

COMPANY PROFILE EDUCATION







WHO IS MARSHALL DAY ACOUSTICS?

Marshall Day Acoustics is one of the world's leading firms of acoustic consultants, providing the highest standard of architectural and environmental acoustic consulting to our clients.

For over 30 years, we have been providing innovative acoustic designs on major projects in over 15 countries and employ over 85 professional staff in offices in Australia, New Zealand, China, Hong Kong, and France.

As one of the largest acoustic engineering firms worldwide, we are able to provide our clients with the greatest range and depth of experience and expertise available.

Our strength in acoustic design comes from the diversity of our team members who have been drawn from engineering, architectural, musical and academic backgrounds, with one common focus; to provide innovative acoustic designs of the highest standard.

From concert halls to wind farms and everything in between, we have experts in every field of acoustics who have the specialist knowledge required to deliver quality project outcomes.









"I regard the acoustic designs of Marshall Day Acoustics to be amongst the finest and probably the most innovative in the world"

Dr Anders Gade, Associate Professor Technical University of Denmark

Marshall Day Acoustics - Education



A COLLABORATIVE APPROACH

We have a collaborative approach to design and work as part of an integrated team with the client, architect and other consultants. We do not specify acoustic performance that "must" be achieved but instead we work with the project team to develop acoustic criteria and treatment that meets the desired project outcomes, whatever they may be. Recognising commercial realities and achieving an appropriate balance between quality and cost objectives is something we take very seriously.

QUALITY ASSURANCE

Marshall Day Acoustics is a professional organisation with a quality management system certified in accordance with ISO 9001:2015. We have a number of quality assurance procedures in place to ensure that:

- All reports are checked and then countersigned by a senior member of staff prior to issue
- Measurement procedures are standardised
- Calculations are performed using standard data and validated methods defined in our technical binder system. Standard calculation checklists will be used on this project
- We have a range of software that has been developed inhouse. Together with our master technical binder system, this allows us to adopt a uniform approach to calculations, which can then be more readily checked
- Use of the online intranet design advice and document register system

"Marshall Day Acoustics brought imagination and resourcefulness to the task... Their work has set a new standard."

Donald L. Bates, Project Director, Federation Square, Melbourne – Lab Architecture Studio









TECHNICAL AND DESIGN CAPABILITIES

We are at the cutting edge of development in the acoustic industry. We are committed to being at the forefront of research and development in our field and have employed significant time, energy and resources into ongoing development of our in-house and commercially available tools across a range of sectors including concert halls, theatre design, building acoustics, environmental noise modelling, intelligent noise loggers, underwater acoustics and more.

Marshall Day Acoustics provides a unique combination of design skills, research knowledge and predictive techniques to ensure the client's requirements are achieved. The firm has a range of acoustic design tools including the facility to carry out computer modelling and also scale model testing on physical models as small as 1:50. This allows the accurate prediction of the objective acoustic properties and simulation of subjective qualities before they are constructed.

Marshall Day Acoustics is a world leader in the development of commercially available sound insulation predictive tools for consultants and engineers. Our proprietary software has sold more than 1900 licences in 22 countries. All of the Marshall Day Acoustics offices are linked via a company intranet which indexes the collective experience of our consultants, providing access to solutions developed over many years of consulting projects.

Marshall Day Acoustics is committed to improving our delivery of quality and to enhancing our reputation as suppliers of quality acoustic consulting services, in all of our markets.

"MDA has developed a unique collaborative process involving 3-dimensional technologies to deliver proficient, yet original design accomplishments. The internationally recognised success in the acoustic designs of the Guangzhou Opera House is a reflection of this testament."

Woody K.T. Yao, Associate Director, Zaha Hadid Architects







CONSULTANCY SERVICES - WHAT WE DO

ARCHITECTURAL ACOUSTICS

Design or corrective work to make the acoustical environment effective and comfortable. Sound insulation, acoustic quality, speech privacy and the total acoustic design of projects such as music teaching facilities, offices, hotels, reception centres, broadcast facilities and apartments.

