

GEOFLUIDS VI PROGRAM					
WEDNESDAY, 15.04.2009					
morning			Presenter		Title
	8:30	-	9:00	Prof. James McWha Vice-Chancellor and President of the University of Adelaide Kaurna Welcome, Opening address	
1	9:00	-	9:30	Keynote	Nick Oliver Very rapid subsurface hydrothermal ore deposition mechanisms and the origin of breccia-hosted iron-oxide copper-gold deposits
			Session 1		Mt Isa Mineralising Systems
2	9:30	-	9:45	Rowena Duckworth Trace Element Geochemistry and Mineralogy of the Mount Isa Copper ores, Queensland, Australia	
3	9:45	-	10:00	Ryan D Long The Geology and Mineralogy of the Paroo Fault and its role in the Mineralisation of the Deep Copper Orebodies, Mount Isa, Queensland	
4	10:00	-	10:15	Gustav S Nortje Fault-related mineralization in the Western Fold Belt, Mt Isa: Targeting copper using an integrated approach	
5	10:15	-	10:30	Kazuo Kawasaki Preliminary paleomagnetic results for the Century Zn-Pb-Ag deposit, Australia	
	10:30	-	11:15	<i>Tea / Coffee</i>	
			Session 2		Pb-Zn, Au and U
6	11:15	-	11:45	Keynote	Michel Cuney Physical and chemical characteristics and of the fluids involved in the genesis of unconformity related uranium deposit and the dynamic of their circulation
7	11:45	-	12:00	Peter Schaub The effects of deformation and permeability variation in controlling the formation of uranium deposits in the Alligator Rivers region, Northern Territory, Australia	
8	12:00	-	12:15	David T.A. Symons Starting to track the Upper Mississippi Valley zinc-lead MVT fluid flow event, WI, USA	
9	12:15	-	12:30	Katharina Pfaff Fluid Mixing Recorded by Mineral Assemblage and Mineral Chemistry in a Mississippi Valley-Type Pb-Zn-Ag Deposit in Wiesloch, SW Germany	
10	12:30	-	12:45	Galina Palyanova Genesis of gold and silver sulphides at Yuny and Ulakhan deposits (North-East of Russia)	
11	12:45	-	13:00	Martin Griessmann Gold Mineralisation in the Adelaide Fold Belt - Preliminary Results	
	13:00	-	14:00	<i>Lunch</i> POSTERS	
			Afternoon Session 3		Methods and Experiments
12	14:00	-	14:30	Keynote	Joel Brugger ? Towards Molecular-level Understanding of Geochemical Processes in Mineral Exploration
13	14:30	-	14:45	Pascal Grundler Tellurium speciation under hydrothermal conditions	
14	14:45	-	15:00	Stacey John Borg Zn speciation in acetate-rich hydrothermal solutions, an X-ray absorption spectroscopy study.	
15	15:00	-	15:15	Thorsten Geisler A preliminary in situ Raman spectroscopic study of the oxygen isotope exchange kinetics between H2O and (PO4)aq	
16	15:15	-	15:30	Martina Menneken An evaluation of the potential of using Raman spectroscopy to determine the carbon isotope composition of CO2 inclusions	
	15:30	-	17:00	<i>Tea / Coffee</i> POSTERS	
			Session 4		
17	17:00	-	17:15	Boriana Georgieva Kotzeva LA-ICP-MS analysis of single fluid inclusions in a quartz crystal. A methodological survey.	
18	17:15	-	17:30	Jean Cauzid Quantification of fluids hosted in opaque minerals using synchrotron radiation X-ray fluorescence	
19	17:30	-	17:45	Julien Bourdet Fluorescence and FT-IR signature of a water inhibition process in an oil reservoir	

				Poster Session Mineral Deposits	
1				Yong Hwan Ahn	Genetic Environment of the Geumeum Mo(-Cu) Mineralization in Korea
2				Antoni Camprubí	Fluid inclusion and S isotope study in the San Carlos epithermal vein of the Fresnillo district, Zacatecas, Mexico
3				Antoni Camprubí	Ore-forming fluids in the Lucy porphyry Cu-Mo deposit and its regional significance in the Cananea district (Sonora, Mexico)
4				Antoni Camprubí	Structure and stratigraphy of the Sabinas Basin and the role of sedimentary brines in the formation of MVT deposits in Northeastern Mexico
5				Antoni Camprubí	The Francisco I. Madero Zn-Cu-Pb-(Ag) deposit, Zacatecas, Mexico: mineral chemistry and fluid inclusion data
6				Gulcan Bozkaya	Fluid inclusion and stable isotope (O, H and S) evidence for the origin of the Balclair vein type barite-galena mineralisation in Çanakkale, Biga peninsula, NW Turkey
7				Martin Griessmann	The mineralising system of the Mt. Mulga barite-magnetite-Cu-Au mineralisation, Olary Domain, South Australia
8				Andreas Schmidt Mumm	Pressure, temperature and fluid composition variation of the mineralising system at the Kanmantoo Cu-Au deposit: combining fluid inclusion analysis with Ti-in-quartz thermometry
9				Seon-Gyu Choi	Evolution of the Mugeug Gold-Silver vein system in Korea
10				Andreas Schmidt Mumm	Application of Ti-in-quartz thermometry to Au and Cu-Au mineralising systems
11				Lintern G Fairbrother	Effect of the cyanide-producing bacterium <i>Chromobacterium violaceum</i> on ultraflat gold surfaces
12				Susanne Schmid	Significance of carbonaceous shales and vanadium geochemical haloes in the exploration for rock phosphate deposits in the southern Georgina Basin, central Australia.
