

# GEMS Uncut

## 1300 Contact Us

- by Oliver Glockner

We have a new phone and fax number!

In addition to our mobile contact numbers a message service is now available on 1300 76 30 50.

Just let the operator know whom in GEMS it is you wish to contact, and leave a message. We should then receive a sms text and an email message that you've called!

All our business mobile numbers are still listed on the [contacts section](#) of the web site.

The new fax number for GEMS is 1300 76 40 50.

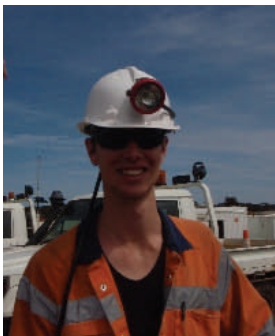
### Special points of interest:

- NEW CONTACT NUMBERS  
PH: 1300 76 30 50  
FAX: 1300 76 40 50
- TRISTAN MANDER HAS TAKEN ON THE ROLE OF A GEMS UNIT LEADER.
- ALEX ROBESON HAS JOINED THE TEAM.
- TRISTAN SOMMERFORD HAS JOINED THE TEAM.
- DAVID BAIRSTOW HAS JOINED THE TEAM.
- NEW CONTACT NUMBERS  
PH: 1300 76 30 50  
FAX: 1300 76 40 50
- GNSS—GPS UPDATE
- EXPOSING EMAIL SCAMS

## Tristan Mander Appointed as Unit Leader

- by Oliver Glockner

Tristan Mander has accepted the appointment of Unit Leader within GEMS.



The Unit Leader is responsible for implementation of the [Business process](#); the way we go about our business.

Both Greg Valli (COO is a Unit Leader in his own right) and Tristan have been with GEMS for several years now, and have a good understanding of how GEMS interacts with clients, the standards we want to achieve, and the image we want to project as consultants.

It's not about the academic or statutory qualifications, but about the Attitude!

The business process begins with a customer's need and ends with a customer's need fulfillment.

So, the Unit Leader is there to train and supervise other team members in these systems that create and deliver the business products and services ie Business process.

The Unit Leader reports directly to the [chief operating officer](#) (COO - Greg Valli), and indirectly to the [chief executive officer](#) (CEO - Oliver Glockner).

Congratulations Tristan!



## Where are we now?

- by Greg Valli

### Greg Valli



Since being appointed to COO in June this year I have focused on expanding consultancy side of GEMS and setting up the recruitment division.

I also spent time and Marvel Loch Underground as a Mining Engineering consultant to St Barbara Ltd, and at Lake Johnston consulting to Norilsk Nickel.

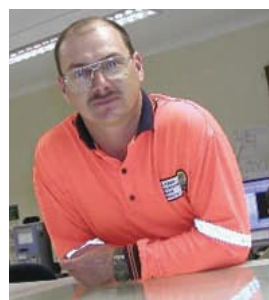
Work based in Perth is on the cards now!

### Oliver Glockner

Since early this year Oliver's been consulting to St Barbara Mines as the Senior Mine Surveyor at their Southern Cross Operations.

Still at Marvel Loch, but not so lonely as we've managed to place a few of the GEMS team here now!

This is in conjunction with executive and administration functions of GEMS.



### Inside this issue:

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- MOVING FORWARD = INCREASING QUANTITY AND QUALITY **3**



## Where are we now? - continued.

### Tristan Mander



Tristan is continuing to gain his underground survey time consulting to St Barbara at Southern Cross Operations.

Tristan has also been promoted to a unit leader position and upon further expansion of GEMS will assist in mentoring some members of the GEMS Team in the way we do business.

Congratulations Tristan, this promotion is a just reward for your effort, loyalty and commitment over the past 4 years!

### Kye Chambers

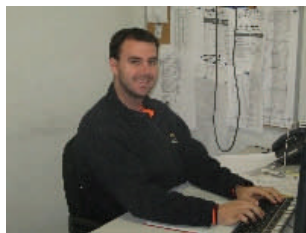


Kye is consulting to HWE Mining at Cockatoo Island as a Mine Surveyor.

His work ethic and standard has continued to impress the client.

Well done, keep up the good work Kye!

### David Bairstow



Dave joined the team in September and initially consulted to Norilsk Nickel, Lake Johnston Operations as the Senior Mining Engineer.

He is now currently consulting to St Barbara Ltd as the Mine Planning Engineer at Southern Cross Operations.

Welcome to the team Dave.

### Tristan Sommerford



## FREE Downloads ... This issue: GPS, and GDA <> MGA

- by Oliver Glockner

Many are now familiar with the Global Positioning System (GPS).

The car navigation units are the hot ticket item for Christmas gifts, and GPS is reported as one of the most sought after items in new mobile phones!

GNSS is relatively new terminology which describes not only GPS, but a whole range of emerging satellite positioning technologies. This is discussed in more detail in a latter article entitled "Is GNSS Worth While?" by Greg Valli.

Tristan joined the team in September and is now currently consulting to St Barbara Ltd as a Drill and Blast Engineer at Southern Cross Operations.

Welcome to the team Tristan.

### Alex Robeson



Alex has also joined the team in September and is consulting to HWE Mining in the role of Appointed Mine Surveyor for Cockatoo Island.

Alex has a qualification as a WA Grade 2 Surveyor and is currently studying Mining Engineering.

