

01 May 2024

Department Planning and Environment
Industry Assessments
Development Assessments

Your Ref: SSD -10479 CoC D54

Our Ref:

Attention Chris Ritchie

Email: Chris.Ritchie@planning.nsw.gov.au

Dear Chris

RE: 200 Aldington Road Industrial Estate (SSD 10479) - Request for Approval of Noise Consultants for DNVR

Stockland Fife Kemps Creek (SFKC) seek the Planning Secretary's endorsement of suitably qualified and experienced noise consultants to prepare a Design Noise Verification Report (DNVR) for the Stage 1 Development of the 200 Aldington Road Industrial Estate (SSD-10479). This request has been submitted in accordance with Condition of Consent D54.

SFKC nominate Renzo Tonin Associates (RTA) and have attached for your review the curriculum vitae of suitably qualified and experienced staff at RTA including Rodney Phillips, Angus Leslie, Michael Chung and Peter Karantonis.

SFKC previously nominated SLR to prepare this DNVR however as SLR has now prepared the Construction Noise and Vibration Management Plan (CNVMP) for Modification 1 stage 1 and Modification 2 it is considered that to provide independent verification reports for stage 1 and future stages RTA will be more suitable.

We look forward to receiving your endorsement to enable Renzo Tonin and Associates to prepare the Design Noise Verification Report for the stage 1 development of 200 Aldington Road Estate.

Should you have any questions, please don't hesitate to contact the undersigned.

Yours sincerely,

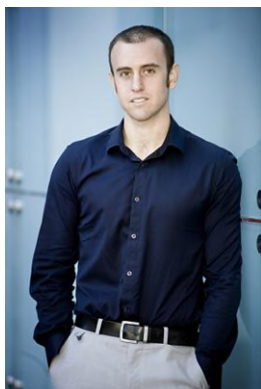
Richard Harris



Inclusions

- CVs of noise consultants (4)





Curriculum Vitae

Rodney Phillips

Senior Engineer

Qualifications

- Bachelor of Engineering (Construction) - The University of Technology, Sydney
- Diploma of Engineering Practice - The University of Technology, Sydney
- Member of the Australian Acoustical Society (MAAS)
- Work Health Safety: CGIO1158513SEQ1

Key Skills and Competencies

Rodney is a Senior Engineer in the Renzo Tonin & Associates Sydney office and has over 12 years of experience in acoustic consulting.

Since joining Renzo Tonin & Associates Rodney has been involved in a diverse range of acoustic projects. His fields of special competence include large transport infrastructure projects, environmental impact assessments, construction noise and vibration, and childcare developments. In addition, he has developed acoustic computer applications for the assessment and prediction of road traffic noise and construction noise and vibration.

Since 2010 Rodney has been the Datakustik Sales and Service Engineer for all Datakustik products distributed by Renzo Tonin & Associates in Australia and New Zealand.

Relevant Experience

Road Noise and Construction Noise and Vibration

WestConnex Stage 2 New M5; WestConnex Stage 1B M4 East; Albion Park Rail Bypass; Werrington Arterial Road; Manns Road & Pacific Highway, Narara; Princes Highway, Berry to Bomaderry; Pacific Highway, Kempsey To Eungai; Pacific Motorway, Berowra; Hume Freeway, Albury Wodonga; Narellan Road; Showground Road; Memorial Avenue; Schofields Road; Alford's Point Road; Old Hume Highway and Braemar Avenue Intersection.

Road Rehabilitation and Minor Works

Old Windsor Road, Old Toongabbie; Railway Road, Sydenham; Canterbury Road, Canterbury; Douglas Street, Stanmore; Great Western Highway, St Marys; Tebbutt

Street, Leichhardt; Memorial Dr & Porter St, Gwynneville; Gardeners Road, Mascot; Livingstone Road, Petersham.

Rail Noise & Vibration

North West Rail Link (NWRL) TSC (Tender, Detailed Design & Delivery); North West Rail Link (NWRL) – OTS Tender, Detailed Design & Construction with Northwest Rapid Transit.

Residential Developments

Spring Farm Release Area (Landcom and Mirvac); UWS Campbelltown Subdivision; Gledswood Hills, Botanica (Australand), Lidcombe; Thornton, North Penrith (Landcom); Government Road, Hinchbrook (Massland Group); Glenfield Road, Glenfield (Massland Group).

Land Use Planning

Spring Farm Release Area (Landcom and Mirvac); UWS Campbelltown Subdivision; West Dapto Urban Release Area (Sydney Water).

Child Care Centres

Avenues Early Learning Centre, Manly; Giraffe Early Learning Centre, Mosman; Griffiths Street Child Care Centre, Balgowlah; Lindfield Childcare Centre; Guardian Early Learning Group Child Care Centre; North Sydney; Meadowbank Child Care Centre; Burns Bay Road Child Care Centre, Lave Cove; Burren Street, Sydney (USyd); Grays Point Early Learning Centre; Lilyfield Child Care Development; Thornton Hall Childcare; Penrith; Linden Crescent, Sutherland; Parramatta Road, Forest Lodge; Virginia St, Kensington

Industrial Noise

Uranquinty Power Station - Origin Energy; West Dapto Urban Release; Securus (Gore Hill) and Macquarie Telecom (North Ryde) Data Centres; Macksville Precast Facility; Nepean Zone Substation; Moorebank Recyclers; Alexandria Canal Depot; Cessnock Zone Substation; Burrows Road Recycling Facility, St Peters; Zammit Foods; Nimbin Skate Park.

Commercial Noise

Taronga Wildlife Retreat; Unity Hall, Balmain; F45 Gym, Rozelle; Bingara Country Club, Wilton.

Shopping Centres

Rhodes Shopping Centre expansion; Coles Lindfield; Coles Wentworth Point; Caringbah Homemaker Centre expansion.

Churches

Pitt Town Anglican Church; Guildford Coptic Church.

Mining & Quarries

Rocla Calga Quarry (Noise Monitoring)

OH&S Noise Assessments

Qantas Training Facility; University of NSW; Fire & Rescue NSW

Aircraft Noise

Assessments throughout Botany Council

Acoustic Testing

Field tests to determine the acoustic rating of walls and floors; Road and railway field testing to determine noise and vibration levels for development applications; On site BCA compliance testing of walls, floors and mechanical services for various developers; Hindmarsh Group, Vivas Lend Lease, Parkview Constructions; Testing of walls & floors for compliance with Apartment Strata By-Law;; Horizon at Darlinghurst, Sugardock at Jacksons Landing, Escarpment at Jacksons Landing, Altura at Chatswood.

