

HALES & GOOCH LTD.

LARGE LOSS AND DESIGN PROCESS INVESTIGATIONS

Shayne Gooch, PhD

Shayne Gooch has 22 years engineering experience ranging from specialist professional activities to applied industry practice. He is a Senior Lecturer at Canterbury University in Christchurch, New Zealand and a visiting fellow at the University of Melbourne. Dr. Gooch has taught both postgraduate and senior year undergraduate engineering design for the past six years.

Dr. Gooch has a Ph.D. and Bachelors Degree in Mechanical Engineering from Canterbury University and a New Zealand Certificate in Engineering from Christchurch Polytechnic in New Zealand.

Dr. Gooch's professional engineering experience includes, but is not limited to: accident investigations involving humans and machinery; failure and loss investigations involving technical systems; advanced mechanics of machines research; heavy rotating machine design; materials handling; waste water treatment; consumer product design; vehicle dynamics; and design of steel structures.

Dr. Gooch is a member of the American Society of Mechanical Engineers (ASME). He is the current Chair of the Information Management Committee for the Design Engineering Division and he is a member of the ASME International Activities Committee. Dr. Gooch is a member of the Editorial Board for the Journal of Engineering Design (Taylor & Francis, London, UK) and active in peer review of international journal and conference papers in the areas of engineering design and mechanical vibrations. Dr. Gooch is co-author of the book *Managing Engineering Design* (2nd ed: Hales & Gooch, 2004). He has authored many papers on engineering design, machine vibrations and engineering education.

Dr. Gooch began his engineering career at the New Zealand Electricity Department where he completed an apprenticeship and later his Advanced Trade Certificate as a Fitter, Turner and Machinist. Dr. Gooch has significant practical experience in the maintenance of heavy rotating machinery (e.g. hydro power turbines and synchronous condensers), and maintenance of high voltage switchyard equipment and transmission lines. Dr. Gooch's familiarity with industrial safety procedures, including his operational experience in the electricity sector, is invaluable in providing commonsense solutions to workplace health and safety issues.

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