AUDITORIUM ACOUSTICS

Complete acoustic consultancy for all communication and performing arts spaces, including theatres, churches, conference rooms, multi-purpose halls and concert halls. Design techniques include state-of-the-art computer and scale modelling.

ELECTRO-ACOUSTIC SYSTEMS

Specialist consulting services for the design and commissioning of sound reinforcement and communication systems for performing arts applications, churches and convention facilities.

ENVIRONMENTAL NOISE AND VIBRATION

Assessment of noise and vibration impact of development proposals, including new roads, railways, air transportation developments and industrial projects. Site noise and vibration surveys, sound and vibration propagation predictions. Recommendations for the enforcement of environmental standards. Presentation of expert evidence for prosecutions or planning hearings. Assistance with development of noise and vibration control policy.

MECHANICAL SERVICES NOISE AND VIBRATION CONTROL

Design, specification, supervision and commissioning of noise and vibration control systems for mechanical plant. Control of all duct, pipe and structure-borne noise.

INDUSTRIAL NOISE CONTROL

Occupational noise surveys, noise abatement, factory planning, design of specialist silencers, screening and industrial enclosures.

Building vibration and structural dynamics estimation of vibration propagation factors in buildings and other structures. Estimate of re-radiated structure-borne noise. Recommendations for vibration control measures. Empirical, theoretical and numerical modelling.

SOFTWARE DEVELOPMENT

Development of acoustics and vibration software, including software for the estimation of sound insulation properties, sound absorption coefficients and environmental noise propagation. Developer of INSUL, Zorba, dBSea and IRIS, and agent for SoundPLAN.

COURSES AND SEMINARS

Provision of courses and seminars in the areas of building acoustics, mechanical services noise control, sound system design, town planning acoustics and SoundPLAN training.





"Marshall Day Acoustics participated fully in the development of insightful, responsive and appropriate designs for the acoustic and vibration issues across the entire project"

Donald L. Bates, Project Director, Federation Square, Melbourne – Lab Architecture StudioDenmark



EDUCATION

Clear and intelligible speech communication is essential to the learning process. Excessive background noise and high levels of reverberation make speech difficult to hear and understand.

In school environments, poor classroom acoustics can be a source of low student achievement, off-task behaviour and teacher voice strain. Poor acoustics are especially detrimental to students with hearing, learning or language difficulties. Because children are inexperienced listeners and their hearing system is not fully developed, they are less able to separate speech sounds from other competing sounds and lack the experience to predict from context and "fill in" missing words. Children who continually miss key words, concepts and phrases because of poor listening conditions are significantly disadvantaged.

Acoustic conditions in classrooms must support the wide variety of teaching methods used today. Educationalists place a high value on group work and "incidental learning" – what students learn from each other through gathering information casually. Students learning in small groups need to be able to communicate with each other, and not disturb neighbouring groups. Speech clarity, noise intrusion and sound transfer are the key areas of concern in schools, colleges and universities. Specialist uses such as music and technology provide additional challenges.

Our services on educational projects include:

- Baseline noise and vibration measurements to assist site selection
- Sound insulation design of building façades to protect from external noise sources
- Control of internal sound transfer
- Mechanical services noise and vibration control
- Acoustic design of specialist areas such as lecture theatres and performance spaces











VICTORIAN SCHOOLS PUBLIC PRIVATE PARTNERSHIP PROJECT, STAGE 1

Architect: Hayball / Gray Puksand Completed: 2011 Budget: \$255 m

In 2009 the Victorian Government, in partnership with Axiom Education Victoria, embarked on the delivery of 11 new government schools in key growth areas in Melbourne. The result has been a transformation of the education sector. From 2009, more than \$16 B has been spent in Australia and New Zealand to provide transformative learning environments.

The Victorian Government's long term vision involved transforming education infrastructure to ensure that all Victorian government schools are equipped to provide high quality education to students, both now and in the future.

A key part of the design was the acoustic philosophy adopted. At the forefront of the project was the introduction of innovative learning environments, which have multi-modal, technology-infused, flexible layouts to accommodate the new generation of learning. Marshall Day worked with the design team to develop flexible acoustic spaces that enable teaching activities to occur concurrently in open plan learning spaces. Significant modelling work was undertaken to demonstrate key parameters such as speech intelligibility and reverberance for the rooms.