Professional History

- November 2016: Senior Engineer, Renzo Tonin & Associates Pty Ltd
- September 2012: Project Engineer, Renzo Tonin & Associates Pty Ltd
- January 2011: Graduate Engineer, Renzo Tonin & Associates Pty Ltd
- December 2009: Engineers Assistant, Renzo Tonin & Associates Pty Ltd
- January 2008 to July 2008: Site Engineer, Arenco (NSW) Pty Ltd

Publications

"A preliminary investigation into the determination of the inaudibility level of mechanical plant and music noise in the presence of ambient background noise"
Breaking New Ground, Australian Acoustical Society Annual Conference, Nov 2011, Gold Coast, R Phillips.

"Change in traffic noise levels after road pavement maintenance using diamond grinding or milling",
Australian Acoustical Society Annual Conference, Nov 2013, Victor Harbor, South Australia, M Gange and R Phillips.



Curriculum Vitae

Angus Leslie

Senior Project Engineer

Qualifications & professional affiliations

- Master of Philosophy, University of Sydney (2011)
- Bachelor of Engineering (Aeronautical) (Hon 1), University of Sydney (2007)
- Member of the Australian Acoustical Society (MAAS)
 - NSW Division committee member (2013 to Present)
 - NSW Division Chairperson 2019/2020
 - NSW Division Vice-Chairperson 2021-2023
 - Australian Acoustical Society Federal Councillor 2019/2020
- Current Rail Industry Workers (RIW) and Workcover OHS General Induction qualifications

Key skills and competencies

Angus Leslie is a senior acoustic engineer with over 14 years of experience in acoustic consulting.

Angus has been involved with a diverse range of noise and vibration related projects during his professional career, which include environmental impact assessments for large infrastructure facilities, ports, airports, mining/quarry, roads and rail noise assessments, construction noise and vibration, and occupational health and safety assessments.

Angus has been involved in an extensive range of industrial, warehouse & distribution centres projects types projects, and major infrastructure projects from the environmental assessment stage managing the construction assessments for the Western Harbour Tunnel & Beaches Link program of works for Transport for NSW or noise and vibration impact assessments for State Significant Developments (SSDA), through to the construction stages such as Sydney Metro North West, Sydney Metro City and South West and WestConnex New M5, working with construction joint ventures to successfully manage the construction noise and vibration and liaising with government agencies (NSW Environment Protection Authority and the Department of Planning, Housing and Infrastructure).

Angus has also worked on a variety of industrial and building projects including noise impact assessments for commercial, industrial and retail premises taking projects through the entire project life cycle from concept design through to final commissioning, acoustic work for fit-outs, mechanical and electrical services noise and vibration assessments and architectural acoustics.

Key projects

Industrial / Commercial facilities

Industrial, warehouse & distribution centres, Woolworths Regional Distribution Centre, Wyong NSW; Woolworths Sydney Chilled and Fresh Distribution Centre, Eastern Creek NSW; Woolworths Wetherill Park Distribution Centre, Wetherill Park NSW; QF3 and QF4 warehouse development, King Street, Mascot; Coward/Kent Street warehouse planning proposal, Mascot; Ascent on Bourke, 520 Gardeners Road, Alexandria; Sydney Flight Training Centre, 28-30 Burrows Road, St Peters NSW; Warehouse development masterplan, Wilton Park and Berwick Park Roads, Wilton NSW; Ardex Warehouse & Manufacturing Facility (Mamre Road Precinct); 657-769 Mamre Road, Kemps Creek, NSW; Moorebank Intermodal operational warehouse compliance assessments; Glenlee Rezoning and site assessments, Glenlee, NSW; Enfield Intermodal, Enfield NSW; Crossroads Masterplan and individual site assessments, Casula, NSW; Allied Mills, New Bakery Facility, Maldon, NSW; Premier Stockfeeds, Kootingal, NSW - Impact assessment and compliance; A range of defence projects throughout Australia, including several new buildings and new facility operations.

Angus has also prepared a technical note for the NSW Department of Planning, Housing and Infrastructure (DPHI) (formerly Department of Planning) in relation to guidance and considerations for the preparation of industrial noise assessments in NSW.

Rail stabling/maintenance facilities - New Intercity Maintenance Facility Design and Construct Project, Kangy Angy NSW; Wollongong Stabling Yard and Platform Extension Project REF (Transport for NSW); MTMS3A

Eveleigh Stabling Yard (Transport for NSW); Auburn Stabling Facility noise monitoring;

Ports - Stolthaven Bulk Fuel Facility (Port of Newcastle), Mayfield, NSW - Multiple construction, operational and compliance noise impact assessments; Mayfield No.4 Berth (Port of Newcastle), Mayfield, NSW - Multiple compliance noise impact assessments; Vopak Terminal Petroleum tank farm, Port Botany, NSW; Port Kembla Outer Harbour, Port Kembla, NSW; A Department of Defence naval precinct noise review; Mayfield Concept Plan (Port of Newcastle), Mayfield, NSW - Noise verification monitoring plan, cumulative noise modelling user guide, annual noise verification review.

Data Centres and Generator Assessments - Digital Realty Data Centre, Erskine Park, NSW; Digital Realty Data Centre, Deer Park, VIC; Eastern Creek Data Centre, Eastern Creek, NSW; ASX Data Centre Generator, Bondi Junction, NSW; Westpac Data Centre OHS assessment, Macquarie Park, NSW; Barangaroo Energy Centre tri-generation facility, Barangaroo, NSW; Confidential Data Centres, 10 Data centres at various locations around Australia; Multiple Department of Defence Generator Upgrades; 177 Pacific Highway emergency generator, North Sydney, NSW; Blacktown Hospital Central Energy Plantroom, Blacktown, NSW.

Substations - Mungah Substation, Mungah, NSW; Sydney West Substation, Eastern Creek, NSW; Canberra Substation, Macgregor, ACT; Coffs Harbour Substation assessment and compliance assessments, Coffs Harbour, NSW.

