

**Day One: MONDAY 19 SEPTEMBER 2005****Poster Session 1:**

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| 10.10am | <b>Carl Brauhart</b><br>Sipa Resources Limited, WA<br>(A Eggo, L Bettenay)                              | Centre Forrest, Ularring Rock project, WA wheatbelt – a greenfields Cu-Au discovery by conventional follow-up of open file geochemical data |
|         | <b>Patrice de Caritat</b><br>CRC LEME, ACT<br>(M Lech, S Jaireth, J Pyke)                               | Low-density geochemical survey of the Riverina region, southeastern Australia: results and applications                                     |
|         | <b>Steven Smith</b><br>US Geological Survey, USA<br>(D Smith)   | Development and utilization of a national geochemical database  |
|         | <b>Xeuqin Wang</b><br>Institute of Geophysical & Geochemical<br>Exploration, China<br>(Z Cheng, S Zhao) | Variations and dispersion of elements in desert regolith, northwestern China  |

**Poster Session 2:**

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| 3.10pm | <b>Rob Bowell</b><br>SRK Consulting, Wales<br>(J V Parshley)   | Geochemical baseline in northern Nevada: determining background conditions                 |
|        | <b>L Graham Closs</b><br>Colorado School of Mines, USA<br>(R K Glanzman)                                 | Real time geochemical answers in the field   |
|        | <b>Mohamed Darwish</b><br>Delft University of Technology,<br>The Netherlands<br>(V van Beek, H Bruining) | <i>In situ</i> arsenic removal using redox condition alteration: experiments and modelling |
|        | <b>David Gray</b><br>CSIRO Exploration & Mining, CRC LEME, WA<br>(M Pirlo, R George, S Rogers)           | Acid drainage in the Western Australian wheatbelt  |
|        | <b>Gwendy Hall</b><br>Geological Survey of Canada<br>(J Vaive, M Parsons)                                | Preservation of As III and As V in surface and ground waters                               |
|        | <b>Jorge Loredó</b><br>Universidad de Oviedo, Spain<br>(A Ordóñez, R Álvarez)                            | Arsenic mobilization from an abandoned mine site in León province (northern Spain)         |
|        | <b>Jorge Loredó</b><br>Universidad de Oviedo, Spain<br>(J Soto, A Ordóñez, R Álvarez)                    | Gaseous geochemical exploration at the site of abandoned mercury mines in northern Spain   |
|        | <b>Alan W Mann</b><br>MMI Technology, WA<br>(R L Andrew)   | Nutrient characteristics of soils from the Margaret River wine district                    |
|        | <b>Makoto Okamoto</b><br>Kyushu International University, Japan<br>(T Kobayashi, T Ohishi, E Sakamoto)   | Physical properties of sediments deposited from the waters of a closed coal mine           |

**Day Two: TUESDAY 20 SEPTEMBER****Poster Session 3:**

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| 10.10am | <b>Ekaterina Abushkevich</b><br>St Petersburg State University, Russia<br>(E Tabuns)          | A simple model for rare metal prospecting  |
|         | <b>Rob Bowell</b><br>SRK Consulting, Wales<br>(C Hoag)  | Mammoth St Antony deposit: an example of complex polymetallic epithermal mineralization in Arizona   |
|         | <b>Verónica Herrera</b><br>Universidad Católica del Norte, Chile<br>(J Cembrano)              | Brittle deformation and mechanisms of mineral precipitation: a multidisciplinary study of synkinematic veins hosted in an extensional strike-slip duplex from the Atacama Fault System |
|         | <b>Tansy O'Connor-Parsons</b><br>Acadia University, Canada<br>(C Stanley)                     | Downhole trace and major element chemostratigraphic patterns relating to igneous fractionation processes in the Golden Mile Dolerite, Western Australia                                |
|         | <b>Paul Polito</b><br>Anglo American Exploration Australia, WA<br>(K Kyser, D Lawie, C Oates) | Application of S isotopes to discriminate between barren and mineralised massive sulphide deposits near Flin Flon, Manitoba, Canada  |

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| <b>Wang Mingqi</b><br>China University of Geosciences, Beijing, PR<br>China<br>(L Hongtao) | Lithogeochemical exploration for gold in Abu Sari, northern Sudan   |
| <b>Steven Whitehead</b><br>University of Western Australia<br>(K Prendergast)              | The characterisation of St Ives hydrothermal gold deposits and alteration footprints using PIMA spectral analysis |

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**Poster Session 4:**

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| 3.10pm | <b>Rob Bowell</b><br>SRK Consulting, Wales, UK<br>(C Davies, C Arthur, M Parker, C Ford, J Arthur)                  | Geochemistry of the Sasare-Eagle Eye project and the discovery of iron oxide copper gold deposits in Zambia  |
|        | <b>Matthias Cornelius</b><br>CSIRO Exploration & Mining, WA<br>(C G Porto, C E Dunn, C R.M Butt, C Oates, R Coelho) | Soil and biogeochemical signatures of the Aripuana base metal deposit – Mato Grosso, Brazil  |
|        | <b>Patrice de Caritat</b><br>CRC LEME, ACT<br>(D Kirste)  | Using groundwater to vector towards mineralisation under cover: the Curnamona Province   |
|        | <b>Steven M Hill</b><br>CRC LEME University of Adelaide, SA   | Wattles, gum trees and kangaroos: the use of some Australian landscape icons for regional-scale biogeochemical exploration in semi arid southeastern Australia |
|        | <b>O M Kovalevskaya</b><br>Siberian Branch of Russian Academy of Sciences, Russia<br>(A L Kovalevski)               | Nonbarrier biogeochemical exploration for silver   |
|        | <b>Ray Lett</b><br>British Columbia Ministry of Energy & Mines, Canada<br>(PM D Bradshaw, L Doyle)                  | Towards an atlas of geochemical exploration models for mineral deposits in Canadian Cordillera   |
|        | <b>Kenneth G McQueen</b><br>CRC LEME, Australian National University, Canberra<br>(K Khilder, K M Scott)            | Geochemical exploration models for regolith-dominated terrain in western New South Wales   |
|        | <b>David M K Murphy</b><br>University of Western Australia<br>(CR Stanley, S G Hagemann)                            | Lithogeochemical constraints on the host rock, hydrothermal alteration and weathering of the Groundrush gold deposit   |

