

Elias Eracleous

BE (Civil)(Hons), MIEAust, RBP, CPEng, NER, PE
Professional Engineer (PE0002203)

Forensic Structural Engineer

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Summary of Expertise:

Elias Eracleous is a suitably qualified structural engineer, with a background in structural design and construction of buildings. He has considerable experience in building investigations, forensic engineering, protection work assessment, structural condition assessment, and expert witness related work.

Elias is a Chartered Professional Engineer [CPEng] and member of Engineers Australia [MIEAust]; is a Registered Building Practitioner [RBP] with the Victorian Building Authority [VBA]; and a Registered Professional Engineer [PE] with the Business Licensing Authority [BLA]; is registered on the National Engineers Register [NER]; and maintains membership in numerous professional and technical societies.

Qualifications, Registrations and Memberships:

- Bachelor of Engineering: BE (Civil) (Honours), University of Melbourne (2000-2003)
- Registered Building Practitioner [RBP], Victorian Building Authority [VBA]
- Member, Institute of Engineers Australia [MIEAust]
- Chartered Professional Engineer [CPEng] with Engineers Australia
- Registered, National Engineers Register [NER]
- Member, Structural and Civil Colleges of Engineers Australia
- Member, Forensic Engineering Society of Australia [FESA]
- Member, Building Dispute Practitioners' Society [BDPS]
- Member, Association of Consulting Structural Engineers Victoria [ACSEV]

Design Engineer Experience:

Structural and Civil Engineering design & documentation and subsequent construction phase support services for a variety of residential, commercial, industrial and institutional building structures, located throughout Victoria and Australia. Some notable design/construction projects include the following:

- Extensive architecturally driven residential projects throughout Victoria
- Sunshine Hospital - Radiotherapy Services Building
- Deakin University Regional Community Health Hub
- Barwon Health - Teaching, Training & Research Facility
- Albury Wodonga Health - Regional Cancer Centre & PET
- Kolbe College - Science & Multipurpose Building
- Plenty Valley Community Health - South Morang Super Clinic
- Dianella Health - Hume GP Super Clinic

- Mitchell Health - Wallan GP Super Clinic
- Kardinia Health - GP Super Clinic, Geelong
- Barwon Health - Community Rehabilitation Centre
- Digital Harbour (Docklands) Plant Extension
- Minifie Park Child Care Centre
- Kathleen Syme Centre Library
- Belconnen Arts & Cultural Centre
- Melbourne University Boat Club

Forensic Engineer Experience:

Engineering Investigations and Reporting pertaining to Structural & Civil Engineering matters, including the following:

- Foundation/footing movement and associated building damage
- Protection work assessment related to neighbouring building work
- Failure/collapse of freestanding walls and retaining walls
- Failure of site earthwork excavations and site retention systems
- Leaking buildings, including roofs, underground basements and external balconies
- Deterioration of reinforced concrete buildings ('concrete cancer')
- Building damage associated with 'sudden' events (e.g. fire, flood, wind, storm, seismic, vehicle, etc)
- Tree root drying/suction effects on building footings within reactive/expansive foundations
- Structurally overloaded, excessively deflected and cracked concrete floor structures
- Preparation of design drawings and specifications for rectification work
- Expert investigations and expert opinion/advice reporting
- Participation in expert conclaves and joint reporting
- Participation in legal proceedings as expert witness at BAB, VCAT, and County Court (Victoria)

Professional Development Activities:

As a Chartered Professional Engineer, Elias maintains a high level of professional development activities, which exceeds the minimum required by Engineers Australia of 150hrs in any 3-year period. Below is a list of some notable courses, workshops and/or seminars which have been undertaken to maintain this high level of professional development:

- Urban Search and Rescue (USAR) Engineer (level 1 & 2) Training Course, MFB, 2006 & 2007
- Red Card Construction Site Training Course, Master Builders Association (MBA), March 2008
- Pre-stressed Concrete Design Course, Cement & Concrete Services (CCS), April 2008
- Reinforced Concrete Design Course, CCS, August 2008
- Durability in Structures Seminar, Concrete Institute of Australia (CIA), March 2009
- Precast for Structural Engineers Seminar, Precast Association, May 2009
- Earthquake Design (John Wilson) Seminar, CIA, June 2009
- Dead, Live and Earthquake Loading Course, CCS, October 2009
- Forensic Engineering Seminar, Engineers Australia (EA), May 2010
- Timber Structures Seminar, EA, June 2010
- Concrete Serviceability Seminar, CIA, July 2010
- Floor Vibrations Design Seminar, CIA, February 2011
- Marine Structures Presentation, J-Steel, March 2011
- AS2870-2011 Design Workshop, Foundations & Footings Society of Victoria (FFSV), May 2011

- Composite Timber Floor and Box Beam Design Workshop, Irwinconsult, May 2012
- Concrete Repair & Corrosion Seminar, Australian Concrete Repair Association (ACRA), July 2012
- Precast Concrete Design & Erection Seminar, CIA, September 2012
- AS2870-2011 - Design & Construction Course, CCS, April 2013
- King Street Bridge Collapse Presentation, EA, July 2013
- Working from Heights & Confined Spaces Training Course, Fire & Safety Australia, October 2013
- Expert Witness Training (Hugh Selby), Unisearch, November 2013
- Protection Work Presentation, Building Dispute Practitioner's Society (BDPS), March 2014
- Shallow Footing and Pile Footing Design Workshop (John Goldfinch), FMG Engineering, March 2014
- Asbestos Awareness Training Course, Alert Force, May 2014
- Waffle Pod Raft Slab Design Presentations, ASBC and HEDRA, March 2015
- Wind Design Course (John Holmes), Technical Engineering Services (TES), May 2015
- Retaining Wall Failures Presentation (Chris Haberfield), IStructE, November 2015
- Geotechnical Engineering Workshop, TES, November 2015
- Treescapes, Buildings and Engineering Seminar, HEDRA, June 2017
- Forensic Engineering Course, Engineering Training Institute Australia, ETIA, August 2017
- Vibration and Structural Assessment of Buildings, STRAAM Group, August 2017
- Masonry Rectification Work Presentation, Helifix Australia, September 2017
- VBA Inspector Training Course, Victorian Building Authority (VBA), February 2018
- Large Scale Retaining Wall Structures Seminar, EA, June 2018
- Expert Evidence and the Best Briefing Process Webinar, November 2018
- Destructive Testing of Timber Utility Poles, Energy Safe Victoria, March 2019
- NCC 2019 Workshop, Victorian Building Authority (VBA), May 2019
- Participation in Expert Conclave and Joint Report, November 2019
- Research and Development of improved footing systems for reactive soils, January-April 2020
- Cracking in Concrete Design Workshop, Engineering Training Institute Australia, ETIA, July 2020
- When Trees are a Nuisance: 'Livingstone v City of Melbourne', FESA, March 2021
- Hydraulic Engineering Design Workshop, Engineering Training Institute Australia, ETIA, May 2021
- Dam Failures (case studies) Seminar, FESA, May 2021
- Executive Summaries in Expert Reports Webinar, Experts Direct, February 2022
- Surface Drainage - Roads & Shared Spaces Webinar, EA, March 2022
- Concrete, Steel and Masonry Repair and Protection Course, ETIA, July 2022
- Participation in Expert Conclave and Joint Report, September 2022
- National Construction Code 2022 - Vol 1 & 2 Webinar, VBA, October 2022
- Engineering Failure Analysis as a Forensic Problem-Solving Tool, FESA, May 2023
- Effective Expert Evidence (Tim Sowden) Presentation, FESA, June 2023
- Below-Ground Waterproofing (Karl Wooton) Presentation, FESA, August 2023
- Proactive Inspections Program and Common Non-compliances, VBA, September 2023
- Blast, Fire & Progressive Collapse Workshop, ETIA, December 2023