Aviation - Seletar Airport Noise Study, Seletar, Singapore; Mona Vale Hospital Helipad, Mona Vale, NSW; Sydney Airport Ground Based noise modelling and aircraft monitoring.

Mines/Quarries - Chain Valley Colliery, Mannering Park, NSW; Boral Clay Quarry and Brickworks, Badgerys Creek, NSW.

Peer reviews - Woolworth Customer Fulfillment Centre, Auburn NSW; Woolworth Customer Fulfillment Centre, Marrickville NSW; ESR Horsley Logistics Park, Horsley Park NSW; 155-217 Aldington Road Estate, Kemps Creek, NSW (within the Mamre Road Precinct); 884-928 Mamre Road, Kemps Creek, NSW (within the Mamre Road Precinct).

Construction noise & vibration

Rail projects

More Trains More Services (MTMS) projects NVIA including Lidcombe Loop and Sefton Park Junction, Ashfield 522 Point Upgrade, Central, Eveleigh, Sydenham, Wollongong, Thirroul, Coniston, Bellambi, Kiama (Jacobs/Transport for NSW); Parramatta Light Rail Stage 1 Construction works - Supply, Operate and Maintain (SOM) Package (Great River City Light Rail consortium); Inland Rail (Narriabri to North Star) (N2NS); Mount Victoria and Lithgow Station Area Remodelling (John Holland); Banksia Station Transport Access Program (TAP) REF (Transport for NSW); New Intercity Maintenance Station Enabling Works Technical Advisor (Transport for NSW);

Kingsgrove to Revesby Quadruplication and Revesby (K2RQ) (Richmond Line Alliance), Adamstown Station Overbridge REF (Transport for NSW); ARTC North Coast Curve Easings Project, Multiple rail sites on the North Coast NSW; Singleton Station Platform Upgrade REF (Transport for NSW).

Road projects - Western Harbour Tunnel & Beaches Link program of works (Transport for NSW); WestConnex Stage 2 New M5 Design & Construction (CPB Dragados Samsung Joint Venture); Sapphire to Woolgoolga Pacific Highway Upgrade (S2W).

Tunnelling - WestConnex Stage 3B Rozelle Interchange Design & Construction (John Holland CPB Joint Venture); Sydney Metro City & South West Tunnel and Station Excavation (CPB John Holland Ghella JV); WestConnex Stage 1B M4 East Design & Construction (CPB Samsung John Holland Joint Venture); WestConnex Stage 2 New M5 Design & Construction (CPB Dragados Samsung Joint Venture); Sydney Metro North West Tunnel and Station Civil (CPB John Holland Dragados Joint Venture).

Infrastructure, industrial, warehouse & distribution centres - 520 Gardeners Road, Alexandria, DNVMP; Westlink (Abbots Road, Kemps Creek) (Mamre Road Precinct) multiple CNVMPs; Moorebank Intermodal Stage 3 REF; Moorebank Intermodal Stage 1 & 2 construction compliance assessments and management; Barangaroo SISCO Pilot Trials, Millers Points, NSW; Rouse Hills Pumping Station/Caddies Creek Upgrade, Rouse Hills, NSW; Winmalee Water Treatment Plant Upgrade, Winmalee; Surry Hills Water Mains Renewal Project, Surry Hills.

Building acoustics -

Commercial/Schools/Mechanical Services

Northern Beaches Community Health Centre, Mona Vale, NSW; Shortland Waters Golf Club and Community Centre, Shortland, NSW; Woolgoolga Shops, Tavern and Apartments, Woolgoolga, NSW - OLGR assessment, 150 Epping Rd, Lane Cove, NSW; 185 Gloucester St, Sydney; NSW - investigation and rectification; KCCS Arncliffe, Arncliffe, NSW.

Research

Angus's Masters research investigated innovative methodologies for reducing the noise of small UAV/drone propellers.

Professional history

- Since 2016 - Senior Project Engineer, Major Projects team, Renzo Tonin & Associates Pty Ltd, Sydney.
- 2010-2016 - Acoustic Engineer, AECOM Australia Pty Ltd, Sydney
- 2009-2010 - Project Engineer, Acoustic Logic Consultancy Pty Ltd, Sydney.



Curriculum Vitae

Michael Chung

Director | Principal

Qualifications

- Doctor of Philosophy PhD (Engineering) - University of Technology, Sydney
- Bachelor of Engineering BE (Mechanical) - University of Technology, Sydney
- Diploma of Engineering Practice - University of Technology, Sydney
- Member of the Institution of Engineers Australia (MIEAus)
- Member of the Australian Acoustical Society (MAAS)
- Work and Safety: CGIO0781318SEQ1

Key Skills and Competencies

Michael achieved his Bachelor of Mechanical Engineering in 2000 from the University of Technology, Sydney. His undergraduate thesis involved research into the dynamic characteristics of an internal combustion engine.

He also completed his PhD in 2005 under a scholarship awarded by the University of Technology, Sydney and Ventracor Ltd through an Australian Research Council (ARC) grant. His PhD research involved the dynamic analysis of an artificial heart pump.

Since joining Renzo Tonin & Associates, Michael has been involved with a range of acoustical projects. His responsibilities include environmental noise & vibration calculations and computer modelling, providing advice on the control of noise and vibration. He has successfully project managed or assisted on various projects.

Relevant Experience

Environmental Noise Compliance

Bourke Water Treatment Plant; Broken Hill Long Term Water Supply; Orange Drought Relief Pipeline; Wellington Battery Energy Storage System; Orana Battery Energy Storage System; Lismore Battery Energy Storage System; Coleambally Battery Energy Storage System; Blind Creek Solar Farm; Wallaroo Solar Farm; Oxley Solar Farm; Wollar Solar Farm; Glanmire Solar Farm; Yanco Solar Farm; Tilbuster Solar Farm; Nevertire Solar Farm; Beryl Solar

Farm; Wellington North Solar Farm; Wellington South Solar Farm; Currawarra Solar Farm; Sunraysia Solar Farm; Dunedoo Solar Farm; Elizabeth Bay Marina; Parklea Correctional Centre; Emu Plains Correctional Centre; Water Related Services, North West & South West Growth Centres; Marsden Park Precinct; The Poplars Land Release; Bega to Yellow Pinch Dam Water Transfer Pipeline; Moruya to Deep Creek Dam Water Transfer Pipeline; North Tralee Land Release; Elizabeth Hills Land Release; Middleton Grange Land Release; South Werrington Land Release Masterplan; SWSAHS and LANDCOM proposed re-development of Liverpool Hospital Site; Presbyterian Ladies College, Croydon; Port Macquarie Industrial Precinct; Eastern Creek Industrial Precinct; Ryde Waste Recycling Centre; New Years Eve 2003-2004 noise monitoring of dance party at Mirvac's Town Place East (Walsh Bay) development; Eurama Residential Development, Faulconbridge; Morisset Residential Development; Claremont Meadows Residential Development; Australand redevelopment of Lidcombe Hospital Site; Site 4B Commercial Development, Sydney Olympic Park.

