



Excellence by Design

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Curriculum Vitae – Peter J. Patrick

Professional Affiliations

- Australian Acoustical Society
- Audio Engineering Soc.
- Synergetic Audio Concepts (USA)

Scientific Acoustics maintains an inventory of sophisticated computer modelling and computer aided acoustic analysis platforms second to none in Queensland. The test equipment inventory includes a fully equipped Larson Davis model 824 Type 1 Sound Level meter, the only TEF 20 in Qld, High quality reference microphones and numerous specialised acoustic analysers and electronic systems analysers.

Australia’s first and only advanced seminar for EASE software users was convened in September 2005 by Scientific Acoustics. Australia’s only commercially available frequency shaded Line array for acoustically challenged buildings was built to a concept design and electronic processing specification by Scientific Acoustics.

Scientific Acoustics specialises in auditorium acoustics and sound reinforcement systems. The preferred approach is to work with Architects and building designers at the design stage to provide advise on appropriate construction materials and building shape issues. The sound reinforcement system’s performance is directly affected by the building’s acoustic behaviour. The interaction of building and sound system is checked by scientific acoustics against the most modern standards and is guaranteed to deliver the design performance.

The same detailed analysis and design principles are applied to existing buildings. On-site acoustic analysis is reconciled with a 3D model. Sound system performance is then optimised in the model and a design produced for tender. Heritage listed buildings are well catered for.

Scientific Acoustics is fully capable of designing and commissioning sound systems to meet the AS1670 requirement for a Speech Transfer Index of 0.5 or better. (relates to EWIS system performance)

The business also offers expert reporting on environmental acoustics, Health & Safety and noise abatement.

A wholesale / retail facility is provided for clients in need of a budget conscious source of supply.

Short list of recent projects completed by Scientific Acoustics, in random order:-

Location	Commission
Gladstone – QAL	Design evacuation Siren alarm system for Alumina Plant. Large site covering a number of acres with high level plant operating noise
Toowoomba - St Ursula’s College Salo Centre	Acoustics for building working for Brammer Architects, design sound system for combined performing arts / sporting facility

Toowoomba - St Joseph's College, MacKillop Centre	Acoustics for building working for Brammer Architects, design sound system for combined performing arts / sporting facility
Alice Springs – Araluen Performing Arts Centre	Design sound system for major upgrade (\$250,000.00 budget) and provide technical specification for government tender process
Sunshine Coast – Australia Zoo	Design loudspeaker system for the Crocaceum to ensure all patrons enjoy High Fidelity sound free of echoes in 5,000 seat stadium
Nudgee – Nudgee College Chapel	Design Sound system to deliver clear speech in acoustically challenged chapel circa 1895
Carseldine, Kelvin Grove and Gardens Point – QUT	Building Acoustics and sound system design for R201, W201, Z411 and Z401 Lecture Theatres. All retrofits for existing theatres which did not meet acoustic requirements
St Lucia – University of Queensland	Design sound system for new UQ centre
Toowoomba – USQ	Building Acoustics and sound system design for Allison Dickson Lecture Theatre
Gardens Point – Parliament House	Queensland Legislative Assembly, report on acoustics and sound system design for new sound system
Coolangatta – Airport	Consult for Norman Disney Young consultants to deliver sound system design specification
Malaysia	Building Acoustics and Sound system design for Dewan Cerbaguna multi function hall for DAS P/L Brisbane and Mason Acoustics Thailand.
Hobart – Bellerive Oval	Design Sound System for New South Southern Grandstand in major Cricket ground for JANDS P/L
Toowoomba – St Theresa's Church Curzon St	Building Acoustics and Sound System design
Brisbane – City Hall	Investigate and report on installed sound system capabilities, condition and replacement / repair strategy
Toowoomba, St Bartholemew's Church	Provide Hearing Assistance Loop
St George – St Patricks Church	Design and provide new sound system. 1952 Brick and plaster construction, challenging acoustics.
Hatton Vale - Apostolic Church	Acoustics for new extension working with Kaddatz Architects and design Sound System integrating existing and new building acoustics expansion to 2,000 seats – Heritage listed building with challenging acoustics and challenging sound system requirements.
Gold Coast – Highway Christian Church	Building Acoustics and Sound System design and commissioning for new Church
Thornlands State School Multi Function Centre	Building Acoustics and Loudspeaker system design as retrofits for acoustically challenged building.
Toowoomba – St Lukes Church	Sound System design and installation. 100 year old large sandstone church. Heritage listed building with very challenging acoustics
Toowoomba – Concordia Primary Multi Function Centre	Building Acoustics and loudspeaker system design
Ipswich – St Mary's Catholic Church	Sound System design for tender and contractor supervision. 100 year old large sandstone church. Heritage listed building with very challenging acoustics
Sunshine Coast – Lindlane Theatre	Building Acoustics for new, 100 seat performing arts Theatre for Clifton Coney group
Bridgeman Downs – Baptist Church	Report on Building Acoustics and Sound System
Toowoomba – Concordia Primary Multi Function Centre	Building Acoustics and loudspeaker system design
Gold Coast Guardian Angels Catholic Church	Building Acoustics for major refurbishment.
Thailand – Bangkok	Building Acoustics and sound system design for large conference centre and Lecture Theatre for Mason Acoustics, Bangkok
Cutting Edge post – Oxenford facility	Building acoustics for Mix down Post Production studio.
Griffith University G16 new Lecture Theatres	Room acoustics and sound system design for Paynter Dixon Project managers.
Toowoomba - St Mary's Indoor Sports Facility	Building Acoustics and Sound System design – large building incorporating two basketball courts and critical

