the gully vegetation are created in the microclimate of protected, shaded walkways, wide eaves and undercroft spaces - a direct response to place and tropicity.



**Rupert Myers Building  
 UNSW, Sydney**

A general purpose and teaching building of 4-5 storeys of the Department of optometry and Unisearch (a research arm of the University of New South Wales). It is a "gateway" Building, which sits next to the main southern entrance of the University incorporating academic facilities, lecture halls, laboratories and clinics within it.



**Collections and Research Building  
 Australian Museum  
 Sydney**

The Museums ambition to attract quality research scientists to the Museum is fulfilled through provision of the optimum research environment where workspace areas are adjacent laboratories which are in turn adjacent collection storage. In the building, a central linear corridor runs between collection storage and labs and scientific workspace. The design of labs and shared workspaces further fulfils the Museums objective to creating a collegiate environment for pursuit of research objectives within supportive milieu.

**Science & Engineering Building,  
 UNSW Asia, Changi, Singapore**

Johnson Pilton Walker won the invited design competition for the Science & Engineering Building at UNSW Asia, the new campus for the University of New South Wales in Singapore. It is a component of the first stage of this "garden university in a garden city".

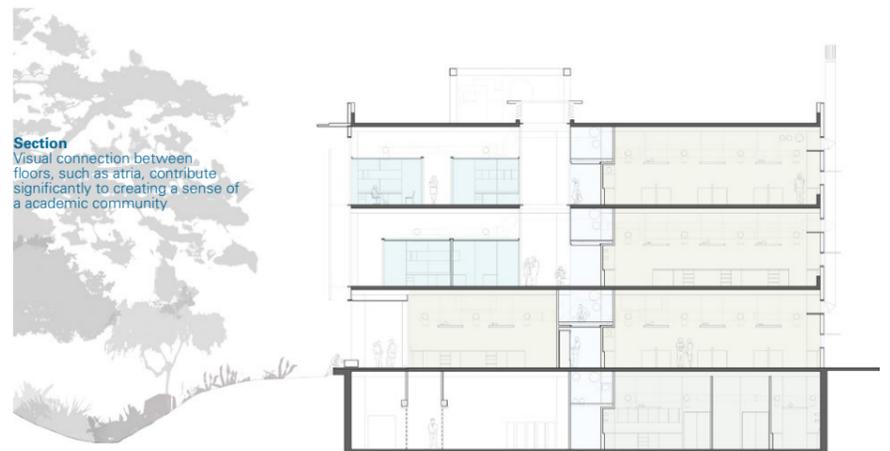
The Building responds directly to the University's vision and culture of a high quality learning and teaching environment that encourages local community, multidisciplinary and professional interaction.

The creation of community and collaborative environments through shared facilities and integration with other functions on campus was a key driver for the building's design and siting within the campus landscape.

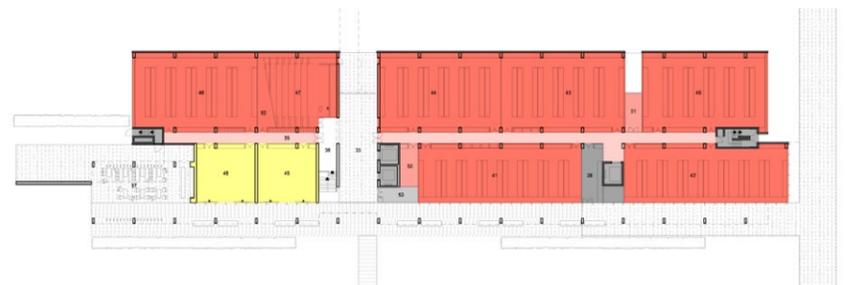
The building visibly expresses its relationship and contribution to campus life, its harmony with nature, its environmental sustainability and its value for money.

The 8000sqm building comprises a range of spaces - high quality undergraduate teaching facilities, research laboratories, and office accommodation.

In keeping with the University's commitment to ESD leadership and to the Tallories Declaration, this building is designed to achieve a Platinum Green Mark, Singapore's highest award for environmental sustainability.



