

Ore Textures & Breccias in Mineralised Systems: Porphyry Copper Systems

EGRU Short Course

(presented as part of the MTec Honours program in 2 Modules)

COURSE PRESENTERS

Dr Roger Taylor - specializes in ore texture characterization and is the author of the well known illustrated book series "Ore Textures".

Dr Brian Rusk - X-Strata Research Fellow, Senior Lecturer, SEES, JCU

Dr Rowena Duckworth - EGRU Manager, Postdoctoral Research, SEES

Date: 22nd – 26th March, 2010

Venue : EGRU, James Cook University
Townsville, QLD



Cost:	Module 1	Module 2
EGRU Member	\$850.00	\$400.00
Non-EGRU Member	\$1000.00	\$500.00

This course is designed to provide practical tools and skills to allow exploration and mining professionals to identify and describe ore textures and breccias in mineralized systems & porphyry copper systems. The course is split into two modules which can be attended separately. The emphasis is on skills that can be readily applied in the field and to drill core. Graduate geologists who need to build their practical skills and those of you needing a refresher will gain the most from this course.

Module 1: 3 days (Mon-Wed) Ore Textures & Breccias in Mineralised Systems

Presented by Dr Roger Taylor and Dr Rowena Duckworth. Aims to develop field-relevant recognition skills over three days and covers:

- Characterization of ore textures;
- Identification of different breccia components, textures, types and systems;
- Recognition criteria for infill, alteration, overprinting and breccias;
- Distinguishing between infill and alteration techniques;
- Determining paragenetic sequences in drill core and hand specimens;
- Applications to porphyry copper-gold, skarn, epithermal, lode gold and iron oxide-copper-gold deposits;
- Recognizing these textures in drill core;
- Several examples including Grasberg, Oyu Tolgoi, Olympic Dam and Ernest Henry.

Module 2: 2 days (Thurs-Fri) Porphyry Copper Systems

Presented by Dr Brian Rusk and Dr Roger Taylor. This module is designed to emphasise practical aspects and examine the links between porphyry and high sulfidation deposits and includes the following sections:

- Porphyry copper-general features-basics of the system.
- Structural controls and related aspects.
- Alteration systems –recognition-patterns.High sulphidation advanced Argillic systems-general including features-alteration-links to porphyry copper deposits.
- Hydrothermal fluid characteristics and models of ore deposit genesis.Case study from one of the biggest and best studied porphyry copper deposits in the world – Butte, Montana.

A suite of alteration styles will be available for inspection.

Ore Textures and Breccias in Mineralised Systems: Porphyry Copper Systems Registration Form

Please register by 16th March 2010



NAME

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COMPANY

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ADDRESS

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PHONE

FAX

EMAIL

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EGRU Manager
Rowena Duckworth
07 4781 4597

Administration
Judy Botting
07 4781 4726

“I acknowledge as a short course participant that I will partake in the practical assessment of the course.”
Withdrawal Fee of \$100.00 applies if cancellation after 16th March. Refunds are not available for non-attendance. We reserve the right to cancel the course if numbers are insufficient. Please ensure that air tickets and hotel bookings are refundable.

	Module 1		Module 2	
EGRU Members	\$850.00	<input type="checkbox"/>	\$400.00	<input type="checkbox"/>
Non-EGRU members	\$1000.00	<input type="checkbox"/>	\$500.00	<input type="checkbox"/>
Payment details	Credit Card <input type="checkbox"/>	Invoice <input type="checkbox"/>	Cheque <input type="checkbox"/>	

Credit Card Details **Visa** **Mastercard**

Expiry date **Name on card**

Signature

Return form to:
 Economic Geology Research Unit (EGRU)
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 Fax +61 (0)7 4781 5390

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