



## Professional Geologist Short Course

# Ore Textures & Breccias Recognition Techniques

Course Leader: Dr Gavin Clarke

28th - 30th January 2019

College of Science & Engineering  
James Cook University  
Townsville, QLD, Australia  
[jcu.edu.au/egr/](http://jcu.edu.au/egr/)

## Course Content

This three-day course covers the fundamentals of textural observation and interpretation in mineralised hydrothermal systems.

The techniques used are simple, highly effective, and require no specialised equipment. The techniques also advance geological understanding as they generate numerous questions about the mineralisation and commonly provide vectors towards mineralisation for drill testing.

Critical evaluation factors covered during the course include:

- › Infill: Recognition Criteria
- › Alteration: Recognition & Evaluation
- › Channelways: Recognition Criteria
- › Overprinting and Paragenesis: Recognition & Sequencing Criteria
- › Breccias: Recognition Criteria
- › Breccias: Rudimentary Classification
- › Tectonic Breccia Systems
- › Intrusive Breccia systems
- › Paragenetic Core Logging

The course comprises lectures and practical sessions.

This is a Level 4 (Honours) course suitable for early career geoscientists. Participants will be working alongside JCU Geoscience Honours students.



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### Ore Textures & Breccias

Course Leader: Dr Gavin Clarke



Gavin Clarke is an Adjunct Research Fellow at James Cook University. He has extensive research, exploration and training experience in altered and brecciated mineralised systems, both in Australia and overseas.

#### Registration Fees (AUD inc GST)

EGRU Members \$ 990.00

AIG Members \$1485.00

Non-Members \$1650.00

#### Registration Fees include:

Morning & Afternoon Teas

Lunches

Course Notes

Further information contact Judy Botting:

[Judith.Botting@jcu.edu.au](mailto:Judith.Botting@jcu.edu.au)

Register on the EGRU web site:

<http://www.jcu.edu.au/egru/>

## EGRU Professional Geologist Short Courses

Courses in 2019 include:

January - February

- › Ore Textures & Breccias: Recognition Techniques (3 days)
- › Core Logging Techniques (2 days)
- › QAQC for Mineral Exploration & Beyond (1 day)
- › Integrating Geochemistry & Mineralogy for Exploration (1 day)
- › Management in Mineral Exploration (5 x 1 day modules)
- › QGIS for Geologists (1 day)
- › Introduction to the JORC Code (1/2 day)
- › A JORC Code Refresher (1/2 day)
- › Geological Uncertainty & Risk (1 day)

June - July

- › Advanced Field Training (8 days - Cloncurry region)

<https://www.jcu.edu.au/economic-geology-research-centre-egru/professional-development/courses>