Construction Noise & Vibration Assessment

Clarence River Bridge Replacement, Grafton; Pyrmont Bridge Restoration Works; Nepean River Green Bridge, Penrith; Charleyong Bridge Replacement; Coopers Gully Bridge, Bega Maintenance Works; Dalgety Bridge Upgrade; Monkittee Bridge, Braidwood Maintenance Works; Wentworth Avenue Rail Overpass; The Northern Road Upgrade Stage 1, Harrington Park; Tempe Bridge Vibration Monitoring; Liverpool Turnback Project; Anzac Bridge Maintenance Works; Sydney Harbour Bridge Maintenance Works; Narooma Bridge Maintenance Works; Batemans Bay Bridge Maintenance Works; Tom Ugly's Bridge Maintenance Works; Ballina Street Bridge, Lismore Maintenance Works; Long Gully Bridge, Northbridge Maintenance Works; University of Technology, Sydney – Broadway and Thomas Street Buildings; University of Technology, Sydney – Ku-ring-gai Campus; Mirvac, Chifley Square; Sydney Water – North West Growth Centres; Sydney Water – Quakers Hill and Riverstone Sewage Treatment Works; Sydney Water – Sewerage Priority Works and Sewage Pumping Stations; Ku-ring-gai Council Works Depot, Pymble; MLC Centre, Sydney – Facade Refurbishment Works; Sofitel Hotel, Sydney – Construction Noise from 33 Bligh Street;

Macquarie Centre, North Ryde; Stockland Shopping Centre, Wetherill Park; Caltex Refinery, Kurnell; Enfield Intermodal Logistics Centre; Ibis Hotel, Wollongong; Bega to Yellow Pinch Dam Water Transfer Pipeline; Banora Point Upgrade Alliance, Pacific Highway; Camden Valley Way Upgrade, Leppington; Central Coast Highway, Erina Heights; F5 Freeway Widening; Great Western Highway, Bullaburra; South Nowra Princes Highway Widening; Brunswick Heads to Yelgun Pacific Highway Upgrade; Bangor Bypass Upgrade; Windsor Flood Evacuation Route; Hoxton Park Road Upgrade.

Industrial Noise Compliance

Moorebank Intermodal Logistics Centre; Switchyard Industrial Estate, Auburn; Elizabeth Enterprise Industrial Precinct, Kemps Creek; Bodalla Sewerage Treatment Plant; Wallaga Lake Koori Village Sewerage Treatment Plant; Sydney Water's Priority Sewerage Program (PSP); Quakers Hill Sewerage Treatment Plant; Riverstone Sewerage Treatment Plant; Enfield Intermodal Logistics Centre; Kuring-gai Council Works Depot, Pymble; Syd Einfeld Depot, Bondi Junction; AGL Gas Facilities, Marrangaroo & Bathurst; Cleary Bros. Sand Mine, Gerroa; Packards Quarry, Tumut; Port Macquarie Industrial Precinct; BHP Billiton West Cliff Colliery Power Plant; Caltex Refinery, Kurnell; Ryde Waste and Recycling Centre; Gerroa Sand Mine; Paddington Green; IKON Apartments; UPS Campus, Homebush; Southpoint Shopping Centre and Residential Development; CMI Safe Company, Carlton

Road Noise & Vibration

Coffs Harbour Bypass (peer review & tender design); M1 Motorway Extension to Raymond Terrace; Woolgoolga to Ballina, Portion D; Warrell Creek to Nambucca Heads; Sapphire to Woolgoolga; Banora Point Upgrade Alliance; Brunswick Heads to Yelgun; Kempsey to Eungai; Karuah to Buladelah; Western Harbour Tunnel and Beaches Link; WestConnex Stage 1B (M4 East); The Northern Road Stages 1, 2 & 3; Ingleburn to Menangle F5 Freeway Widening; M5 South West Widening; Lane Cove Tunnel; Great Western Highway, Bullaburra; Great Western Highway, Leura; Bangor Bypass Upgrade; King Georges Rd to Heathcote Rd M5 Motorway Widening; Raby Road to F5 Freeway On-Ramp; Richmond Road Upgrade, Marsden Park; Bringelly Road Upgrade, Leppington; Camden Valley Way Upgrade, Leppington; Cowpasture Road Upgrade (South of M7); Cowpasture Road Upgrade (North of M7); Hoxton Park Road Upgrade; Horsley Drive Upgrade; Croatia Avenue Bypass, Edmondson Park; Marsh Street Widening, Arncliffe; Hunter Expressway Pavement Noise Measurements Using RONDA CPX Trailer; Byron Bay Bypass; Albury-Wodonga National Highway; South Nowra Princes Highway Widening; Merimbula CBD Bypass; Windsor Flood Evacuation Route; Central Coast Highway, Erina Heights; South Batemans Bay By-Pass; Kings Highway Upgrade, Batemans Bay; Avoca Drive Upgrade, Green Point; Batemans Bay Bridge Replacement, Clarence River Bridge Replacement, Grafton; Burrill Lake Bridge Replacement; Windsor Bridge Upgrade; Dalgety Bridge Upgrade; Deadmans Creek Bridge Replacement, Sandy Point; Nepean River Green Bridge, Penrith; Charleyong Bridge Replacement; Coopers Gully Bridge, Bega Maintenance Works; Dalgety Bridge Upgrade; Monkittee Bridge, Braidwood Maintenance Works;