				Poster Session Methods and Experiments	
13				Weihua Liu	A synchrotron X-ray absorption spectroscopic study of copper solubility and speciation in supercritical water
14				Isaac Berwouts	Reequilibrated fluid inclusions as proxy for PTX-conditions of deformation and recrystallisation in vein quartz
15				Miguel Angel Caja Rodriguez	Fluorescence quantification of oil fluid inclusions and oil shows: implications for oil migration (Armancías Fm, south-eastern Pyrenees, Spain)
16				Fang Xia	Mechanism of pseudomorphic mineral replacement reactions revealed by a combined textural and kinetic study
17				Fang Xia	Preservation of multiscale lamellar twinning texture and crystallographic orientation in the replacement of leucite by analcime
18				Fang Xia	Experimental synthesis of auriferous arsenian pyrite/marcasite by pseudomorphic replacement of pyrrhotite
19				Gujie Qian	Replacement of magnetite by pyrite under hydrothermal conditions
20				Jingzhou Zhao	Hydrothermal calaverite decomposition using the Orthogonal Experimental Design Method
21				Keyu Liu	Experimental study on the factors controlling secondary oil migration
22				Keyu Liu	Cautions in the interpretation of petroleum fluid inclusion data in petroleum system analysis: insight from spectroscopic analyses of natural and synthetic inclusions
23				Joel Brugger	Metal Speciation in Fluid Inclusions using Microbeam X-ray Absorption Spectroscopy
24				Galina Palyanova	Gold fineness and Au/Ag ratios of pyrite-containing ores as additional indicators of physico-chemical conditions of hydrothermal ore formation
25				Blake Alfred Tooth	Experimental observation of gold scavenging by bismuth melts coexisting with hydrothermal fluids
				Cocktail Function/Wine tasting SA Museum	

Thursday, 16.04.					
morning				Presenter	Title
COMPUTATIONAL MODELLING					
20	9:00	-	9:30	Keynote Chongbin Zhao	Critical Role of Geofluid Flow in Ore Forming Processes of Hydrothermal Systems: Theoretical Analysis and Computational Simulation
Session 1					
21	9:30	-	9:45	Klaus Gessner	3D visualization and analysis of fractured rock using digital photogrammetry
22	9:45	-	10:00	Brent McInnes	Numerical modelling of magmatic-hydrothermal systems constrained by U-Th-Pb-He time-temperature histories
23	10:00	-	10:15	Jianwen Yang	Three-dimensional numerical modeling of salinity variations in driving basin-scale fluid flow related to the formation of the Mount Isa SEDEX deposits, northern Australia
24	10:15	-	10:30	Guoxiang Chi	Geochemical evidence and hydrodynamic modeling of two fluid systems involved in sandstone-hosted uranium mineralization in the northeast of the Ordos basin, China
	10:30	-	11:15		<i>Tea / Coffee</i>
Session 2					
25	11:15	-	11:30	Michael Kühn	Reactive transport models of the Mount Isa Copper mineralisation show that fluid mixing is only feasible in free convection
26	11:30	-	11:45	Liangming Liu	Computational Modeling on Coupled MTH Processes for Forming Skarn Cu Deposits and its Significance for Deep Ore Exploration: Examples from Tongling-Anqing District, China
27	11:45	-	12:00	Edgar Santoyo	A new improved mathematical method to estimate stabilized formation temperatures using thermal recovery data of geothermal boreholes
28	12:00	-	12:15	Thomas Poulet	Assessing the Perth Basin geothermal opportunity: Preliminary results from simulations of heat transfer and fluid flow
29	12:15	-	12:30	Peiming Wang	Modeling Phase Equilibria and Thermophysical Properties in Electrolyte Systems Using a Speciation-Based Model
30	12:30	-	12:45	Jianguo Wang	Numerical simulation for geofluid focusing and penetration due to hydraulic fracture
31	12:45	-	13:00	Yanhua Zhang	Numerical simulation of extensional fault reactivation and fluid flow: generic models related to the Timor Sea
	13:00	-	14:00		LUNCH
POSTERS					
Afternoon Session 3					
Deep fluids and magmatic fluid system					
32	14:00	-	14:30	keynote John Walshe	Origins of the chemical potential of major mineral systems: Links to Earth degassing
33	14:30	-	14:45	Kevin Faure	Stable isotope and fluid inclusion data of the Rooiberg tin field deposits, South Africa
34	14:45	-	15:00	Berit Lehrmann	The association between skarn mineralisation and granite bodies in the Chillagoe region, North Queensland, Australia
35	15:00	-	15:15	Adam Tedesco	Late-stage orogenic model for Cu-Au mineralisation at Kanmantoo mine: new insights from titanium in quartz geothermometry, fluid inclusions and geochemical modelling.
