



## SAM DEMASI

### ASSOCIATE

#### AREAS OF EXPERTISE

- Building Acoustics
- Environmental Noise & Vibration Monitoring
- Environmental Noise Assessment
- Construction Noise Monitoring & Assessment

#### QUALIFICATIONS

- Bachelor of Engineering (Mechanical)

#### OH&S / SAFETY

- WorkCover NSW OH&S Construction White Card

#### AFFILIATIONS

- Member Australian Acoustical Society (MAAS)
- Member, Institution of Engineers Australia (MIEA)

#### EMPLOYMENT HISTORY

- |                       |   |
|-----------------------|---|
| • 1990 – 1997         | Cadet Engineer, Sydney Water Corporation            |
| • 1997 – 1998         | Engineer, Project Manager, Sydney Water Corporation |
| • 1998 – 2000         | Engineer, Atkins Acoustics                          |
| • 2000 – 2003         | Engineer, Richard Heggie & Associates               |
| • 2004 – Jun 2006     | Engineer, Wilkinson Murray                          |
| • Jul 2006 – Jun 2007 | Project Engineer, Wilkinson Murray                  |
| • Jul 2007 – Jun 2008 | Senior Engineer, Wilkinson Murray                   |
| • Jul 2008 – Aug 2010 | Associate Director, Cardno ITC                      |
| • Sep 2010 – Present  | Associate, Wilkinson Murray                         |

#### PROFILE

Sam is a Mechanical Engineer with 18 years' experience as a professional engineer; much of this time spent in the field of acoustics. He has covered a wide range of acoustic projects from building design to the assessment of noise from major developments and construction projects. For many projects he has acted as Acoustic Project Manager.

**TRANSPORTATION**

- Noise logger placement, attended monitoring and noise modelling of various route options for the Lawrence Hargraves Drive and Princes Highway intersection improvement
- Noise logger placements, attended monitoring and assessment of Great Western Highway Upgrade – Lawson (Stage 2)
- Noise logger placements, organisation of road traffic counting, attended noise monitoring, and reporting for Old Windsor Road, Seven Hills (compliance)
- Noise logger placement for long term monitoring and assessment of results for Taree Bypass
- Pre-Construction Ambient Noise Monitoring Programme for Westlink M7 project, including noise logger placement and reporting
- Construction Noise and Vibration Monitoring Programme and Implementation for Westlink M7 project
- Noise logger placements for long term monitoring and assessment of results for Parramatta Rail Link Pre-Construction Ambient Noise Monitoring Programme
- Noise logger placements for long term monitoring and assessment of results and East Hills Rail Link Quadruplication
- Prediction of the impact of road traffic noise on a development using CoRTN software
- Facade design to control road, rail and aircraft noise
- Internal noise level compliance measurements from road, rail and aircraft noise
- Measurement and assessment of vibration such as rail pass-bys
- Southern Sydney Freight Line – construction noise and vibration impact statements (CNVIS) and noise compliance measurements
- Southern Sydney Freight Line – construction vibration measurements – building damage
- Newtown Rail Station - Pre-Construction Ambient Noise Monitoring Programme including noise logger placement and reporting, CNVIS and compliance measurements.
- Cardiff Rail Station - Pre-Construction Ambient Noise Monitoring Programme including noise logger placement and reporting and CNVIS
- Fort Street High – Advice re aircraft noise and compliance measurements upon completion
- Sydney Light Rail – CNVIS, CNVMP and compliance noise and vibration measurements.
- Project 177 – construction noise and vibration monitoring plans.

**ARCHITECTURAL**

- Building element design to achieve required acoustic ratings wall and floor systems, including acoustic opinions of wall and floor-ceiling systems (both airborne and impact)
- Design of mechanical systems to achieve required internal noise design goals and external statutory noise design goals, i.e. roof top ventilation systems
- Design of vibration isolation systems, i.e. swimming pools and mechanical plant rooms
- Inspections of building elements, mechanical systems and hydraulic systems
- Acoustic testing of facades, walls, floor-ceiling systems (both airborne and impact) and internal noise levels from all forms of traffic, mechanical and hydraulic sources
- Acoustic advice on music and TV recording studio design (both internal and control to residents)
- Advice to control Vibration impact including vibration measurements during excavation and construction works
- Acoustic advice relating to Green Star for commercial and residential developments
- Specific projects include:
  - Fox Studio Relocation to North Ryde
  - Sandy Point Apartments, The Entrance
  - The Linc Apartments, Alexandria
  - Glebe Harbour Apartments, Glebe
  - Abode Apartments and Commercial Development, St Leonards
  - Market Street Apartments and Commercial Development, Wollongong
  - Various residential and commercial developments in Jacksons Landing, Pyrmont
  - Philips Fox, Elizabeth Street Office Fit-Out, Sydney
  - Aldi Head Office and Distribution Centre, Minchinbury
  - Greenwood Hotel Conversion to Apartments and Commercial Development, Paddington
  - Waratah Mills Conversion to Apartments and Commercial Development, Hurlstone Park
  - Worksafe Head Office fitout, Victoria (included Greenstar)
  - BP Head Office fitout, Victoria (included Greenstar)
  - Sunland Residential Development, Gold Coast (included Greenstar)
  - Atlab Studio Relocation to Chatswood

## INDUSTRIAL

- Acoustic assessment of commercial developments (e.g. Burger King Family Restaurants, BP Service Centres, various Clubs and Hotels) in relation to mechanical noise, patron noise, music noise, vehicle noise and sleep disturbance
- Hearing Conservation measurements and assessments for Kysor Warren – Glendenning, Kellogs – Botany and Coles (Meat Division) Goulburn
- Assessment and measurement of mechanical plant systems
- Transformer housing building element design
- Transformer noise level measurements using sound intensity
- Assessment of noise from various Childcare Centres
- Assessment of operational and construction noise from facilities such as Bateau Bay Sports Facility, Rozelle Bay Dry Boat Marina, Homebush Bay Remediation and Shell Cove Boat Harbour / Marina Development
- Yennora Distribution Centre – Independent Noise Audit