**Section**  
 Visual connection between floors, such as atria, contribute significantly to creating a sense of a academic community



**Ground - Level 1**  
 Generous public areas provide places for people to enjoy and congregate in. The student lounge is in a sheltered undercroft space within a landscape setting. Primary pedestrian access is along a deep shaded colonnade along the finger gully leading to the main lobby and 'grand stair' that connects the next floor above.



**Level 2, 3 & 4**  
 Flexibility and choice within an inspiring academic work environment - adjacent academic offices and teaching spaces open onto informal circulation and lounge spaces exposed along the front façade, encouraging enjoyable academic interaction, with the gully and providing an active frontage viewed from the Verandah.

Expression of Interest / Architectural Design Competition  
 New Building for the Faculty of Architecture, Building and Planning  
 University of Melbourne / May 2009  
**Johnson Pilton Walker**

# The Design Studio

Educational buildings play a critical role in nurturing and inspiring the inquisitive mind through creation of flexible stimulating environments enabling staff and students to immerse themselves in pursuit of knowledge through both experimentation and discourse both between student and scholar and amongst students themselves

*This is a place where great scholars lead talented students to open their minds, share wisdom and face the great unknowns: a place where each new generation can define a future that it values.*

**Growing Esteem, 2005**

## 05.1.3



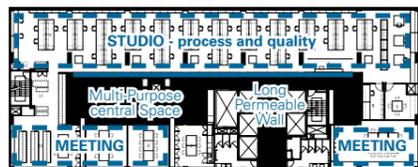
### JPW Studio Interior Sydney Australia

JPW's studio is a clear realization of the design ethos and culture of the practice: which seeks to turn constraints into opportunities and to develop highly innovating lasting contributions to our built environment within a collaborative studio in which research, teaching and learning are core values - a number of staff are actively involved in research and teaching at Sydney architecture schools.

The studio is focused around a multi-purpose central space, defined by a soap finished timber floor, used for a variety of events and activities: staff talks and presentations, formal and informal meetings, and entertaining.

Visitors receive glimpses into studio areas through a long permeable wall, which provides an interface between the studio and the multi-function space, giving a sense of openness and transparency whilst maintaining a level of acoustic and visual privacy for staff.

The studio is equipped for flexible use of the latest technology.



### New Typologies of Knowledge and Exchange

#### Innovative Approaches to Spatial Organisation and Blurred Boundaries

#### Flexible Student Centred Formal and Informal Learning Spaces

#### Studio Based Practice Culture and Staff involved in teaching

### Abbotsleigh Research Centre Sydney Australia

Abbotsleigh Research Centre is founded on two concepts:

- The physical collection of knowledge (both the physical and virtual library) provides inspiration for learning; and

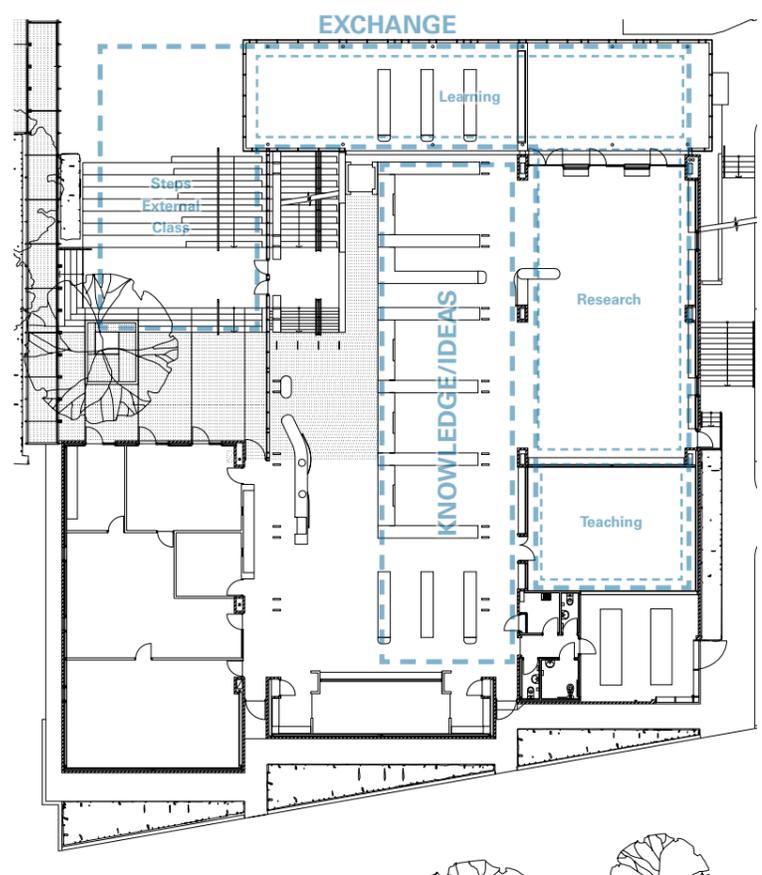
- Using the way in which the collection is stored as the fundamental design principle, the buildings proportion, scale, materiality, detail and function are united in an environment which inspires pursuit of knowledge and engagement with and exchange of ideas.