Marshall Day is continuing its work with key research bodies, such as the University of Melbourne, to assist in further evaluating and refining education facility designs, and enable teaching staff to implement quality teaching practices in these new environments. The result has been a transformation of the education sector. From 2009, more than \$16 B has been spent in Australia and New Zealand to provide transformative learning environments.







GEELONG GRAMMAR SCHOOL: SCHOOL OF PERFORMING ARTS AND CREATIVE EDUCATION (SPACE)

Architect: Peter Elliott Architecture + Urban Design Completed: May 2015 Budget: \$20.4 m

The new Geelong Grammar School of Performing Arts and Creative Education opened in May 2015 to a 700-strong guest list. The school's brief was detailed and required a whole complex that would nurture creative education through music and drama classrooms, rehearsal spaces, and multi-functional performance spaces.

A large traditional proscenium arch theatre was clearly not the right response to this brief. Marshall Day Entertech's theatre design solution was SPACE; a flexible and technically advanced building consisting of four main elements that work to foster the important philosophy of innovation and creativity in education:

The David Darling Playhouse - A large open space venue with a flexible retractable seating system capable of accommodating up to 1000 people, orchestra pit, and motorised lighting and scenery grids to give almost unlimited options for rigging lighting, drapes and other flown elements.

The Bracebridge Wilson Studio - A studio style space with retractable seating in banks on three sides to seat up to 270. It is equipped with flown motorised lighting and scenery grids and surround drape systems providing a very high level of flexibility.

Multi-Purpose Space and Classrooms - Beautifully adaptable classrooms and a large multipurpose space

Video Presentation System - In addition to the performance spaces, the building itself features a spectacular external projection system that can transform the façade into a colourful beacon, with endless configuration possibilities. The grand foyer space features an impressive suite of video walls and interactive touchscreen learning pods that allow for both traditional foyer multimedia during public functions and also, importantly, as an innovative learning space that can be used to teach the visual and creative arts to suit a range of learning styles.

Marshall day Entertech designed this complete interactive Audiovisual system to seamlessly work together with a central control and processing system designed for easy use by all staff and students. Marshall Day Acoustics was engaged to provide full acoustic design services for the performing arts complex.







CAREY GRAMMAR SCHOOL, MELBOURNE

Architect: Gregory Burgess and Associates Budget: AUD \$16 m

Set over three levels and connected via a large spiral light void and grand staircase, Carey Baptist Grammar School's performing arts centre is an environmentally sustainable building that makes effective use of natural light and ventilation. The Gregory Burgess and Associates designed facility features rehearsal and teaching spaces, green room facilities, offices, a foyer and a large music auditorium.

As acoustic consultants to the project, Marshall Day Acoustics worked collaboratively with the school and the architect to devise solutions for auditorium acoustics, room acoustics, and mechanical and services noise isolation.

The flat floor auditorium features a performance area suitable for a 120 musician orchestra, raked seating for 275 audience members, encircled by a balcony usable for choirs and additional audience seating. Designed as an un-amplified music hall, the versatile space also includes a PA system to enable lecture and theatre use. A large timber acoustic reflector positioned above the performance area acts to enhance the energy to the audience, and theatrical drapes allow the acoustics to be varied to suit the performance.

The theatrical design of the auditorium was undertaken by Marshall Day Entertech and included the installation of lowerable lighting bars and essential theatrical equipment and control systems.

Each of the music spaces is designed around its function, from small tuition and practice studios designed to suit specific instruments, to large singing and band practice rooms. As part of the overall thermal design of the building, many of the classrooms feature exposed slabs rather than ceilings, requiring absorption and acoustic walls panels to balance the exposed concrete.