Wentworth Avenue Rail Overpass; Pyrmont Bridge Restoration Works; Tempe Bridge Vibration Monitoring; Anzac Bridge Maintenance Works; Sydney Harbour Bridge Maintenance Works; Narooma Bridge Maintenance Works; Batemans Bay Bridge Maintenance Works; Tom Ugly's Bridge Maintenance Works; Long Gully Bridge, Northbridge Maintenance Works; Wentworth Avenue & Page Street Intersection; Wentworth Avenue & Baker Street Intersection; Parramatta Road & Shaftesbury Road Intersection, Burwood; Parramatta Road & Great North Road Intersection, Five Dock; Mamre Road & Saddington Street Intersection, St Marys; ; Corrimal Street & Gipps Street Intersection, Wollongong; Princes Highway & President Avenue Intersection, Kogarah; Mulgoa Road & School House Road Intersection, Regentville; Argyle Street & Church Road Intersection, Moss Vale; M1 Pacific Highway, Cooranbong Noise Study; Pacific Highway, Tweed Heads Noise Study; Pacific Highway, Kingscliff Noise Barrier Analysis Design; Burnt Bridge Creek Deviation, North Balgowlah Noise Barrier Analysis Design; Syd Einfeld Drive, Bondi Junction Noise Barrier Analysis Design; Heavy Vehicle Rest Area, Quaama; Warringah Freeway, Cammeray Noise Study; Princes Highway, Kiama Noise Study; Botany Road, Botany Noise Study; Military Road, Mosman Tidal Flow Investigation; Northern NSW Pavement Rehabilitation Projects; Olympic Drive, Lidcombe Concrete Diamond Grinding; NSW Noise Abatement Program Noise Wall Designs; NSW TfNSW Noise Abatement Programs

Rail Noise & Vibration

Liverpool Rail Yard & Turnback Project; Enfield Intermodal Logistics Centre; North West Rail Link Vibration Analysis

Licensed Premise Assessment

New Viking Hotel, Milperra; Aurora Bar, Sydney; The Verandah Bar & Bistro and Street Bar; Madam De Biers Hotel Bar, Kings Cross; Central Hotel, Blacktown; Springwood Bowling & Recreation Club; Rosebery Hotel; Excelsior Hotel, Glebe; The Argyle, The Rocks; Town Hall Hotel, Newtown; Kelly's on King, Newtown; Trades Hall Hotel, Sydney; Coogee Bay Hotel, Coogee; ARQ, Sydney; Trinity, Surry Hills; Norfolk Hotel, Surry Hills; Royal Hotel, Sutherland.

Childcare Centre Noise Assessment

Bambino's, Oran Park; Bambino's Gregory Hills; Bambino's, Caringbah; My Stepping Stones, Leichardt; My Stepping Stones, Rose Bay; Melton Road, Mudgee; Telopea Way, Orange; Little Darlings, Caringbah; Little Darlings 2, Cronulla; Kesser Torah, Dover Heights; Bobbin Head Road, Pymble; Harold Street, Blacktown; Clissold Parade, Campsie; Fifteenth Avenue, Austral; Grays Lane, Cranebrook; Layton Avenue, Blaxland; Archbold Road, Roseville; Metalla Street, Toongabbie; Oxford Street, Paddington; Darley Road, Randwick.

Occupational Health & Safety Assessment

Qantas Boeing 737 Flight Deck Noise Testing; Malt Shovel Brewery, Camperdown; RailCorp Guard Location Noise Testing; J.S. McMillan Printing, Granville; State Transit Authority, Kingsgrove Depot; Sell & Parker Metal

Recycling, Blacktown; Willoughby Leisure Centre, Willoughby.

Professional History

- 2019 - Director, Renzo Tonin & Associates
- 2014 – Principal Engineer, Renzo Tonin & Associates
- 2006 – Senior Engineer, Renzo Tonin & Associates
- 2003 – Project Engineer, Renzo Tonin & Associates
- 2000 – APA (I) PhD Scholarship with UTS & Ventracor Ltd
- 1999 – Design Engineer, Crane Enfield Metals Pty Ltd
- 1997 – Assistant Engineer, Westwood Hong & Associates, Hong Kong

Publications

- Chung, M., Hinze, B., Kim, D. and Macabenta, N. 2019. RONDA CPX trailer measurements in Queensland. Proceedings of AAS Annual Conference, 10-13 November, Cape Schank, Australia, paper no. 47
- Chung, M. and Carson, P. 2018. RONDA CPX measurements along the Hunter Expressway. Proceedings of AAS Annual Conference, 6-9 November, Adelaide, Australia, paper no. 133
- Chung, M. and Carson, P. 2017. RONDA open frame CPX trailer measurements along various pavement types on the Hunter Expressway. Proceedings of ASCP 4th Concrete Pavement Conference, 16-18 July, Kingscliff, Australia
- Tonin, R., Chung, M. and Gange, M. 2015. RONDA open frame CPX trailer – results of first trials. Proceedings of Inter-Noise 2015, 44th International Congress and Exposition on Noise Control Engineering, 9-12 August, San Francisco, California, USA, paper no. 745
- Chung, M., Tonin, R. and Lau, T. 2015. RONDA – Pavement noise measurements on concrete roads. Proceedings of ASCP Concrete Pavement Conference, 20-21 July, Coffs Harbour, Australia

- Chung, M., Karantonis, P., Gonzaga, D. and Robertson, T. 2008. Comparison of traffic noise predictions of arterial roads using Cadna-A and SoundPLAN noise prediction models. Proceedings of AAS Annual Conference, 24-26 November, Geelong, Australia, paper no. 54
- Zhang, N., Chung, M. and Tansley, G.D. 2005. Experimental determination of dynamic characteristics of the impeller-bearing-housing System of the VentrAssist blood pump. Proceedings of Australian Congress on Applied Mechanics, 16-18 February, Melbourne, Australia, pp. 317-322
- Chung, M.K.H., Zhang, N., Tansley, G.D. & Qian, Y. 2004. Determination of Dynamic Characteristics of the VentrAssist Implantable Rotary Blood Pump. The International Journal of Artificial Organs, 28 (12) pp. 1089-1094
- Chung, M.K.H., Zhang, N., Tansley, G.D. & Woodard, J.C. 2004. Impeller Behaviour and Displacement of the VentrAssist Implantable Rotary Blood Pump. The International Journal of Artificial Organs, 28 (3) pp. 287-297
- Chung, M., Zhang, N., Tansley, G. and Woodard, J.C. 2002. Experimental determination of bearing performance of VentrAssist rotary blood pump. Proceedings of 6th IFToMM International Conference on Rotor Dynamics, Sydney, Australia, pp. 767-775
- Chung, M.K.H., Zhang, N., Tansley, G. and Woodard, J.C. 2002. Bearing dynamic characteristics of the VentrAssist rotary blood pump. Proceedings of 5th International. Conference on Vibration Engineering, China, pp. 155-161
- Tansley, G., Cook, M., Woodard, J., Zhang, N., Chung, M. and Reizes, J. 2000. Complete Passive Suspension of the VentrAssist Impeller Rotary Blood Pump. Proceedings of the Fifth International Conference on Motion and Vibration Control, December, Australia, pp. 809-813