36	15:15	-	15:30	Hashem Bagheri	Rare earth and trace element mobility by CO ₂ bearing fluids in five-element deposits of the Anarak area, Central Iran
37	15:30	-	15:45	Robert Hough	Relating quantitative microstructure in ore minerals to fluid chemistry,
	15:45	-	17:15		<i>Tea / Coffee</i>
POSTERS					
Session 4					
CO₂ Sequestration					
38	17:15	-	17:30	Allison Hortle	The impact of formation water flow on the CO ₂ storage capacity in the Offshore Gippsland Basin, Australia.
39	17:30	-	17:45	Fenjin Sun	The Origin and Formation of CO ₂ gas pools in Songliao Basin, China
40	17:45	-	18:00	Benjamin J Rostron	8+ years of characterization, monitoring, and risk assessment at the IEA GHG Weyburn-Midale CO ₂ Monitoring and Storage Project, Saskatchewan, Canada.

				Poster Session Hydrocarbon Systems	
26				Laurent Langhi	Fluid flow behaviour in reactivated hydrocarbon traps: assessing fluid circulation along natural complex fault systems using numerical fluid flow simulation
27				Miguel A Caja Rodriguez	Carbonate precipitation in an ancient oil shale mine (SE Pyrenees): evolution of fluid chemistry and its relationship with oil expulsion
28				Miguel A Caja Rodriguez	Linking organic geochemistry, oil shows, oil fluid inclusions and tectonic structure to unravel oil migration history (SE Pyrenees, Spain)
29				Ping Hongwei	Using Systematic Fluid Inclusion Measurements to Trace Hydrocarbon Migration Pathway in the Unconformity Reservoirs of Caoqiao Oilfield of Dongying Depression, Bohai Bay Basin
30				Cheng Zhang	Petroleum systems of continental margin basins in the northern South China Sea
31				Jingzhou Zhao	Dynamic Petroleum Migration-Accumulation Systems : Concept, Division and Application in West-China Basins
32				Tao Jiang / Jianye Ren	Deepwater turbidites and their implications for hydrocarbon exploration in Qiongdongnan Basin, northern South China Sea
33				Chen Dongxia	Experimental Investigation of Secondary Oil Migration along Subtle Pathways: A Mechanism for hydrocarbon accumulation in Lenticular Basinal Turbidite Reservoirs
34				Chunquan Li	Coupling Relationship between Hydrocarbon Charging Events and Palaeopressure Cycles in the Es3 Member of the Shahejie Formation, Minfeng Sag, Bohai Bay Basin, East China
35				Chuanbo Shen	Characteristics of fluid inclusions in the southern Dabashan fold-thrust belt and their implications for petroleum exploration potential, central China
36				Feng Yong	Fluid Inclusion Evidence for a Coupling Response between Hydrocarbon Charging and Structural Movements in Yitong Basin, Northeast China
37				Honghan Chen	Quantitative evaluation of transporting efficiencies for hydrocarbon migration along different unconformities in a Cainozoic lacustrine basin: examples from the Dongying Depression, Bohai Bay Basin, East China
38				Irina N. Plotnikova	Investigation of the up to date process of the replenishment of hydrocarbon reserves
39				Keyu Liu	Evidence of hot fluid activities and condensate accumulation in the PY30-1 Structure on the Panyu Low Uplift, Pearl River Mouth Basin, South China Sea
40				Sumei Li	Petroleum source and fluid charge models in the Tazhong Uplift, Tarim Basin: New insights from geochemical and fluid inclusion data
41				Sumei Li	Origin of crude oils with unusually high dibenzothiophene concentrations in the Tazhong Uplift, Tarim Basin
42				Inchang Ryu	Stratigraphy and hydrocarbon potential of the southern Tye basin, Oregon Coast Range, USA
				Jianhui Zeng	Origin and migration of palaeo-fluids in the Foreland Thrust Belt of the Daba Mountains, Sichuan, China
				Poster Session Computational Modelling	
43				Jianwen Yang	Paleo-hydrostratigraphy and Fluid Flow Modeling for the Thelon Basin, Nunavut, Canada
44				Jianwen Yang	Numerical Simulation of Tectonic Deformation-Driven Fluid Flow: Implications for Ore Genesis in the Dachang District, Guangxi, China
45				Yanhua Zhang	Numerical modelling of structural controls on fluid flow localization and its implication on mineralization at the Century deposit
