

Andrew Barraclough – Resume summary

Education:

2010 - 2016	Doctor of Philosophy (Structural) Curtin University of Technology
2011	Graduate Diploma (Research Commercialisation) Curtin University of Technology
1994 - 1999	Graduate Diploma of Management (Business) Deakin University
1993 - 1994	Masters of Engineering (Manufacturing Systems) Nottingham University, UK
1989 - 1993	Bachelors of Engineering (Mechanical) Nottingham University, UK
1987 - 1989	Associate Diploma (Mechanical) Torquay Technical College, UK

Engineering Registrations:

Fellow of Engineers Australia, FIEAust

Chartered professional Engineer, CPEng, Structural and Leadership & Management

National Engineering Register, NER, Structural and Leadership & Management

Papers & Industry Representation:

Publication:	Title:	Date:
fib Conference, Melbourne 2018	Erection design engineer considerations specifying cast-in bracing anchors in early age concrete, Barraclough & Moeinaddini	Oct 2018
	Pull-out failure mode of shallow embedded cast-in headed anchors, Barraclough & Moeinaddini	Oct 2018
	Punching shear strength of plate dowels in concrete industrial floors reinforced with steel fibres, Barraclough & Moeinaddini	Oct 2018
Australasian Structural Engineering Conference, Adelaide, 2018	Prefabricated concrete temporary works bracing design – Design guide for Erection Design Engineers, Barraclough & Moeinaddini	Sept 2018
	Punching shear strength of flat plates using strut-and-tie model, Moeinaddini, Abdouka, Barraclough	Sept 2018
	Punching shear strength of plate dowels in concrete floor reinforced with steel fibres, Moeinaddini, Barraclough	Sept 2018
	Ultimate strength of moment resisting slab-to-wall connection using cast-in inserts, Moeinaddini, Barraclough	Sept 2018
ConSC17 – Connections between Steel and Concrete Conference, Stuttgart, Germany 2017	Punching shear strength of plate dowels in concrete ground floors, Barraclough & Moeinaddini	Sept 2017
	Development of slab-to-wall connections assisted by experiments and numerical simulations, Barraclough, Cervenka & Moeinaddini	Sept 2017
	Pull-out capacity of cast-in headed anchors in prefabricated concrete elements, Barraclough & Moeinaddini	Sept 2017
Concrete 2017, conference proceedings, Melbourne	Pull-out capacity of cast-in headed anchors in prefabricated concrete elements, Moeinaddini, Barraclough	
Concrete 2015 conference proceeding, Melbourne	Full scale concentric punching shear testing of two-way-floor with bonded post-tensioning and Studrail, Moeinaddini, Abdouka & Barraclough	Oct 2015
Concrete 2013 conference proceedings, Brisbane	Cast-In ferrule connections load/displacement characteristics in shear, Ferrier & Barraclough	Oct 2013
	Performance & ductility in Cast-In plate connections, Farrier & Barraclough	Oct 2013
	Longitudinal Slip characteristics of reinforcing bar splices, McFarland & Barraclough	Oct 2013
	Early age tensile and compressive strength of concrete – Impact on predictions for anchor pull-out capacity, Barraclough & Lloyd	Oct 2013
	Early Age tensile and compressive strength of concrete – predictions for anchor pull-out capacity, Barraclough	Oct 2013
Precast Concrete Institute Convention, USA	Tensile and compressive behaviour of early age concrete, Barraclough	Sept 2012
Australasian Structural & Engineering Conference, Perth	A plate type edge-lift anchor: Shear reinforcement influence on failure loads, Barraclough & Lloyd	July 2012
	A plate type edge-lift anchor: Panel reinforcement influence on failure load, Barraclough	July 2012

Concrete 2011, Conference proceedings, Melbourne	A plate Type Edge-Lift Anchor: Influence of reinforcing configurations on failure modes, Barraclough & Lloyd	November 2011
	Tensile and Compressive Behaviour of Early Age Concrete, Barraclough	November 2011
Concrete In Australia, Magazine Publication	Cast-in anchor design methods, Barraclough	March 2011
	Lifting and transport considerations, Barraclough	December 2010
	Anchor design considerations, Barraclough	December 2010

Industry body:	Description:	Tenure:
Australian Standards	Nominated by Curtin University, BD-066 for AS3850 Prefabricated Concrete Structures, Part 1 – General Requirements (Steering committee member)	2010 – Present
	Nominated by Curtin University, BD-066 for AS3850 Prefabricated Concrete Structures, Part 2 – Building Construction (Technical committee member)	2010 - Present
	Nominated by National Precast and Concrete Association of Australia, NPCAA, BD-084 for AS4671 Steel Reinforcing and Prestressing Materials	2014 - Present
Concrete & Cement Services	Seminar guest lecturer – Concrete Capacity Design Methods	2011 - 2014
Holmesglen TAFE (Chadstone)	Sessional lecturer – Project Management	2012 – 2013
Australian Engineered Fasteners and Anchors Council, AEFAC	Technical committee member, representing ITW Construction Systems	2011 - 2014
Engineers Australia	Member of Engineers Australia	'94 onwards
	Recognised as a Fellow of Engineers Australia.	2016

Industry Certifications:

- Victorian Building Authority, Builder Unlimited, CDB-U 58799
- Victorian Building Authority, Engineering Civil, EC 46301, CEC 53929
- Registered Professional Engineers Queensland, RPEQ 22822
- Chartered Engineer, Engineers Australia, 3812670
- National Professional Engineering Register
- White Card (Building Construction Induction certificate)
- Forklift Licence
- Rigging and dogman licence
- First Aid, Level 2 accredited
- OH&S for managers & supervisors

Recent accredited training:

- Hydraulics design – Drainage and sewer design workshop, September 2017
- Forensic Engineering – Analysis and reporting workshop, August 2017

- Structural Timber Design – Residential construction, July 2017
- Slabs & Footing Design – Residential Construction, July 2017
- Reinforced Concrete Design – Residential construction, May 2017
- Structural Steel Design – Residential construction, May 2017

Analysis Expertise:

- Solidworks 3D: Finitie Element Analysis, Linear homogenous materials
- ATENA: non-linear finite element analysis: Advanced level user, concrete and composite material expertise
- Structural Toolkit, Structural Member analysis and computations