Curriculum Vitae

Peter Karantonis

Director | Principal

MEngSc (Acoustics), BE (Mech), MIEAust, CPEng, RPEQ, NER, APEC Engineer, IntPE(Aus), MAAS

Qualifications

- Masters in Engineering Science (Acoustics), UNSW (2010)
- Bachelor of Engineering (Mechanical), UTS (1988)
- Project Management (Engineering), UNSW (2010)
- Machine Vibration Diagnostics Course, 1993 - Bentley Nevada
- NSW EPA Industrial Noise Policy Training Course, 2000 - NSW EPA
- Environmental Expert Training Course, 2008 - The Environment Institute of Australia & New Zealand
- Member of Engineers Australia (MIEAust)
- Chartered Professional Engineer (CPEng)
- Registered Professional Engineer Queensland (RPEQ)
- National Engineering Register (NER)
- Asia Pacific Economic Co-operation Engineering (APEC) Engineer Register
- IntPE(Aus) Register
- Member of the Australian Acoustical Society (MAAS)

Key Skills and Competencies

Peter Karantonis is a Director of Renzo Tonin & Associates and is a professional engineer with over 35 years of experience in acoustic consulting.

Peter achieved his Bachelor of Mechanical Engineering in 1988 from University of Technology, Sydney and his Masters in Engineering Science (Acoustics) in 2010 from the University of New South Wales. Peter has also completed a Project Management course at UNSW in 2010.

Peter has guest lectured final year engineering and masters students at the University of NSW and Sydney University and has taught short courses on acoustics to TAFE students and industry. He has also lectured acoustics part-time to architectural degree students at the Oceanic Polytechnic Institute of Education, Melbourne. Peter was also a design mentor in the Professional Experience Program at the School of Design Studies at University of NSW in 2003-4.

Peter's fields of special competence include environmental impact assessments, large infrastructure projects, transportation noise (road, rail and aircraft),

industrial noise, construction noise & vibration, occupational noise, structural vibration, acoustic research & development, architectural acoustics, building mechanical services and expert representation in legal cases.

Relevant Experience

Road Noise & Vibration

Pacific Hwy Upgrades – Coffs Harbour Bypass (peer review & tender design); Warrel Creek to Urunga (Concept Review); Tintenbar to Ewingsdale (Concept & Design Review); Banora Point Upgrade (Alliance); Brunswick Heads to Yelgun (D&C)

Hume Highway Upgrades - Albury-Wodonga National Highway (D&C); Hume Hwy Southern Alliance (Alliance)

Princes Highway Upgrades – Gerringong (Tender Design); Oak Flats to Dunmore (EIS)

Great Western Highway Upgrades – Wentworth Falls

Other Regional NSW Projects - Hunter Expressway (D&C); Central Coast Hwy HW30 Upgrade (Design)

Sydney Projects - M6 Stage 1 Motorway (D&C); WestConnex Stage 3B Rozelle Interchange (D&C); WestConnex Stage 2 M8 (D&C); WestConnex Stage 1B M4 East (D&C); WestConnex M4-M5 Link (Stage 3A) Tender Design; Lane Cove Tunnel Project (Design); Cross-City Tunnel Ventilation (D&C); M7/Western Sydney Orbital WSO (EIS & Design Review); M5 East (EIS); Elizabeth Drive Upgrade (EIS); Silverwater Road (Design); M2 Motorway (Design Review); M4 Viaduct Upgrade - Church St to James Ruse Drive (Design); M4 widening - Mays Hill to Service Centres (Design); Horsley Drive and Cowpasture Road, Wetherill Park (REF); Marrickville Area Traffic Noise & Vibration (Study)

Victorian Projects - Mitcham-Frankston Motorway (Tender Design Review); Cobram (Vic) / Barooga (NSW) Bridge Replacement (EIS); M1 Southern Link Upgrade - DCVE Review of Traffic Noise Impacts; Swan Hill Bridge Planning Study; Echuca-Moama Bridge Planning Study; Deer Park By-Pass; Northern Hwy - Hume Hwy To Kilmore

Planning Study; Findon Road Extension Planning Study – Stage 2 Route Option Study and Stage 3 Study

Queensland Projects – Airport Link & Northern Busway (Tender Design)

Rail Noise & Vibration

Rail Infrastructure – Cross-River Rail, Brisbane; Sydney Metro Western Sydney Airport (Tender Design); Sydney Metro City and Southwest – Tunnel & Station Excavation (TSE); Sydney Metro City & Southwest – Linewide (Chatswood to Sydenham); Sydney Metro North West – TSC; Sydney Metro North West Rail Link (NWRL) – OTS with Northwest Rapid Transit; South-West Rail Link, SWRL Glenfield to Leppington Rail Line, GLRL (D&C); Southern Sydney Freight Line ONVMP Peer Review; Sydney's CBD Metro (Tender Design); Epping to Chatswood Rail Line, ECRL (Compliance Review); Parramatta Rail Link (Design Review); Queensland Rail, North Coast Line in Cairns (Modelling & Assessment); BHP, Newcastle Multi-Purpose Terminal Rail Line (Concept & Design).

Rail Stabling Yards – Marrickville Stabling Facility; Marrickville Stabling Facility; Sydney Metro Trains Facility (SMTF) North; New Intercity Fleet Maintenance Facility – Kangy Angy; Leppington Stabling Yard; Rail Clearways Program – Macdonaldtown Stabling Yard (Design); Eveleigh Stabling Yard (Design); Enfield Intermodal Logistics Centre EIS.

