

Julian Rusconi, Pr Eng., BSc Eng (Mech), MBL



Julian held key positions for various manufacturers of industrial automated machinery as well as Dow Chemical before joining Paterson and Cooke Consulting Engineers in 2005. Key areas of expertise include:

- Project management of a wide range of engineering projects from conceptual design through to commissioning
- Design of high speed, automated process equipment
- Hydraulic, process and mechanical design of large scale pump and piping systems
- On-site commissioning
- Production management
- Business management

He presents at company courses and wrote and presented papers at an international conference held in Chile in 2009.

Qualifications

1994, BSc (Mech) Eng (Awarded with Honours), University of Cape Town

2003, PBL (12 month program in business leadership), Unisa

2005, MBL (Masters in business leadership), Unisa

Professional Status

Registered Professional Engineer (PrEng, registration number 20070050)

Member of the South African Institute of Mechanical Engineers (SAIMechE, membership number 301473)

Specialization

Project management

Detailed mechanical design, construction management and commissioning of slurry pumping systems

Notable Projects

Rand Uranium Definitive feasibility study of tailings pumping systems associated with their new Uranium plant, South Africa (2009)

Project management and mechanical design of slurry pumping systems required for large scale Uranium processing plant.

Lonmin Platinum Mine, South Africa (2008)

Project management and detailed mechanical design of Gland Service Water system for Lonmin's Roland shaft tailings pump station.

De Beers Venetia Mine, South Africa (2008)

Project management and cost estimation of the mechanical and E&I for a Class 0 study of various pumping system designs for the existing and proposed tailings dams.

Exxaro Co-disposal System for Hillendale Mine, South Africa (2007-2008)

Project management of the detailed design of a large scale system to re-constitute residue and sand tailings in order to rehabilitate the mined areas. Julian also managed the commissioning during 2008

OCP Phosphate slurry pipeline, Morocco (2007-2008)

Pre-feasibility study of the proposed 206 km phosphate pumping system between Khouribga and the port of Jorf Lasfar.

Lonmin Platinum Mine, South Africa (2006 – 2008)

Project management of the detailed design, purchasing, construction and commissioning of tailings and return water pump and piping systems for Lonmin's new Karee K4 tailings dam number 4. This includes mechanical, electrical and instrumentation design of new tailings, return and storm water pump stations and overland pipelines.

Ramu Nickel Laterite Project, Papua New Guinea (2007)

Responsible for project management of the hydraulic, mechanical and process basic engineering of the 128km Nickel Laterite freight pipeline. The work was done in partnership with BRASS International.

KOV Tailings System, Democratic Republic of Congo (2007)

Responsible for the basic engineering of the tailings pump and pipeline system associated with the new DCP Cu / Co refinery for the KOV mine.

Companhia Niquel Tocantins deep cone thickener pumping systems, Niquelandia, GO, Brazil (2006)

Responsible for managing the sample testing and conceptual design of thickener pumping systems for a Dorr-Oliver Eimco Deep Cone™ thickener. This includes underflow, recirculation and emergency recycle streams.

Fairbreeze Heavy Minerals Mine, South Africa (2005 – 2006)

Responsible for managing the conceptual and detail design phases of Ticom South Africa's Fairbreeze Site A and Valley Dam Mine tailings systems. This included: thickened slimes pumping and disposal system, sand tailings pumping systems for tailings storage facility wall building and mining area rehabilitation and return water pumping systems.

Filmatic Packaging Systems (2003 – 2005)

Design manager responsible for a team of mechanical and electrical engineers to design high speed automated liquid packaging equipment.

Publications

Rusconi, J.M., Goosen, P., Venter, J., (2009): "Co-Disposal Plant and Distribution System to Allow the Proper Closure of Exxaro's Hillendale Mine Site", Paste 2009, Australian Centre for Geomechanics, Viña Del Mar, Chile 2009.

Van der Walt, H., Rusconi, J.M., Goosen, P., (2009): "Appraisal of Conventional and Paste Options for the Disposal of Tailings Over the Remaining Life of the Venetia Diamond Mine", Paste 2009, Australian Centre for Geomechanics, Viña Del Mar, Chile 2009.

Rusconi, J. M. & Rusconi R. D, 2005. Job Satisfaction and Motivation: A Study of South African Actuaries and Engineers. Convention of the Actuarial Society of South Africa, November 2005, Johannesburg, South Africa.