



Ores in Sediments

12–14 November 2006

CODES, ARC Centre of Excellence in Ore Deposits

to be held at Wrest Point Convention Centre, Hobart, Australia

New directions, new developments

“A MUST FOR EXPLORERS AND RESEARCHERS”



This year's CODES Ore Deposit Models and Exploration Strategies Masters Short Course will commence with a three-day workshop that will cover processes involved in ore-formation in sedimentary basins and present exciting new ideas about the origin of several important styles of basin-hosted deposits.

The workshop is open to all, and will address

fundamental questions such as what causes local enrichment of metals in sedimentary basins, whether different metals get concentrated at different times during basin evolution, or is there a continuum of processes operating during basin evolution? Key deposits and mineralised areas will be described. How understanding processes can help develop practical exploration guidelines will be emphasised.

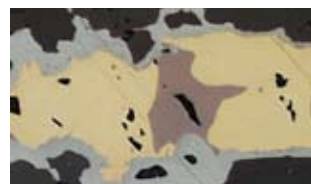
The following deposit types will be discussed:

- **U deposits (Australian and Canadian examples)**
- **Cu (the African Copperbelt)**
- **Zn-Pb (Australia, Iran and Pakistan)**
- **Au (Carlin and Sukhoi Log)**
- **Ni-Mo-PGE (carbonaceous shales from China and Canada).**

Speakers include: Kurt Kyser (Queens University), Ron Matthews (Cameco), Paul Polito (Anglo American Exploration-Australia), Murray Hitzman (Colorado School of Mines), David Rickard (University of Cardiff), Poul Emsbo (USGS), Ray Coveney (UMKC), David Selley, Ross Large, Stuart Bull, Rob Scott, Peter McGoldrick (CODES).

The meeting will commence with a general paper describing ore-forming processes in sedimentary basins, and conclude with an overview and synthesis. All presentations will be by invited speakers, and ample time will be set aside for discussion.

- thinking zinc?
- easily lead?
- sold on gold?
- dig uranium?
- need nickel?
- seeking silver?
- contemplating copper?



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Registration via internet only:
<http://www.cdesign.com.au/ores2006/registration>

registration
\$1500 (students \$1000)

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PROGRAM

Saturday 11 November	Registration opens at CODES 5:00 pm Icebreaker–Wine Tasting — CODES Conference Room and Foyer		
Sunday 12 November Morning	Peter McGoldrick	CODES	Opening remarks
	Kurt Kyser	Queens University	Ore forming processes in sedimentary basins
	Ron Matthews	Cameco	Uranium model types within the context of 2006 global exploration activity
	Paul Polito	AngloAmerican Exploration	Uranium deposits of the Alligator Rivers Uranium Field
	Kurt Kyser	Queens University	Athabasca Basin U deposits
	Paul Polito	AngloAmerican Exploration	Other Australian U deposits
	Murray Hitzman	Colorado School of Mines	<i>Uranium wrap and discussion</i>
Sunday 12 November Afternoon	Murray Hitzman	Colorado School of Mines	An overview of sediment-hosted stratiform copper deposits
	Peter McGoldrick	CODES	Styles of Zambian Copperbelt deposits
	David Selley	CODES	Development of the Lower Roan basin system: controls on Cu-Co mineralisation in the Zambian Copperbelt
	Ross Large	CODES	Lithogeochemistry, C-O isotopes and stratabound alteration haloes to stratiform copper mineralisation, Zambian Copperbelt
	Robert Scott	CODES	A hydrocarbon replacement model for the Zambian Copperbelt deposits
	Lyudmyla Koziiy	CODES	Numerical modelling of ore-forming fluid migration in the sediment-hosted stratiform copper deposit, Zambian Copperbelt
	Stuart Bull	CODES	Comparison of stratiform sediment-hosted Cu mineralised basins: the Zambian Copperbelt, the Polish Kupferschiefer and the Adelaide Fold Belt
Monday 13 November Morning	Poul Emsbo	US Geological Survey	<i>Copper wrap and discussion</i>
	Ross Large	CODES	Zn-Pb-Ag deposits in Proterozoic sedimentary basins, northern Australia
	David Cooke	CODES	Two types of sediment-hosted Zn-Pb deposits
	Peter McGoldrick	CODES	Microbes, siderophile oceans, sulfur-sources and sedex deposits or why was the end of the Palaeoproterozoic such a great time for sedimentary zinc deposits?
	Rod Maier	CODES	Bluebush Prospect - epigenetic Zn in a sedex setting
Monday 13 November Afternoon	Peter McGoldrick	CODES	<i>Red Dog review</i>
	Ken Chapple	Gold Aura Limited	The Mehdiabad deposit, Iran — a Tethyan giant
	Mick Skirka	Zinifex	Duddar deposit, Pakistan
	Poul Emsbo	US Geological Survey	Exhalation, phosphate, organisms, ocean chemistry and secular controls on Phanerozoic sedex deposits
	David Rickard	University of Cardiff	Origin of pyrite in sediments and sedimentary rocks
Tuesday 14 November Morning	Stuart Bull	CODES	<i>Zinc wrap and discussion</i>
	Ray Coveney	UMKC	Base metals in Late Paleozoic Black Shales of the Midcontinent United States
	David Rickard	University of Cardiff	Pyrite types associated with sedimentary ore deposits
	Ray Coveney	UMKC	Polymetallic [Ni-Mo--As (-PGE-Au)] sulfide beds in Canadian and Chinese Black Shales
Tuesday 14 November Afternoon	Poul Emsbo	USGS	Syngenetic Au (and other trace metal) accumulations and the origin of Carlin Au deposits, Nevada
	Ross Large	CODES	Multistage origin of the giant Sukhoi Log sediment-hosted Au deposit
	Peter McGoldrick	CODES	<i>Sedimentary Au and metalliferous shales wrap and discussion</i>
			Overview of the workshop led by David Cooke and Bruce Gemmell, including all presenters in open forum