Rail Corridor Developments – Leeder Ave, Penshurst noise/vibration investigation (Investigation & Advice); Theatre Royal train track and building isolation (Investigation & Advice); Assessment and design of multiple suburban and inner-city residential developments alongside railway lines.

Rail Rolling Stock – Waratah, A-Sets (D&C); Outer Suburban Car, OSCar (D&C); Millennium, M-Sets (D&C); Tangara (Testing).

Aircraft Noise

Sydney Airport's new Ground Running Noise Management Plan; Canberra International Airport ANEF 2050 map review; Sydney's Second Airport EIS Auditor; Alice Springs Airport Terminal; Ansett Stage 6 Sydney Airport Terminal; multiple residential developments from KSA and Bankstown Airport noise.

Industrial Noise

Moorebank Intermodal Facility; multiple Woolworths industrial warehouse & distribution facilities; multiple Coles industrial warehouse & distribution facilities; Linfox Truck Depot & Storage Facilities, Homebush; ICI, Botany, Chlorine Plant for Marley Cooling Towers; Sydney Waterboard, Malabar; AGL Gas Separation Plant, Kurnell, Port Kembla; Arnott's Biscuits, Homebush; BHP Port Kembla; Peakhurst Mail Delivery Centre; Printforce, Mascot; Transgrid Sub-Station, Armidale.

Mining & Quarries

BHP-Billiton, Dendrobium Coal Mining Project, Illawarra Region; Cleary Bros Sand Quarry; BHP Collieries, Appin; East Kurrajong Sandstone Quarry; Moolarben Coal Mining Project (IHAP Panelist).

Water / Sewerage Treatment

Augmentation of Sydney Water's sewerage treatment plants at Mt Victoria, Blackheath and Medlow Bath.

Construction Noise & Vibration

Westpac building refurbishment, Sydney; State Bank Plaza refurbishment, Martin Place, Sydney; Western Sydney Orbital road construction noise EIS; M5 East motorway construction & tunneling noise/vibration EIS; plus hundreds of small-to-medium size construction sites.

Vibration & Structural Damage

Earthquake Simulator, Sydney Mining Museum; Leeder Ave, Penshurst; Theatre Royal train track and building isolation investigation; Sydney Mining Museum; AGL Centre's facade glazing vibration investigation; BHP Collieries drilling and blasting monitoring and structural damage assessment on historic cottage at Appin.

Environmental

Four Square Gospel Christian School, church Auditorium, hall and offices at Georges Hall;; clubs include Castle Hill RSL; Mt Pritchard District & Community club; Sutherland District Trade Union club; Western Suburbs Soccer Club; Arnotts Huntingwood industrial and office development; Eastern Creek Raceway leasehold review; State Bank Arcade Refurbishment, Martin Place; Penrith Anglican College; Ritz Cinema Extension, Randwick; St Ives Mirvac residential development.

Occupational Noise

Uni-chef Pty Ltd, Kirrawee; Preparation of numerous Legal Reports for Workers Compensation and Common Law court hearings; Expert Witness in Common Law Courts; Parker Furniture; headset noise tests for 'Acoustic Shock' at Telstra 1100 Customer Service Centres in Sydney, Adelaide, Newcastle and Wollongong; 'Acoustic Shock' monitoring fat Call Centre for Austar United Communications, Gold Coast Qld.

Research & Development Studies

Heavy Vehicle Engine Compression Exhaust Brake Noise Study for the RTA; national Telstra Study into Occupational Noise & Building Acoustics of Telstra Customer Service Centres.

Architectural

St Ignatius College Riverview, Sports Complex; The Liverpool, Health Services Building; Lend Lease Video Meeting Room Relocation, Australia Square Tower; Naval Support Command Headquarters, Pyrmont; Telstra Customer Service Centres four in Sydney, plus others in Newcastle, Wollongong and Adelaide.

Building Mechanical Services

Computer Power Building, Fernhill Park, Canberra: FMWU Building, 187-189 Thomas St, Haymarket: Market City Building, Haymarket: Navy Building (REVV), Pyrmont.

Peer Review

Pacific Hwy Upgrade - Woolgoolga to Ballina (Broadwater to Pimlico) - Detailed Design; Epping to Thornleigh Third Track Freight Rail Development – Review of noise / vibration assessment and design of mitigation measures (TfNSW); M7 Western Sydney Orbital – Review of Concept and Detail Noise Mitigation Design (RTA); Southern Sydney Freight Line Operation Noise & Vibration Management Plan (ARTC).

Expert Witness & Legal Cases

Commission of Inquiry for the BHP-Billiton, Dendrobium Coal Mining Project, Illawarra Region (environmental noise / vibration impacts); Wilson -V- Meudon Pty Ltd , Supreme Court (potential loss of acoustic amenity from noise intrusion of a proposed penthouse apartment into apartment below); Robert Cartwright -V- Steve Watt Constructions Pty Ltd (vibratory roller vibration measurements and assessment of structural damage); Noise Intrusion from The Lobby Restaurant Into The Villa Boutique Hotel, Surry Hills; AIWA Walkman Portable Radio Cassette Player Acoustic Tests for Hearing Loss Case; East Kurrajong Sandstone Quarry, Land & Environment Court; Copatress -V- South Sydney Council, Land & Environment Court (noise survey and assessment of Buckland Hotel, Alexandria); Incoll Management -V- Kogarah Council – Blakehurst Aged Care Centre, Land & Environment Court (noise impact assessment); Land & Environment Court for several other small to medium developments.

Independent Hearing Assessment Panels & Commission of Inquiries

Panel Member on the Independent Hearing Assessment Panel for the Moolarben Coal Mining Project, Lower Hunter Valley; Expert presenting evidence at the Anvil Hill Coal Mine Project Independent Hearing Assessment Panel; Commission of Inquiry for the BHP-Billiton, Dendrobium Coal Mining Project, Illawarra Region (environmental noise / vibration impacts).