UTS DR CHAU CHAK WING, FACULTY OF BUSINESS

Principal Architect: Gehry Partners LLP Executive Architect: Daryl Jackson Robin Dyke Architects Client: University of Technology Sydney Completion Date: 2015

Australian-Chinese businessman and philanthropist Dr Chau Chak Wing is the namesake of the new Faculty of Business at UTS. The state of the art building forms a key component in the UTS City Campus Master Plan.

The Dr Chau Chak Wing Faculty of Business will provide lecture theatres, seminar rooms, collaborative teaching spaces, laboratories, group work areas, and academic research and staff office spaces for the UTS Business School. Located in the heart of Ultimo, the new building will also benefit the wider business community with spaces for conferencing, meetings, executive education and lectures available to the public.

Marshall Day worked closely with UTS, Gehry Partners and Daryl Jackson Robin Dyke to determine the functional acoustic requirements for the building while developing the design to meet the intent of the clients brief and architects vision.

The building facade design is a composite of brick and glass sheets, a reference to Sydney heritage and mirror to the surrounding area. In an area with high traffic noise, the facade sound insulation was an important part of the building's design.

One of the key areas of our involvement included the internal sound insulation design to achieve speech privacy between offices. A mock-up of the proposed office construction was built to test the construction materials and methodology to assist in determining the most cost effective way of achieving the brief.

"This building is a symbol of everything UTS stands for – it epitomises our vision to be a world leading university of technology where creativity and innovation intersect."

Vicki Sara, UTS Chancellor Professor











UNIVERSITY OF NEW SOUTH WALES, FACULTY OF LAW BUILDING

Architect: Lyons Budget: AUD \$30 m Completion Date: 2006

The UNSW Faculty of Law is recognised internationally as being one of the great law schools with an enviable reputation for excellence in teaching and research.

In 2004, Lyons won a national design competition for a new building for the Faculty of Law. Opened in 2006, the 12,000 m² building incorporates a 350 seat auditorium, teaching spaces, a Law Library and office accommodation for academic teaching staff.

Other key features of the building include accommodation for all of the University's legal research centres, the Kingsford Legal Centre (KLC) and a Moot Court.

Marshall Day Acoustics was engaged to provide design advice on the entire project. Our scope of services included:

Acoustic design and specification of surface finishes for the lecture theatres and Moot Court

- Assessment of speech privacy between offices and meeting rooms
- Detailed assessment of noise emissions from the roof mounted energy centre
- Noise impact assessment for the project development application
- Assessment of potential construction noise impact



VICTORIA UNIVERSITY LEARNING COMMONS & EXERCISE SCIENCE PRECINCT

Client: John Wardle Architects Budget: AUD \$62.5 m

Located on the north side of the campus facing the Maribyrnong River, the facility is a world class high technology sports science venue.

The facility boasts 1300 learning spaces, 7 large scale laboratories, sleep assessment areas, VO₂ monitoring laboratories and a hyperbaric chamber.

The facility is used by the Western Bulldogs as a training facility.

Marshall Day Acoustics was instrumental in developing the acoustic design which included high levels of sound insulation control for laboratory and sleeping areas as well as reverberation control for the large sports test facility spaces and vibration isolation for slabs where dynamic equipment (such as running machines) were used. Large sections of the facility incorporate isolated floors to mitigate sound transfer.

The building was selected for following awards:

- National Commendation for Public Architecture
- Australian Institute of Architects National Architecture Awards
- Public Architecture (New) Award
- Australian Institute of Architects Victorian Chapter 2011

The acoustic design included high levels of sound insulation control for laboratory and sleeping areas as well as reverberation control and vibration isolation

ST STEPHEN'S SCHOOL DUNCRAIG CAMPUS, WA

Client: Coda Studio

Upgrade of the Primary School at the St Stephen's School Duncraig campus. The library will be converted into learning spaces, and the school has engaged Marshall Day Acoustics to provide advice that will ensure the acoustic performance of the new learning space is in accordance with standards.

WESLEY COLLEGE, VIC

Client: Daryl Jackson Pty Ltd

Design and specification of noise control and room acoustic treatments for extensions to the junior school.

CAMBERWELL GRAMMAR SCHOOL, VIC

Client: Bovis Lend Lease Pty Ltd

Room acoustics, sound insulation and noise control for new \$7.5 m school building.