46				Chongbin Zhao	Advances in Computational Geoscience: Numerical Methods and Algorithms for Simulating Geofluid Flow Related Problems
47				Chongbin Zhao	Advances in Convective and Advective Heat Transfer in Geological Systems
48				Fadi Henri Nader	From field study to numerical modeling of hydrothermal dolomitization in Early Cretaceous platform carbonates (Cantabrian mountains, northern Spain)
49				Fadi Henri Nader	Reactive geochemical transport modeling of hydrothermal dolomite fronts: the case of Marjaba dolomite front (Jurassic, Lebanon)
50				Guoxiang Chi	Potential hydrocarbon migration paths predicted from numerical modeling of basinal fluid flow in the Paleozoic Anticosti basin, eastern Canada
51				Yongwang Zhang	Experimental study of interaction between fluid and alkaline feldspar
				Conference Dinner (extra booking required)	

Friday, 17.04.09					
morning				Presenter	Title
Hydrocarbon Fluids					
41	9:00	-	9:30	Keynote	Hanneke Verweij Overpressure generation and preservation in salt-dominated basins of the Netherlands offshore area
Session 1					
42	9:30	-	9:45	Stephen Sestak	Pyrolysis of Jamison Sandstone Solid Bitumen from the Mesoproterozoic Roper Superbasin
43	9:45	-	10:00	Herbert Volk	Tracking petroleum systems in the Perth Basin by integrating microscopic, molecular and isotopic information of petroleum fluid inclusions
44	10:00	-	10:15	Xia Luo	The Origin of Deep layer Gases in the Jiyang Depression of Bohai Bay Basin, China
45	10:15	-	10:30	Xinong Xie	Abnormally pressured environments and their control on hydrocarbon migration: case study on the Sanzhao depression of the Songliao basin, China
	10:30	-	11:00		Tea / Coffee
Session 2					
COMPUTATIONAL MODELLING					
46	11:00	-	11:15	Fiona Whitaker	Pervasive subsurface dolomitization of the Devonian Nisku Formation, Canada - new insights from Reaction Transport Modeling
47	11:15	-	11:30	Kosei Yamaguchi	Box modeling to estimate the degree of water-rock interaction during the Paleoproterozoic Lateritization of the Hekpoort Basalt, South Africa
48	11:30	-	11:45	Fadi Henri Nader	Reactive geochemical transport modeling of hydrothermal dolomite fronts: the case of Marjaba dolomite front (Jurassic, Lebanon)
49	11:45	-	12:00	Ge Lin	Numerical Simulation of the Controlling Role of Geofluids in the Thinning Process of the North China Craton
Crustal Fluids					
50	12:00	-	12:15	Bruce E Hobbs	Emergence in Crustal Plumbing Systems
51	12:15	-	12:30	Stephen Grasby	Controls on the distribution and geochemistry of thermal springs in the McKenzie Mountains, Northwest Territories, Canada
52	12:30	-	12:45	Vinyet Baques Almirall	Relationship between fluid flow and tectonic brecciation in the Neogene extensional Vallès-Penedès basin (Catalan Ranges, NE Iberian)
53	12:45	-	13:00	Rosemarie Mohais	On the effect of permeable magmatic foam on heat transfer in channelized lava flow
	13:00	-	14:30		Lunch
Afternoon Session 3					
Crustal Fluids					
54	14:30	-	14:45	Tom Raimondo	Sources, thermal conditions and mechanisms of fluid ingress during regional rehydration of Alice Springs Orogeny intracratonic shear systems
55	14:45	-	15:00	Irene Cantarero	Pedogenetic processes coeval with Neogene faults evolution in the Barcelona's Plain, NE Spain
56	15:00	-	15:15	Florian Fousseis	The 'granular fluid pump' - a new model for fluid transfer through the middle crust based on creep cavitation
57	15:15	-	15:30	Sebastian Staude	Hydrothermal vein formation by extension-driven dewatering of the middle crust: An example from SW Germany
58	15:30	-	15:45	Susanne Schmid	Impact of sill emplacement on sandstones in the Northern Atlantic region
	15:45	-	16:30		Tea / Coffee
Session 4					
Low T Fluids					
59	16:30	-	16:45	Isaac Berwouts	Quartz-vein system development during progressive deformation in low-grade siliciclastic sediments. Evidence from the Palaeozoic of the Armorican Massif (Brittany, France)
60	16:45	-	17:00	Maria Cioppa	Magnetizations in the Ashern Formation and Interlake Group, Williston Basin: fluid infiltration or subsurface fluid flow?