A range of interior and exterior teaching, social and research spaces across 3 levels step down the existing site, creating a new civic meeting space linking the eastern and western sections of the campus.

A wide set of brick paved stairs creates tiered seating for external classes and extends into the building, blurring the definition of inside and out.

Curved timber "clouds," acting as acoustic baffles, float above timber book stacks framed by paired laminated timber frames.

The form, space, materials and facilities of the Centre combine to create an inspiring place for individual and group research.



# The Living Building

## 05.1.4

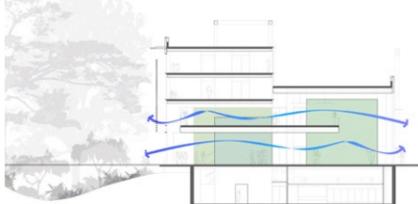
The work of Johnson Pilton Walker is predicated on a strong environmental initiative - valuing resourceful and innovative systems which create places where people are happy to work, that are efficient to run, with healthy indoor air quality, low energy, material and water use, good urban connections and excellent design.

*'The University should define itself by what it values and not by rankings or numbers'* Undergraduate students' focus group  
**Growing Esteem, 2005**



**Darling Island Stage 3 Pymont, Sydney, Australia**  
 Responding to site orientation, Darling Island Stage 3 provides a minimum of five-star Green Star office building. Additional systems can be incorporated to enhance this to a six-star outcome.

The use of chilled beams reduces greenhouse emissions 30% and floor to floor heights. Harbour water will be used for mechanical plant heat rejection, eliminating the need for cooling towers. Multi-Water Reuse plant will provide clean water from on-site treatment of various grey and black water sources for non-potable usage.



**Science & Engineering Building, UNSW Asia, Changi, Singapore**  
 Key ESD considerations include; Energy consumption is minimised through sensible passive design [shading and building orientation] which reduces mechanical load. Layering and transition spaces control and reduce glare, improve visual and personal comfort. Façade design optimises daylight penetration whilst screen element blocks direct solar heat gains. Mix-mode ventilation, including thermal buffer zones where the use of spill air and tempered environments in transient spaces, improves energy efficiency whilst maintaining amenity.

### Benchmark Buildings, Pilot Projects and Sustainability Awards Innovative and Holistic Systems Visibly integrated in Architectural Expression Flexibility and User Control

