eand
engineering analysis & design pty ltd

NAME: BILL LAI

Current Position: Technical Director,
EAnD.

Qualifications: Bachelor of Engineering (Mechanical, Hons), 1977, University of Canterbury
Master of Engineering Science, 1979, University of Queensland

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FIELDS OF EXPERTISE:

- **a)** Mineral Processing Equipment Design
- **b)** Finite Element Analysis
- **c)** Design & Development of Machinery
- **d)** Engineer Software Development
- **e)** Testing and Measurement
- **f)** Engineering Audits

PREVIOUS POSITIONS:

1989 – 2001 Frank Grigg & Associates Pty Ltd - Associate

1980- 1989 Department of Mechanical Engineering – Chief Scientific Officer

GENERAL

Bill specialises in the design of machinery for mining and industrial applications. He has post-graduate qualifications in numerical analysis including FEA and in vibration theory and analysis. He also has extensive experience in measurement and testing

including the development of instrumentation and data capture and reduction software.

Bill is responsible for development and implementation of computational methods and also measurement and testing at EAnD.

Bill is an experienced machine designer and developer. Some of the machines he has designed include:

1. A range of vehicle hoists for cars, trucks and train carriages with 10, 20, 40 and 60 t capacities;

2. Design of floating aerators for water treatment plants;

3. Tipping bins for cane harvesting on mobile tractor trailers;

4. Continuous miners for hard-rock mining.

PUBLICATIONS:

1. Meimaris C., Lai B., Price B. F., Manchanda S., “How Big is Big? – Revisited”, SAG 2001 Conference, Vancouver.

2. Meimaris C., Lai B., Cox L., “Remedial Design of the World’s Largest SAG Mill Gearless Drive”, SAG 2001 Conference, Vancouver.

3. Meimaris, C., Lai, W. K. K. L., 2011. “On the Comparison between Measured and Calculated Stresses in Large SAG Mills”. Minerals Engineering, v. 24, pp. 1631-1637, 2011.

4. Meimaris, C., Lai, W. K. K. L., 2011. “Fatigue Design of Ball Mills”. Minerals Engineering, v. 30, pp. 52-61, 2012.