Short-Courses Completed

- Machine Vibration Diagnostics Course, 1993 - Bentley Nevada
- NSW EPA Industrial Noise Policy Training Course, 2000 - NSW EPA
- Environmental Expert Training Course, 2008 - The Environment Institute of Australia & New Zealand
- Project Management (GSOE9820) post-graduate course under the School of Mechanical Engineering at UNSW in 2010

Professional History

- Since 2022 - Managing Director of Renzo Tonin & Associates NSW, VIC, QLD, Kuwait & Singapore
- 2016-2022 – Managing Director of Renzo Tonin & Associates NSW, VIC, QLD & Kuwait

- 2001-2016 – Director of Renzo Tonin & Associates Pty Ltd
- Since 2001 – Principal / Team Leader, Renzo Tonin & Associates Pty Ltd, Major Projects - Infrastructure
- 1995-2001 - Senior Engineer, Environmental Acoustics Team. Renzo Tonin & Associates Pty Ltd
- 1988-1995 - Acoustics and Vibration Senior Engineer, Eden Dynamics Pty Ltd
- 1986-1988 - Workshop Branch of NSW State Rail Authority
- 1985-1986 - Project Planning Dept. at BHP Steel International Group (Slab & Plate Products Division) - Port Kembla

GUIDELINES & POLICY WRITING

- Transport for NSW Asset Standards Authority's RSU 100 Series – Minimum Operating Standards for Rolling Stock – General Interface Standards, Dec 2014; assist with preparing Chapter 6.3 Noise Emissions
- Queensland Development Code Mandatory Part 4.4 – Buildings in Transport Noise Corridors – September 2010, technical input into the preparation of a statewide Guideline which supports the mandatory requirements of Queensland Government's legislation
- NSW Planning Guideline for Residential and other Sensitive Building Developments alongside Major Roads – technical assistance with the preparation of a statewide Guideline which supports the mandatory requirements of the State Environmental Planning Policy (SEPP) (Infrastructure) 2007
- NSW Environmental Noise Management Manual – assistance by carrying out a cost-effectiveness analysis of traffic noise mitigation options and providing feedback on methodology outlined in Manual
- Development of National Guidelines for Road Traffic Noise Management - commissioned by Austroads for Stage 2 of the development of a national guideline / policy, suitable throughout Australia and New Zealand, to minimise adverse environmental impacts and manage road traffic noise

Publications

Peter has published numerous papers for national and international conferences and journals on the topics of environmental noise, rail noise & vibration, road traffic noise, heavy-vehicle noise reduction, construction noise and vibration, and occupational noise. These include:

1. "Heavy Vehicle Noise Reduction Study", Fifth International Congress on Sound and Vibration, Adelaide, South Australia, Dec, 1997, P Karantonis, N Ishac and R Tonin.
2. "Comparison of Occupational Noise Exposure Results Acquired from an In-Ear Probe Tube and an Artificial Ear, for Users of Tele-Communication Headsets", Seventh International Congress on Noise as Public

- Health Problem, 'Noise Effects '98', Sydney, NSW, November 1998, P Karantonis and R Tonin
3. "Managing Noise and Vibration in Construction", Case Earth Award Guides, Case Study 14 in 'The Earthmover & Civil Contractor' Journal, September 2000.
 4. "Application of the NSW EPA's 'Environmental Criteria for Road Traffic Noise' Policy to the Western Sydney Orbital Motorway in Sydney", Acoustics 2001, Australian Acoustical Society Annual Conference, 'Noise and Vibration Policy – The Way Forward?', Canberra, ACT, Nov 2001, T Gowen & P Karantonis.
 5. "Converting Bureau of Meteorology Wind Speed Data to Local Wind Speeds at 1.5m Above Ground Level", Acoustics 2004, Australian Acoustical Society Annual Conference, 'Transportation Noise and Vibration – The New Millennium', Surfers Paradise, Queensland, Nov 2004, T Gowen, P Karantonis & T Rofail.
 6. "Comparing Weekly and Weekday Averaged Traffic Data when Modelling Traffic Noise", 14th International Congress on Sound and Vibration, Cairns, Queensland, July 2007, P Karantonis and D Gonzaga
 7. "Comparison of Traffic Noise Predictions of Arterial Roads using Cadna-A and SoundPLAN Noise Prediction Models", Acoustics 2008, Australian Acoustical Society Annual Conference, Nov 2008, Geelong, P Karantonis, M Chung, D Gonzaga and T Robertson
 8. "Road Noise Aspects of the NSW Infrastructure SEPP's 'Development in Rail Corridors and Busy Roads – Interim Guideline', Acoustics 2009, Australian Acoustical Society Annual Conference, Nov 2009, Adelaide, P Karantonis, J Parnell and N Tselios
 9. "Further Comparison of Traffic Noise Predictions Using the CadnaA and SoundPLAN Noise Prediction Models" ICA 2010, 20th International Congress on Acoustics, August 2010, Sydney, P Karantonis, T Gowen and M Simon
 10. "Environmental Noise – Theory, Modelling & Assessment Legislation: Workshop", Breaking New Ground, Australian Acoustical Society Annual Conference, Nov 2011, Gold Coast, P Karantonis, R Rumble and M Hayne
 11. "Rail Ground-borne Noise and Vibration Prediction Uncertainties", International Workshop on Rail Noise 12, Terrigal NSW 2016, P Karantonis & C Weber
 12. "Use of ISO measurement uncertainty guidelines to determine uncertainties in noise & vibration predictions and design risks", Acoustics 2016, Australian Acoustical Society Conference, Nov 2016, Brisbane QLD, P Karantonis & C Weber
 13. "Ground-borne Noise & Vibration Results from recent Tunnelling & Construction Projects in Sydney (Extended Abstract)", Hear to Listen 2018, Australian Acoustical Society Conference, Nov 2018, Adelaide NSW, P Karantonis, Mattia Tabacchi, Suyash Pareek, Jordan McMahon & Mateo Knezevic
 14. "Ground-borne Noise & Vibration Propagation Measurements and Prediction Validations from an Australian Railway Tunnel Project", 13th International Workshop on Railway Noise, Ghent, Belgium 2019, P Karantonis, C Weber & H Puckeridge
 15. "Ground-borne Noise & Vibration Propagation Measurements and Prediction Validations from a Railway Tunnel Project", Acoustics 2019, Australian Acoustical Society Conference, Cape Schanck, Victoria, P Karantonis, C Weber & H Puckeridge