#### 8 Chifley Square, Sydney [Invited Competition Entry]

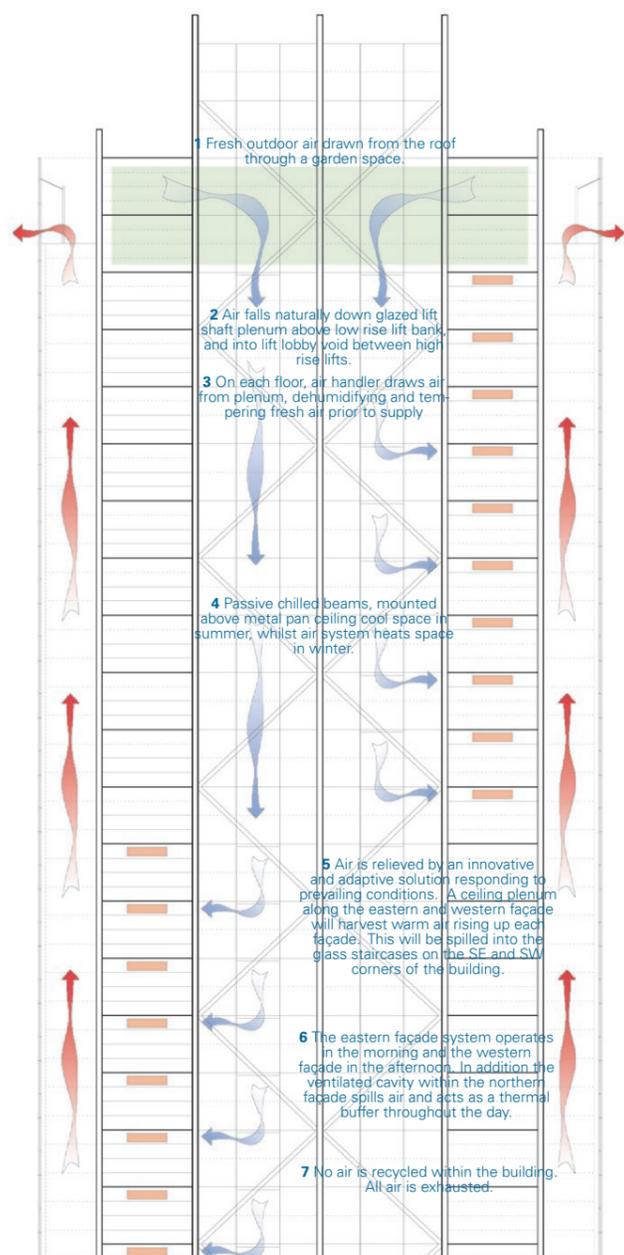
The design proposal for this premium commercial building incorporates an innovative and inventive services solution to promote best practice Indoor Environmental Quality and Energy Efficiency. The integrated solution harnesses the best available techniques to achieve maximum natural lighting and occupant comfort while minimising energy, air and water use

This is achieved through a number of initiatives which include:

- 3m high ceilings
- Light shelves and low E double glazing to the East and West
- Dual skin façade to the North to passively relieve hot air from the building and provide thermal buffering
- Fully passive chilled beam air conditioning system
- Floor by floor air handling plant to handle the primary outside air supplied to the building
- Transparent glazed lift shafts within the lifting voids used as passive air plenums for supply of fresh air to the building
- Densely planted roof garden spaces passively filter incoming air to the building

Fresh air is a critical component in the creation and delivery of modern premium office buildings. The air cycle proposed is illustrated opposite.

JPW staff includes a number of Greenstar Accredited Professionals.



# Capability and Process

## 05.1.5

Johnson Pilton Walker has a pro-active multi-disciplined design approach, seeking to turn constraints into opportunities and to develop highly innovative solutions. The pursuit of excellence is our fundamental aim, which can only be achieved through responsible design, technical expertise and competent project management.

*They create a Melbourne Experience grounded in one place but with many points of entry to a world of ideas, expertise and possibilities.*  
**Growing Esteem, 2005**