61	17:00	-	17:15	Alison Ord	Chemical and Biological Transport in Deforming Porous Media
62	17:15	-	17:30	Liesbeth Breesch	Fluid flow reconstruction in a complex paleocave system reservoir in Wordiekammen, Central Spitsbergen
63	17:30	-	17:45	Ihsan Al-aasm	Vein calcite in Cretaceous carbonate reservoirs of Abu Dhabi: record of fluid flow

					Poster Session CO2	
52				Ulrike Schacht	CO2CRC Otway Project Monitoring Program – Soil Gas Survey 2008	
					Low Temperatures Fluids	
53				Liesbeth Breesch	Diagenesis and fluid system evolution in the Northern Oman Mountains, United Arab Emirates	
54				Liesbeth Breesch	Genetic and fluid flow model of a large-scale celestite deposit in Karstryggen, Central East Greenland	
55				Isaac Berwouts	Evidence of pressure fluctuations recorded in crack-seal veins in low-grade metamorphic siliciclastic metasediments, Late Palaeozoic Rheohercynian fold-and-thrust belt (Germany)	
56				Miguel A Caja Rodriguez	Paleothermal constraints from diagenetic minerals recording high temperature conditions in a rift basin (Maestrat Basin, Iberian Range)	
57				Miguel A Caja Rodriguez	Fluid flow record from fracture-fill calcite and its relationship to oil shows (Upper Jurassic limestones, Maestrat Basin, Iberian Range)	
58				Sunil Varma	Estimation of submarine groundwater discharge into Geographe Bay, Western Australia	
59				Ulrike Schacht	PORE WATER COMPOSITION OF VOLCANOGENIC SEDIMENTS FROM ACROSS THE CENTRAL AMERICAN SUBDUCTION ZONE	
60				Hairuo Qing	Petrography and geochemistry of the Cambrian dolomite reservoirs in Tarim Basin, NW China: a case study based on the deep cores sampled from 7200-8500 m	
61				KL Carriere / H Machel	Polyphase speleogenesis in Lick Creek Cave, Little Belt Mountains, Montana, USA	
					Crustal Fluids	
62				Miguel A Caja Rodriguez	Different degree of albitization in the syn-rift Lower Cretaceous sandstones, Maestrat Basin, Iberian Range: burial temperature or composition/provenance influence?	
63				Benjamin J Rostron	Unusual Ca-rich formation-waters from Devonian-aged aquifers in western Canada: implications for seawater chemistry.	
64				Irina N. Plotnikova	Reduced fluids in the crystalline basement and the sedimentary basin (on an example of Romashkino and Verkhne-Chonskoye oil fields)	
65				Irina N. Plotnikova	Groundwater of the crystalline basement in the eastern part of the east-European platform	
66				Susanne Schmid	Impact of sill emplacement on sandstones in the Northern Atlantic region	
67				Xue Bin Du	Hydrogeochemistry of formation water in relation to overpressures and fluid flow in the Qikou depression of the Bohaiwan basin, China	
68				Yanchao Zhao	Controls of paleofluid movement in high quality reservoirs and prolific zones within the tight sandstones of H2 and H3 members of the Lower Permian in the Daniudi gasfield, Ordos basin, China	
69				John George McLellan	<i>Convection stability in the Taupo Volcanic Zone, New Zealand</i>	
70				Rudy Swennen	<i>Evidence of repeated hot fluid pulses along the Ranero fault system (Cantabrian Mountains, North Spain)</i>	