NOSSAL HIGH SCHOOL SELECTIVE ENTRY SCHOOL, BERWICK, VIC Client: Woods Bagot

Specialist selective entry government school for gifted and high achieving students.

FINTONA GIRLS SCHOOL, WELL BEING CENTRE, VIC Client: Fintona Girls School

Acoustic design for the new sports hall, dance studio and cafeteria complex.

HUME CENTRAL SECONDARY COLLEGE SENIOR CAMPUS, VIC Client: Gregory Burgess Architects

Open plan school environment over two storeys with ecologically sustainable design features adjacent to busy road.

BUILDING THE EDUCATION REVOLUTION PROJECT

Client: Hayball

Development of standardised school designs for the Department of Education

Building the education revolution

STAMFORD AMERICAN INTERNATIONAL SCHOOL, SINGAPORE STAGE 2

Client: Lend Lease Project Management and Construction

\$300 m extension to a large international school in Singapore catering for students aged 2 to 18 years of age, accommodating approximately 2,500 students.

INTERNATIONAL SCHOOL HO CHI MIHN CITY, VIETNAM Client: Cognita Asia

Engaged to provide theatre, AV, sound system and acoustic consulting services for the International School Ho Chi Minh City (ISHCMC) Performing Arts Centre project. The project includes a 350 seat theatre with shared foyer areas, change rooms and all the usual spaces associated with a theatre in a school environment.

SACRED HEART COLLEGE, VIC

Architect: Williams Ross Architects

Design of a Performing Arts Centre with a retractable 200 seat platform for flexible use.

VCA SCHOOL OF DRAMA, MELBOURNE, VIC Architect: Lab+Bates Smart

Sound insulation, noise control and room acoustics design of the Victorian College of the Arts Drama School.

IVANHOE GIRLS GRAMMAR MULTIPURPOSE CENTRE, VIC Client: Ivanhoe Girls Grammar School

New multi-purpose centre for Ivanhoe Girls Grammar school including classrooms, library, offices and cafeteria.

RESEARCH INTO INNOVATIVE LEARNING ENVIRONMENTS

Client: University of Melbourne

Government and industry will work collaboratively to analyse the relationships between quality teaching and innovative learning environments. The new understanding gained through the project is expected to guide developments in pedagogy, policy and design and to produce strategies to improve learning in schools across Australia and New Zealand.

UTS THOMAS STREET BUILDING Architect: BVN + DBJ

Provision of acoustic design and construction advice for the new Faculty of Science and Graduate School of Health. The Thomas St Building includes superlabs, practice and consultant rooms, lecture theatre, seminar spaces and research areas.

ANU HEDLEY BULL CENTRE FOR WORLD POLITICS

Architect: Lyons Architects

Acoustic design of the international studies hub of ANU incorporating lecture theatres, seminar rooms, offices, study and research spaces and a central forum space for meetings and exchanges.

MONASH UNIVERSITY, LEARNING AND TEACHING BLOCK Client: Monash University

client: wonash University

Full acoustic design services for this new teaching block, which will act both as a gateway and transport interchange for the Clayton campus, whilst serving as a flexible studentcentred teaching facility that delivers best practice in sustainable design.

UNIVERSITY OF TASMANIA SMALL ANIMALS FACILITY Architect: Hames Sharley

Benchmarking of existing facilities and provision of acoustic design advice pertaining to external and internal sound insulation. In addition, mechanical services noise control recommendations were provided for the purpose built animal research facility.

LATROBE UNIVERSITY LIBRARY,

5,000 m² library development at Latrobe

BUNDOORA, VIC

Architect: John Wardle

University's Bundoora campus.

Marshall Day Acoustics - Education

UNIVERSITY SQUARE, MELBOURNE, VIC

Architect: Metier 3

Marshall Day provided the room acoustics, sound insulation and noise control design of a complete new campus at the University of Melbourne.

UNSW FACULTY OF LAW BUILDING, NSW

Architect: Lyons Architects

Acoustic design of the new Law Faculty building incorporating a 350 seat auditorium, teaching spaces, a new library and office accommodation.

