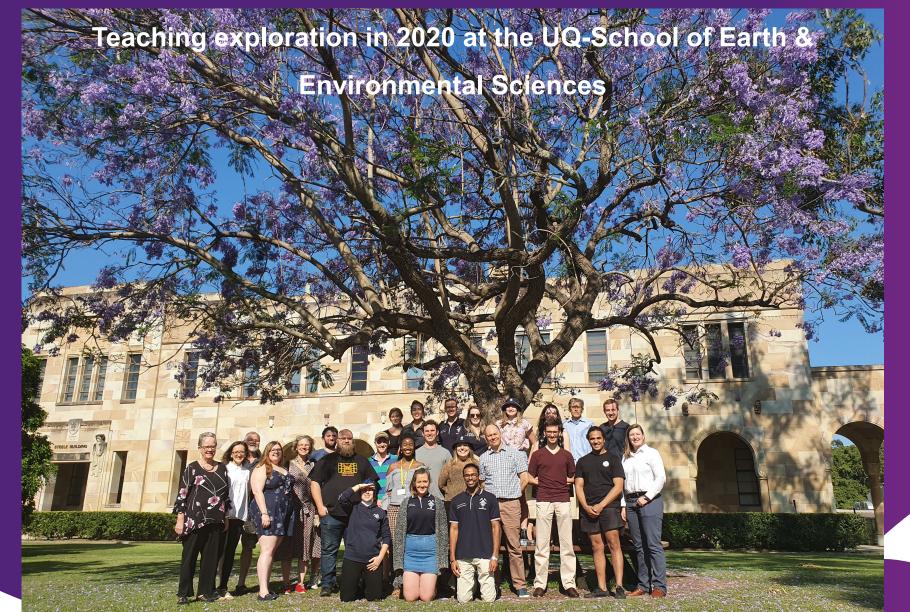


Queensland Exploration Council Technical Forum 2020

"Exploration masters, winners and the future"



Prof Sue Golding



What do we offer for students aiming to work in minerals (and energy) exploration?

Undergraduate level: solid background formation in second year with a range of applied courses in third year:

Ore Deposits & Exploration

Energy Resources

Exploration Geochemistry

Ore Body Modelling

Advanced Earth Observation Sciences

Field Geology: Mapping in the Outback

Honours: Geological Sciences

Postgraduate level: Master of Mineral Resources

Masters by course work targeting mining industry professionals aiming to acquire new skills

CPD courses (Cognate Centres)



Plenty of fieldwork activities

Ore Deposits & Exploration Geology



Students mapping hydrothermal alteration at Ban Ban Springs

Field Geology: Mapping in the Outback



Mapping & field techniques in both simple and complex metamorphic terrains at Mt Isa



Very hands on courses

Exploration Geochemistry



Modern developments in understanding geochemical systems & techniques applied to mineral exploration:

Sample collection and QA/QC systems

Analytical methods

Data interpretation using loGas

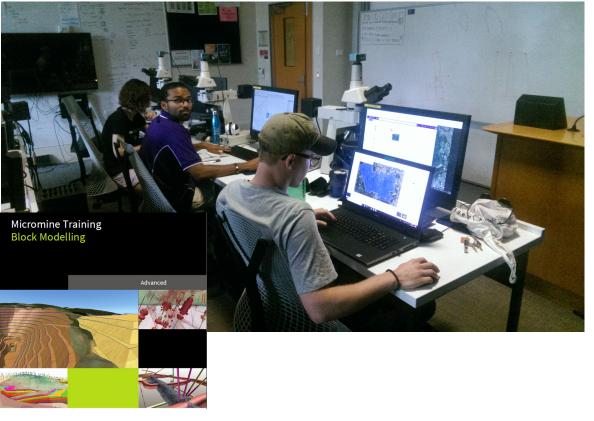
Identification and prioritization of exploration targets

"Feel that everything we did in this course really prepared me for the industry, and that I would have made a fool of myself in my first geology job if I didn't do this course" – Testimonial from former student



... Courses using the latest technology

Ore Body Modelling



Geological modelling and resources estimations using mining packages: Data collection and QA/QC systems 3D geological modelling Resource estimations JORC report

"This course was fantastic. I have learnt so much from the course, and not just from Surpac. This course is a great eye opener to what industry geological work is like. Very few subjects offer such knowledge and opportunities. What I enjoyed most was the course content and the practical application of my geological knowledge to create ore systems" – Testimonial from former OB Modelling student



Dark clouds ahead.....

- ✓ Large first year classes but number of earth sciences students graduating have dropped year on year since 2015
- Second year class numbers good but include a range of disciplines (e.g., geological sciences, environmental sciences, archaeology)
- \checkmark Only 15 students starting the third year in 2020
- ✓ Low number of students require the reduction of third year courses to maintain program sustainability
- ✓ Some industry focused courses may not be offered in the future



Thank you

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