

CURRICULUM VITAE

RODNEY D ELVISH

Consultant Metallurgist

SUMMARY

Rod is a Consultant Metallurgist with extensive experience in managerial, technical and commercial aspects of the minerals industry.

He specialises in project development and management, especially involving mineral processing and technologies for recovering precious and base metals from complex ores. He has extensive experience in corporate management, restructuring, mergers and acquisitions, valuations, expert reports and expert witness work. He maintains a strong commitment to community, environment and safety responsibilities.

Much of Rod's work is global. This is recognised by his election to the International Mineral Processing Council (IMPC) where he also represents Australasia on their International Advisory Committee. He is Chair of the IMPC Mineral Processing Commission.

Rod has been chairman and director of ASX listed companies as well as not for profit organisations. He was Chairman of Allstate Explorations (Manager of the Beaconsfield project) at the time of the Anzac Day tragedy and mine rescue. He is a Past President of The AusIMM.

BIERNACKI AND ELVISH ENTERPRISES PTY LIMITED

B E Enterprises was incorporated in 1987 by Rod and his wife Monika Biernacki. The company provides geological, commercial, metallurgical, and mineral economics services to the minerals and financial sectors, specialising in complex iron ore, precious and base metals projects.

Projects undertaken include:

- co-ordination of sampling, testwork and feasibility studies
- independent reports and expert witness work
- financiers' completion tests and technical audits
- metallurgical evaluation of projects and processes
- evaluation of new processes and technologies
- assessor in the Supreme Court of Queensland

TECHNICAL EXPERIENCE

IRON ORE

- Concentration of BIF, Marra Mamba and saprolite iron ores
- Pelletising and direct reduction
- Slurry pipelining as an option to rail transportation
- Heavy media, high & low intensity magnetic separation
- Membership of Australian and ISO iron ore standards committees

PRECIOUS METALS

- Reopening of the Beaconsfield gold mine and treatment of its refractory gold ore
- Multi-lift heap leaching
- Conventional CIP, CIL and resin based gold processing
- Adapting flotation to process UG2 PGM ores
- Roasting and biological oxidation of refractory gold ores
- Recovery of platinum group metals from complex ores

BASE METALS

- Comminution of complex sulphide ores
- Complex differential flotation
- Gravity separation
- Co-recovery of high value metals including cobalt, bismuth and selenium
- Hydrometallurgy, high pressure acid leaching, solvent extraction and electrowinning

OTHER

- Tungsten - scheelite processing and APT
- Ilmenite, rutile and zircon – sands and hard rock
- Expert reports and witness work
- Due diligence reports

QUALIFICATIONS

Post Graduate Diploma of Geoscience in Mineral Economics, Macquarie University.
 Fellowship Diploma of Primary Metallurgy, RMIT.
 Associate Diploma of Metallurgy, RMIT.
 AICD Company Directors Course - Graduate with Order of Merit
 Practitioner's Certificate in Mediation and Conciliation – IAMA

PROFESSIONAL AFFILIATIONS

Honorary Fellow, Chartered Professional and Past President, The Australasian Institute of Mining and Metallurgy
 Member, Mineral Industry Consultants Association Inc
 Fellow, The Institute of Materials, Minerals and Mining (UK)
 Fellow, South African Institute of Mining and Metallurgy
 Fellow, Australian Institute of Company Directors
 Member, American Institute of Mining and Petroleum Engineers (SME and TMS)
 Member, Canadian Institute of Mining and Metallurgy
 Associate, The Institute of Arbitrators and Mediators Australia
 Registered Professional Engineer Queensland (No 10157)

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