Governor Phillip Tower, Sydney



**Westpac Place, Sydney**  
**Selected Work**

**UNSW Asia New Science Building Singapore**  
 Education; 8000sqm; SGD \$30m

Mr Paul Turner  
 Director of Campus Development, UNSW  
 +61 2 9385 383

**Rupert Myers Building, UNSW, Sydney**  
 Education; AUD \$25m

Mr Paul Turner  
 Director of Campus Development, UNSW  
 +61 2 9385 383

**Abbotsleigh Research Centre, Sydney**  
 Education; 3000m2; AUD \$15m

Judith Poole  
 Headmistress  
 +61 2 9473 7777

**National Portrait Gallery, Canberra**  
 Cultural; AUD \$50m

**Australian Museum Collections and Research Building, Sydney**  
 Cultural; 8000m2; AUD \$40m

Mr Frank Howarth  
 Director Australian Museum  
 +61 2 9320 6000  
 Mr John Gale  
 Director Gale Planning Group  
 +61 2 9264 4475

**Westpac Place, Sydney**  
 Commercial; 80,000 sqm; AUD \$300m

Mr Andrew Cooper  
 Manager NSW Leighton Properties  
 +61 2 9925 6680  
 Ms Lyn Lennard  
 General Manager Group Property  
 Westpac Banking Corporation  
 +61 2 8253 3099

**Hilton Refurbishment**  
 Hotel; AUD \$200m

George Mansour  
 Area Director of Engineering  
 Hilton International  
 +61 2 9266 2000

**363 George St, Sydney**  
 Commercial; AUD \$200m; 40,000m2

**Governor Phillip Tower**  
**First Government House Site, Sydney**  
 Commercial; 60,000m2; AUD \$200m

**Britomart Precinct**  
**Auckland, New Zealand**  
 AUD \$350m

A comprehensive selection of our previous work is available for viewing at [www.jpw.com.au](http://www.jpw.com.au)

**Collaboration Essential To Success**  
**Innovative Projects of Varied Type**  
**Long-standing Team with breadth of experience to Meet Tight Programmes And Budgets**

Johnson Pilton Walker has considerable experience in design and documentation of large scale tertiary education buildings and campus masterplanning and urban design. Our experience is also extensive in consultation and consideration of complex conglomerations of stakeholders. We are also very familiar with undertaking new work within existing complexes and campuses where interaction with existing facilities and services is critical.

Johnson Pilton Walker is a longstanding, award winning Australian practice and a studio culture with an established team of over 40 highly experienced architects, landscape architects, and urban designers all of whom are committed to achieving projects of excellence.

From our single Sydney office, JPW successfully completes projects in a variety of locations throughout Australia and the world including China, Vietnam and New Zealand. Each project has its own requirements and JPW is flexible and adaptable to each specific project. The New Building for Faculty of Architecture Building and Planning at University of Melbourne, similar to the National Portrait Gallery in Canberra, would require much work to be undertaken in Melbourne.

Directors and Associates maintain a detailed involvement throughout all stages of all JPW projects.

"Only one highrise of genuine distinction has been built in central Sydney in the last few years, it seems to me, and that is the Governor Phillip Tower ... a building that isn't just superficially exciting, but has the visual intelligence and social generosity of really fine architecture and in particular the foyer ... is grandly scaled and ... works beautifully in its effort at place-making."  
 Time magazine's art critic, Robert Hughes, Sydney 1999

