



# SEG Mentor

Mark Burdett



## Contact Information

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## Current Position and Focus (areas of research and/or interest in economic geology)

**A)** Current PhD Topic: The role of volatile-rich melts on the distribution of PGE deposits in magmatic systems. The aim of my project is to investigate how volatile phases control Pt-Pd-enrichment in fractionating magmatic systems. By combining both experimental and field-based research, I will explore the concept that volatile elements play a fundamental role in concentrating Pt and Pd in many magmatic deposits and provide insights into system fertility and better exploration vectors.

**B)** Consulting Geologist

## Relevant Education/Work Experience

BSc. Geology [Hons]

The University of Adelaide. Master of Economic Geology

CODES, University of Tasmania

P.h.D. Candidate, Monash University, Victoria

Professional career:

- 7+ years as exploration geologist
- Target generation and exploration for IOCG, VMS, gold systems, & uranium
- Planning and management of exploration field programs
- Field mapping and structural analysis – specializing in Proterozoic terrains
- Metamorphic, igneous, and ore petrology

## Hobbies and Interests

Cycling, running and gym, salsa dancing and beginners tango, overseas travel, touch football, cooking for friends, red wine

## Nationality

Australian / United Kingdom

## SEG Activities (e.g. positions held, former student membership details)

I am an active member of the following:

Society of Economic Geologists (SEG)

Geological Society of Australia (GSA)

Australian Institute of Geoscientists (AIG)

Society for Geology Applied to Mineral Deposits (SGA)

President of the Monash University SEG Student Chapter 2010

## Personal Philosophy on Mentoring

As an experienced industry professional and academic student I understand how each discipline can advance the other.

I have sort mentors during my career and have always profoundly enjoyed the sharing of experiences that follows. We all have to decide where we are heading, but a little insight can help us choose the most interesting and rewarding path, I value the open mind and absolutely love geology so I am very happy to hear from anyone who may benefit from my

	encouragement, insight and/or assistance in either academia and its application in industry.
<b>Languages Comfortable Communicating With</b> English	<b>Other Relevant Information</b> <a href="http://monash.edu/science/about/schools/geosciences/postgrad/directory/burdett.html">http://monash.edu/science/about/schools/geosciences/postgrad/directory/burdett.html</a>