



# CALDER PROJECTS SERVICES

## NEWS - AUTUMN 2009

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Message From

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Since the last newsletter the global financial crisis (GFC) has started to impact on the local engineering scene. Alcan Engineering are no more and availability of people in Brisbane is good. Coal, tin and gold are holding up reasonably well. Aluminium and nickel seem to be in trouble price wise. Copper fell away but looks to be regaining strength due to its fundamental usefulness and tighter supply and its long term outlook seems strong. Rare earth metals such as Rhenium are now in the limelight with Ivanhoe Australia announcing the discovery of Merlin the world's richest deposit in Qld. Interest rates and energy costs have come down. Forecasters give widely differing views on what lies ahead for the minerals markets. China is still a key factor. Despite all this uncertainty, good engineering advice remains an invaluable commodity.

We counsel clients not to get distracted by the short term drivers. Developing resource projects is a long haul business and future commodity prices will always be uncertain. Quality mineral deposits which apply innovative engineering and result in low capital and processing costs will make profits and sustain themselves in any market. Calder offer our clients innovative thinking and deliver good engineering value for money. We are responsive to client needs and flexible in our approach which we believe delivers a superior service to our clients, many of whom provide repeat business. We do well if our clients do well. Luckily most of our clients have avoided the worst of the GFC but storm clouds are still ahead.

Congratulations to Omar (Daniel) Maloney and Kishwar Salam who were united in marriage on March 14th 2009. Daniel and Kishwar recently returned from a honeymoon in Bali and Lombok, Indonesia. We wish the newlyweds all the best in the future!



Congratulations to Seamus Hasson Calder's Construction Supt - who has successfully launched his Food Grade Plastic Bee hives onto the international market. Seamus was profiled in the very first ever Calder Projects Newsletter.

Seamus has spent many years developing his product, and it's wonderful to see that his hard work and dedication has resulted in a successful outcome. Well done Seamus and all the best to Hasson Hives.

If you are interested in his innovative products, be sure to check out Seamus' website at [www.aussiehive.com.au](http://www.aussiehive.com.au)

Calder has once again upgraded its server capacity and its IT infrastructure. We have also been receiving a great deal of praise about our new look website, designed by our very own Susan Fox. Good work Suzie! If you haven't already checked it out click on the link below to see our new look webpage! [www.calderprojects.com](http://www.calderprojects.com)

Congratulations to Cape Alumina for the new office opening and recent appointment of a new chairman George Lloyd and Study Manager David Byrom.

Calder partners Jim Calder and Daniel Maloney attended the late April opening function of Cape Alumina's new offices in Cordelia St South Brisbane.

Congratulations to Finders Resources for the successful start up of their Wetar Copper demo plant. After some small electrical hiccups in February, the plant is now producing above its 5 tonne per day nameplate capacity and several 60 tonne shipments of cathodes have been dispatched. Calder were proud to be part of the team in conjunction with Millermet and Electrowinn Consulting in designing the SXEW plant. Finders are now looking to re activate their Feasibility Study ( which had been suspended) for the commercial operations and we look forward to assisting them again in the very near future.



*5tpd Copper SXEW Demonstration Plant—Wetar Island, Indonesia.*

### SILVER HILL PRE-FEASIBILITY STUDY

Calder have concluded their capital cost estimates and process plant layout work for the Silver Hill Pre-feasibility Study for AustralAsian Resource Consultants. Conquest Mining's board have now decided the project is robust financially and will take the project to Definitive Feasibility Study level.

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## MT ALLISON GARNET PROJECT - CONCEPT STUDY

Calder are assisting AARC with conceptual layouts and process inputs for a garnet project targeting abrasive blasting product's as part of a feasibility study. Mt Allison is located in central Queensland, north of Biloela.

## MHF No. 4 ROLLER MILL

The EPCM project for the additional No 4 Roller Mill continued to make good progress, on time and budget as part of the Parkhurst expansion in early 2009. This project is now on hold pending improvements in the magnesia market place. A detailed cost estimate was carried out by Calder.

## IVANHOE AUSTRALIA

The Mt Dore Scoping study is marking time waiting for metallurgical test results— meanwhile Ivanhoe have confirmed Merlin as the richest Rhenium deposit in the world which has seen a resurgence in their share price.

## CITIGOLD –WARRIOR MINE VENTILATION

Calder's foundation client Citigold continues to provide Calder with repeat business. This time around, the work involves an upgrade to the underground ventilation system at the Warrior Gold Mine located in Charters Towers, North Queensland. Calder assisted with the original ventilation design and installation back in 2006, when the mine was at 110 metre level.

Now once again Calder has been commissioned to carry out another expansion to the underground ventilation system at a depth of 370 metres. This will involve a new fan, power and services supply, raise boring contracts, surface works and general project management of the installation.

The budget and schedule are currently being developed by Calder for approval by Citigold's board.

## SAM

Congratulations to 'The Dutchman' on the successful granting of a gold mining license to his company, Solomans Alluvial Gold (SAM).

## **STAFF PROFILE — Thisara (Tim) Adikari**



*“It's great to get 'hands-on' experience with a team of professionals that have confidence in my work”*



Thisara is a young Project Engineer who has already achieved a great deal even before he's completed his engineering degree at QUT. Already equipped with a Bachelor in Business Marketing, Thisara or Tim as he's known around the office, is graduating with his second degree, a Bachelor in Engineering (Civil) from Queensland University of Technology this Semester.

Since commencing with Calder in mid 2008, Tim has excelled, not only in the engineering field, but also on the business development side.

Tim's marketing and written skills have proved

very effective on several occasions, including expressions of interest, client introductions and bidding for potential jobs. It is not an uncommon occurrence to see Jim, Danny or other members of the Calder team ask Tim to add a 'magic-touch' to their documents or letters.

According to Tim, his role at Calder is challenging but also very rewarding. "It's great to get 'hands-on' experience with a team of professionals who have confidence in my work".

This year serves as a milestone for Tim. Not only is he studying full time for his final semester

whilst working, he's also the Vice President of the 2009 Civil Engineering Social Society at QUT.

Tim says he has enjoyed his time at university, but is looking forward to the pace of fulltime work and not having to worry about assignments and exams for a little while to come.

He still has a significant milestone to overcome before graduating. His thesis on 'fibre reinforced concrete' is due for submission around the same time as his end of semester examinations.

We wish Tim all the best with his thesis and his final examinations, which are only a few weeks away.