Welcome to the team Alex.



Email scams, internet hoaxes ... See the sites below for sources of clarity and codswallop;

[www.scamwatch.gov.au](http://www.scamwatch.gov.au)  
Aussie government exposing fraudsters and scammers

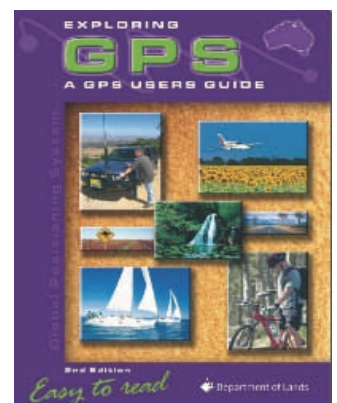
[www.hoaxslayer.com](http://www.hoaxslayer.com)  
Email scams and rumours

[www.nonprofit.net/hoax](http://www.nonprofit.net/hoax)

[www.museumofhoaxes.com](http://www.museumofhoaxes.com)  
A great laugh!

[www.419eater.com](http://www.419eater.com)  
The scammer vigilante site!

BY ALL MEANS  
TEST MY LOGIC,  
BUT NEVER  
QUESTION MY  
AUTHORITY!



"Exploring GPS" (PDF 2.7mb)  
NSW Department of Lands.  
See their site at  
[www.lands.nsw.gov.au/survey\\_maps/surveying](http://www.lands.nsw.gov.au/survey_maps/surveying)

## FREE Downloads ... continued



Converting Geographic to Cartesian Co-ordinates

ie Lat Longs to MGA94

Another handy download is a simple Excel spreadsheet for converting between GDA and MGA.

Using Redfearn's formula

## Is GNSS Worth While?

- by Greg Valli

By now most people particularly those in the survey world have heard of the Global Navigation Satellite System (GNSS).

It seems however that not all mining companies through out Australia believe that changing their survey equipment from GPS to that compatible with GNSS is worth while.

For those who haven't heard, GNSS is the standard term for satellite navigation systems that provide autonomous geospatial positioning.

Everyone of course is familiar with GPS as to date it is still the only fully functional GNSS which use is more expensive than surveying.

However, were you aware that GLONASS the Russian system will be fully functional with 30 satellites by 2012?

The major disadvantage of any GNSS use in surface mining operations is the reduction of the sky window at the pit floor.

This worsens progressively as the pit deepens and for the same reasons surveying

closer to pit walls is even more cumbersome.

It is therefore imperative to utilise the available sky window as best possible.

So why not use a receiver that can utilise GPS and other GNSS satellites?

To illustrate my point, surveyors with GPS currently have 30 satellites available for use.

On the other hand, surveyors currently using GNSS compatible receivers are reaping the benefit of having an extra 18 GLONASS satellites available for use, so 48 in total or 60% more.

The benefits of GNSS receivers don't just end with the resurrection of GLONASS.

There are many other GNSS's that are proposed to come online over the next decade and these include:

Galileo a European system similar to GPS with 30 Medium Earth Orbit (MEO) satellites. Expected to be online by 2013;

QZSS is a Japanese system consisting of 3 geostationary

the (XLS 70kb) file was sourced from the Intergovernmental Committee on Surveying and Mapping (ICSM) web site — GDA Technical Manual and Transformation Software page.

See

<http://www.icsm.gov.au/icsm/gda/gdatm/index.html>

high altitude satellites which will orbit in a "figure 8" pattern from north of Japan to the southern extent of Australia. The first satellite will be launched in 2009;

COMPASS the Chinese system with 5 geostationary and 30 MEO satellites partially online by 2009 then expanding to a global system;

IRNSS an Indian system due to be online in 2012 consisting of 3 geostationary and 4 geosynchronous satellites.

All of this means that by 2015 there potentially will be 130 GNSS satellites available for use including GPS and GLONASS. This in turn means better geometry, faster initialisation and fewer blackouts due to lack of satellites which translates to higher productivity.

GNSS is therefore not only worth while but essential!

For more information on GNSS go to

<http://www.insidegnss.com/>

Reference: Trimble Express 2008 Perth hosted by Haefeli-Lysnar <http://www.haefeli-lysnar.com.au/>

## Moving Forward = Increasing Quantity with Quality

- by Oliver Glockner

Some-one whose opinion I highly regard ask me recently how we're going to expand and maintain our quality?

I've been pondering on this,

and my answer is: Appraisals and Value Plus!

We're going to be expanding our self-appraisal and audit system. Stay tuned!

We've also extending in Value Plus by introducing equipment supply options to our clients.

New Trimble GNSS & S6 system is now at Cockatoo!

**Magic Touch**

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Magic Touch of Karrinyup

Can't finish off without giving Eileen's salon a plug again!

Even if you're not into the treatments yourself, they've got some great Christmas gift packages available for your partners.

The salon is in the Perth Metro area—Karrinyup

Ph 08 9446 6720

[www.magictouchbeautysalon.com.au](http://www.magictouchbeautysalon.com.au)

WHAT DO YOU CONSIDER YOURSELF AS IN THE WAY YOU DO YOUR JOB? A TRADESMAN, OR A CRAFTSMAN?



Festive season again!

I'd like to thank all who have worked with us in the past years,

And wish you all a safe, Merry Christmas and a Happy New Year.