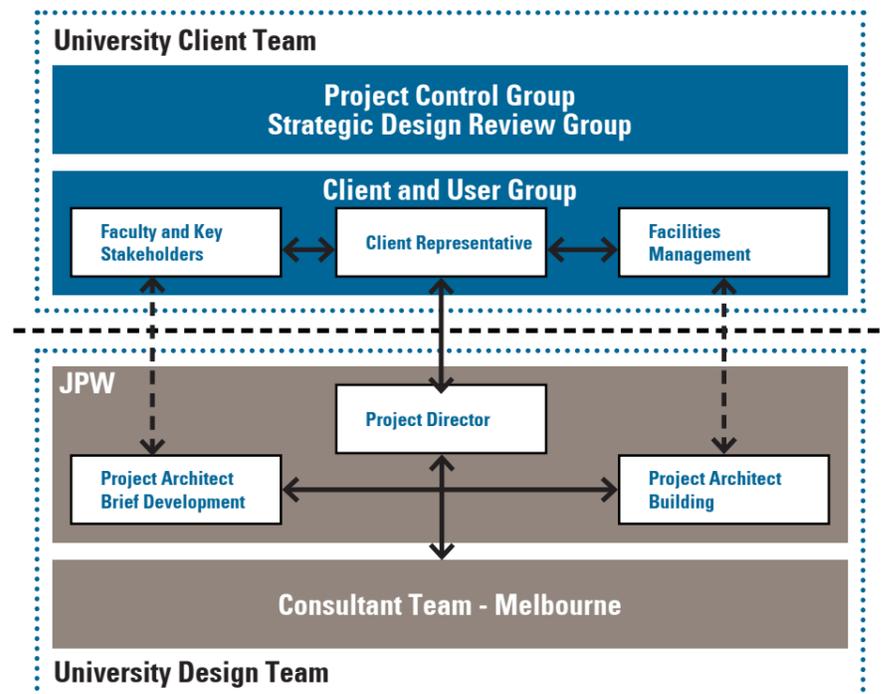
**Collaboration**

Our current University experience informs a team structure that can collaboratively develop the brief and the building in parallel.

The principal reason for the proposed process of collaboration below is to find the best solution. By applying imaginative solutions, we can develop real planning and cost advantages. As well as some of the nation's leading cultural institutions, we have some of the most successful commercial developers as clients.

Following appointment, the following systems, procedures and activities would be implemented:

- Initiate and develop continuing analysis and dialogue with the Faculty and key stakeholders**
- Development of the Brief**
- Establish a Strategic Design Review Group**
- Establish the Design Team Forum**
- Workshop Sessions**
- Peer Design Reviews**
- Value Engineering**



# Merit

Johnson Pilton Walker has a proven ability to consistently design major award winning projects of national and international significance

*As a fine academic institution, Melbourne honours its traditional promise to uphold the scholarly values of intellectual freedom, honesty, openness and rigour.*  
**Growing Esteem, 2005**

# 05.1.6

Hilton Hotel Refurbishment, Sydney



**2008**  
Interior Design Award (Public/Institutional) Commendation for the Arts of Islam Exhibition AGNSW

**2007**  
AILA NSW Merit Award for Research and Communications for RTA Noise Wall Design Guidelines  
API (NSW) excellence in property award for Westpac Place  
RAIA NSW Architecture Award (Lloyd Rees Award for Urban Design) for Westpac Place  
RAIA NSW Architecture Commendation (Commercial Architecture) for Westpac Place  
Interior Design Awards (Public & Institutional Interior Design) for Abbotsleigh Research Centre

**2006**  
Sustainable Energy Authority (SEDA) 1st Prize Western Sydney Regional Parklands Competition  
NSW Urban Taskforce's Development Excellence Award  
Australian Stone Architectural Award for Sydney Hilton  
RAIA National Award (Commercial Buildings) for Sydney Hilton  
RAIA NSW Architecture Award (Commercial Award) for Sydney Hilton  
RAIA NSW Architecture Award (Civic Award) for Sydney Hilton  
Sustainable Energy Authority (SEDA) Energy Efficiency Award for the Hilton Hotel, Sydney  
National Winner Interior Design Awards for Corporate Interior Design for the JPW Office, Sydney  
Best of State Interior Design Awards for Commercial Interior Design for the JPW Office, Sydney  
First Prize China Architectural Project Luban Award for the Suzhou Logistic Centre, China

**2005**  
First Prize International Design Competition - National Portrait Gallery, Canberra  
First Prize UNSW Asia Science and Engineering Building Competition  
Joint Winner - Western Sydney Parkland Ideas Competition  
Australian Timber Design Award for JPW Office, Sydney  
First Prize International Design Competition - Chinese Taxation Bureau, Suzhou  
First Prize Laguna Quays Design Competition, Queensland  
First Prize CTS Tower Design Competition, Shenzhen China

**2004**  
RAIA NSW Architecture Award (Public & Commercial Buildings) for AGNSW

**New Asian Galleries**  
RAIA National Architecture Award (National Commendation for Public Buildings) for AGNSW Asian Galleries