	environmental acoustic objectives.
St John's Anglican Church Bairnsdale - Victoria	Sound System design for acoustically challenged space
St Francis Xaviers Church Goodna	Sound System design for acoustically challenged space
Bracken Ridge Baptist Church	Acoustic design recommendations and sound system design for new building
Toowoomba City Council	Consultancy work for Water Pump Noise issues
Scarborough Bowls Club – Redcliffe	Noise Abatement consultancy for Refrigeration Plant
High St Plaza Meats Toowoomba	Noise Abatement consultancy for Refrigeration Plant
Co-ordination of an Advanced course for EASE software users in Brisbane for Acoustic Design Anherit	The seminar is designed to attract advanced users of this specialised software who otherwise would have to attend training in the US or Germany.
Toowoomba – Hume St Church of Christ	Building Acoustics and sound system design for 1,500 seat auditorium.
Gatton – St Mary's Church, Laidley – St Patricks Church	Re-design and refurbish sound systems
Cairns – St Augustines Catholic School	Acoustics and electro acoustic design for muli function performing arts, sports and Choral performance & worship centre.
Caboolture City Council – Caboolture Aquatic Centre	Acoustic & Electro Acoustic design – remedial work on Indoor Olympic Pool with extremely challenging acoustics
Toowoomba SQIT – Multi Media Unit	Design sound recording booth

List of Current Projects in Random Order

Brisbane – City Hall	– Electro Acoustic consultancy (Loudspeaker system) & acoustic work in Main Auditorium. Very Challenging Acoustics in large old auditorium – round shape with dome ceiling.
Tennyson Tennis Centre development – Brisbane	Responsible for Sound Reinforcement system design in co-operation with joint venture partner Palmer Acoustics who have the commission to report on design requirements under environmental guidelines.
Dalby Baptist Church	Acoustics and electro acoustic design work with Architects
Downlands Sports hall Toowoomba	Acoustics and electro acoustic design work with Ehrlich Layton Architects
Southbank TAFE redevelopment	Acoustics and electro acoustic design work as sub consultant to Max Winders & Assoc Brisbane.

Miscellaneous Items:-

Professional Indemnity Policy current for \$1,000,000.00 No P0068 0040018 002

Public Risk and Product Liability Policy current for \$10,000,000.00 Policy No 40 BPK 0429243

A contact list is available on request for previous clients for reference purposes.

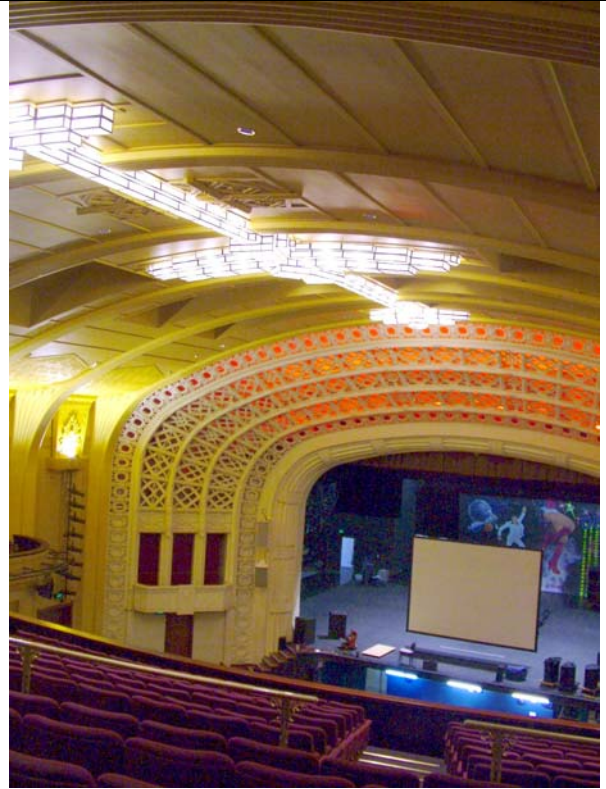
Thank You for Your interest.

Yours Truly

Peter J. Patrick



St Mary's Catholic Church Ipswich (Completed)



Toowoomba's Empire Theatre (Completed)



Brisbane City Hall (Current)



Australia Zoo – Crocaceum (Completed)