



School of Civil, Environmental and Mining Engineering

Project Titles 2017/18

Pipe Condition Assessment Using Pressure Transients

Supervisor: [Prof Martin Lambert](#)

Analysis of Pipe Condition Assessment using Acoustic Waves

Supervisor: [Prof Martin Lambert](#)

The impact of biofilms on the Biodegradation of Pipes

Supervisor: [Prof Martin Lambert](#)

A Thermo-Mechanical model for Class II rocks

Supervisor: [Dr Murat Karakus](#)

Numerical modelling for rock burst

Supervisor: [Dr Murat Karakus](#)

Pillar Design for coal mining using 3D Numerical Analysis

Supervisor: [Dr Murat Karakus](#)

Quantifying the material and structural behaviour of ultra-high performance concrete

Supervisor: [Dr Phillip Visintin](#)

Enhancing the strength and ductility of reinforced concrete beams through high performance retrofitting

Supervisor: [Dr Phillip Visintin](#)

Discrete Element simulation of concrete and rock failure

Supervisor: [Dr Giang Nguyen](#)

Effect of cyclic loading on mechanical properties of geomaterials

Supervisor: [Dr Abbas Taheri](#)

Rock Burst Vulnerability Investigation by Mechanical Response of Rocks under Compression

Supervisor: [Dr Abbas Taheri](#)

Vibration testing and monitoring of structures

Supervisor: [Dr Alex Ching Tai Ng](#)

Non-destructive evaluation for safety inspection of structures

Supervisor: [Dr Alex Ching Tai Ng](#)

Numerical modelling of lightweight composite and sandwich panels subjected to ballistic impact

Supervisor: [A/Prof Hamid Sheikh](#)

Numerical modelling of composite steel-concrete-steel panels with interfacial shear slips

Supervisor: [A/Prof Hamid Sheikh](#)

Household water use modelling and analysis

Supervisor: [A/Prof Mark Thyer](#)

Modelling of Dilution in Sub-level Caving Operation in Carrapateena Mine

Supervisor: [A/Prof Chaoshui Xu](#)

Assessment of slope stability under complex hydrogeological conditions

Supervisor: [A/Prof Chaoshui Xu](#)