**2002**  
Lightweight Structures Association of Australia Award for Excellence for the Glass Entry Box at 363 George Street, Sydney  
First Prize, International Competition, Qing Dao Commercial Development, China

**2001**  
1st Prize Suzhou Boulevard International Competition, PRC

**2000**  
International Marmi E Macchine Marble Architecture Award for 363 George Street Sydney

**RAIA NSW Architecture Award (Commercial) for 363 George Street, Sydney**  
RAIA National Award for Commercial Architecture for 363 George Street, Sydney

**1999**  
AILA Merit Award for Achievement in Landscape Architecture for Rupert Myer Building, UNSW  
AILA NSW and ACT Groups, Merit Award Achievement in Landscape Architecture in recognition of Rupert Myer Building Physics Lawn, University of New South Wales

**1998**  
AILA National Merit Award for Public Open Space, Pyrmont Bay Park, Stage 2

**AILA National Merit Award for Transport and Infrastructure, Australian Technology Park, Sydney**  
Lightweight Structures Association of Australia Award for The Royal Agricultural Show Entry Structures, Homebush Olympic Site, Sydney

**1997**  
RAIA National Walter Burley Griffin Award for Urban Design for Pyrmont Bay Park Stage 2, Sydney  
RAIA NSW Chapter Merit Award for Architecture for Museum of Sydney  
RAIA NSW Chapter Merit Award for Civic Design for Pyrmont Bay Park Stage 2, Sydney

**1996**  
AILA Award in Landscape Excellence for Urban Design of First Government House Project, Sydney  
AILA Project Award in Landscape Architecture (Planning) for Martin Place Master Plan and DCP, Sydney

**1995**  
RAIA NSW Chapter Lloyd Rees Award for Civic Design for First Government House Place. Jointly awarded

**to Denton Corker Marshall and Janet Laurence and Fiona Foley**  
Internationale Marmi E Macchine Marble Architectural Award for Interior Design (with a special mention for Urban Design) for Governor Phillip Tower, Sydney

**1994**  
RAIA NSW Chapter Sir John Sulman Medal for Governor Phillip Tower, Sydney  
RAIA National Commercial Architecture Award for Governor Phillip Tower, Sydney

**1993**  
RAIA NSW Chapter Merit Award for Outstanding Architecture for Loyola College, Rooty Hill  
RAIA NSW Chapter Country Division, Boral Timber - Timber Design Award for Burrawang West Station, Condobolin, NSW  
Kajima Design Award for Burrawang Resort, Condobolin, NSW

**1992**  
RAIA National Architecture Award, International Award for Australian Embassy, Beijing  
Winner Dulux Colour Awards (Commercial Interior) for Australian National Maritime Museum, Sydney  
Grand Prix Dulux Colour Awards for Australian National Maritime Museum, Sydney

**1990**  
AILA National Project Award (Infrastructure) for Parliament House Access Roads, Canberra  
AILA National Project Award of Merit (Civic Design) for Victoria Avenue Mall, Chatswood  
AILA National Project Award of Merit (Parks and Recreation) for John Knight Memorial Park, Belconnen, ACT  
AILA National Project Award of Merit (Planning & Analysis) for Tuen Mun Harbour Centre & Lagoon Study, Hong Kong  
Commendation, Sydney Showground Urban Design Competition

**1988**  
RAIA National Presidents Award for Powerhouse Museum, Sydney (shared: DCM as Principal Design Consultants)  
RAIA National Interior Architecture Award for Powerhouse Museum Sydney (shared: DCM as Principal Design Consultants)  
Commendation, Dulux Colour Awards (Commercial Interiors), Spanish Pavilion Expo '88

The Utzon Room; Sydney Opera House



"I am delighted that Richard Johnson and his firm have been appointed to draw up a Masterplan and am confident that we can collaborate. In this way I'm sure the concept of the Sydney Opera House and its surroundings will be protected in the best possible way."  
Jorn Utzon, Architect

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**Johnson Pilton Walker**