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**Day Three: THURSDAY 21 SEPTEMBER**
**Poster Session 5**

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|---------|---|--|
| 10.05am | <b>Robert Dart</b><br>The University of Adelaide, SA<br>(K M Barovich, D Chittleborough)            | Distribution and origin of regolith carbonates in southern Australia   |
|         | <b>Donna Falconer</b><br>University of Otago, New Zealand<br>(C Shaw, L Lawrance, D Craw)           | Morphology and composition of palaeochannel gold, Sunrise Dam gold mine, Western Australia                         |
|         | <b>Robert M Hough</b><br>CRC LEME, CSIRO Exploration & Mining, WA<br>(R R Anand, M Norman, C Phang) | Mineral hosts for gold and pathfinder elements at the Mount Gibson and Lancefield gold deposits, Western Australia |
|         | <b>Anna Petts</b><br>CRC LEME, University of Adelaide, SA<br>(S M Hill)                             | The 'ABC' of regolith: attributes, biota and their (landscape) context   |

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**Poster Session 6:**

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| 3.10pm | <b>Mark Arundell</b><br>Arundell Geoscience, WA<br>(S Gatehouse) | Discriminating coarse gold: fine fraction stream sediment sampling in the Sofala area, central New South Wales, Australia |
|        | <b>Mark Arundell</b><br>Arundell Geoscience, WA<br>(S Gatehouse) | Interactive geochemical data interpretation   |
|        | <b>Brenda Caughlin</b><br>AOS Chemex, Canada                     | On-line access for real-time audits of laboratory processes   |

**Simon Gatehouse**  
University of NSW and Hellman and Schofield  
Pty Ltd, NSW

Data determined zonation around mineralisation

**Kurt Kyser**  
Queen's University, Canada  
(M Silva, D Beauchemin, C Oates)

Elemental distributions in minerals and soils by microwave-assisted  
continuous leach on-line with inductively coupled plasma time of flight  
mass spectrometry

**Clifford R Stanley**  
Acadia University, Canada  
(R P Noble)

Optimizing geochemical threshold selection while evaluating exploration  
techniques using a minimum hypergeometric probability method

**Clifford R Stanley**  
Acadia University, Canada  
(B M Smee)

Quantifying the magnitude of sampling, preparation and analytical errors  
in drilling projects for gold: myths, models and strategies for mitigating  
the 'nugget effect'

**Schalk W Strauss**  
Council for Geosciences, South Africa  
(J H Elsenbroek, R C van Rooyen)

A stepwise multi-disciplinary regional geochemical soil mapping and  
exploration strategy for under saturated complexes

## Day Four: FRIDAY 22 SEPTEMBER

### Poster Session 7:

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|---------|---|--|
| 10.05am | <b>David Cohen</b><br>University of NSW<br>(R Siegele)  | Differential effects of selective geochemical extractions within<br>plumbojarosite   |
|         | <b>Mark Fedikow</b><br>Mount Morgan Resources, Canada   | The role of soil geochemistry in successfully prioritizing deeply buried<br>Cu-Mo porphyry geophysical drill targets, Butte district, Montana USA                |
|         | <b>Stewart Hamilton</b><br>Ontario Geological Survey, Canada  | Electrochemical transport and reduced chimneys over oxidizable<br>geological features – understanding the physics  |
|         | <b>Stewart Hamilton</b><br>Ontario Geological Survey, Canada  | "Forest rings" and their implications for oil, gas and mineral exploration<br>using geochemistry   |
|         | <b>Eric Hoffman</b><br>Activation Laboratories Ltd, Canada<br>(D Sutherland, G Southam)   | Soil gas hydrocarbons (SGH) – penetrating predictive geochemistry<br>using a forensic investigation with organic mineral signatures for mineral<br>exploration   |
|         | <b>Vladimir Makarov</b><br>Permafrost Institute, Russia   | Geochemical exploration of mineral deposits under glaciers   |
|         | <b>Beth McClenaghan</b><br>Geological Survey of Canada<br>(S M Hamilton, G E M Hall)  | Selective leach geochemistry of soils overlying kimberlites, northeastern<br>Ontario, Canada   |
|         | <b>Rebecca Schaefer</b><br>Environmental Science Program, Acadia<br>University, Canada<br>(C R Stanley, R C Evans and C R Bell) | Gold and arsenic uptake and sequestration by <i>Eucalyptus</i><br><i>salmonophloia</i> : two possible phytotransportation mechanisms of metals<br>to the surface |