MONASH UNIVERSITY, BERWICK STAGE 2, VIC

Architect: Woods Bagot

PRECINCT, VIC

Architect: H2O

accommodation.

Marshall Day provided the room acoustics, sound insulation and noise control design of the extension to the Berwick campus at Monash University.

DEAKIN UNIVERSITY CENTRAL

New university precinct with gymnasium,

lecture theatre, classrooms and office

ANU CANBERRA SCHOOL OF MUSIC, STAGE 2, ACT

Architect: MGT Canberra

Acoustic design of Stage 2 of the Canberra School of Music, including a recital room, jazz and classical music practice rooms and rehearsal spaces.

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MONASH SCIENCE TECHNOLOGY RESEARCH AND INNOVATION PRECINCT STAGE 2 AND 3, VIC Architect: DesignInc

The Monash STRIP Stage 2 & 3 project is an extension to the existing STRIP 1 facility. Extensive ESD elements are incorporated into the design including exposed slabs, chilled beams and displacement air-conditioning systems. Marshall Day provided full acoustic design consultancy on the project.

VICTORIA UNIVERSITY LEARNING COMMONS AND EXERCISE SCIENCE PRECINCT, VIC

Client: John Wardle Architects

New purpose built sports facility including sleep assessment areas, VO2 measure, laboratories, teaching spaces. Used by Western Bulldogs as a training facility.

CHISHOLM TAFE, FRANKSTON SCHOOLS TAFE ALLIANCE TRADE TRAINING CENTRE, VIC Client: Gray Puksand Pty Ltd

New trade centre developed as part of Frankston Schools Consortium project.

DEAKIN UNIVERSITY GARS STAGE 1 & 2, VIC

Client: Deakin University

Geelong Accommodation Relocation Strategy project for Deakin University.

UNIX Client Acous buildi future

UNIVERSITY OF MELBOURNE CHEMISTRY BUILDING, VIC Client: S2F Pty Ltd

Acoustic design services for a new chemistry building, including the assessment of 120 future cupboard fans and associated plant.

HOLMESGLEN TAFE, VIC Client: Holmesglen Institute of TAFE New 6 level educational building.

DEAKIN UNIVERSITY INSTITUTE OF KOORIE DEVELOPMENT Client: Deakin University

Community based learning facility for Deakin University.

DEAKIN UNIVERSITY BURWOOD HIGHWAY FRONTAGE

Client: Deakin University

Eight level tower and expansive podium at Deakin University's Melbourne campus, incorporating state of the art sustainable design principles.

VICTORIA UNIVERSITY STUDENT LED HEALTH CLINIC Architect: Woods Bagot

Inter-professional Student Led Health Clinic building at Victoria University's Werribee Campus, includes treatment and consulting rooms, work rooms, office spaces and meeting rooms.

PETER DOHERTY INSTITUTE, PARKVILLE

Client: University of Melbourne

The Doherty Institute is a world-class institute combining research, teaching, public health and reference laboratory services, diagnostic services and clinical care into infectious diseases and immunity in one building. MDA was responsible for the design of acoustic treatment and vibration control.

VICTORIA UNIVERSITY LECTURE THEATRE UPGRADE (FOOTSCRAY PARK BLDG C), VIC Architect: DesignInc

Refurbishment of lecture theatres, classrooms and tutorial rooms at Victoria University's Footscray campus.

UOA KATE EDGAR INFORMATION COMMONS, NEW ZEALAND Architect: Warren & Mahoney

The first and largest Information Commons in the University of Auckland's Library system. Marshall Day provided design advice on the acoustic qualities of the public spaces and acoustic performance of the various study rooms.

MELBOURNE BRAIN CENTRE Client: Florey Institute / University of Melbourne

The Melbourne Brain Centre is home to Australia's largest brain research collaboration. MDA provided services for acoustic design and vibration control. Key challenges at the University of Melbourne's Parkville site included the location of highly sensitive laboratory floors with stringent vibration specifications, in close proximity to vibration sources.

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