

## 13th Quadrennial IAGOD Symposium, Adelaide 2010 Scientific Programme

### Tuesday 6 April 2010

2.00pm - 4.30pm Registration Opens in the Adelaide Convention Centre (Foyer Area Hall G)

2.00pm - 5.00pm Exhibition Bump In (Hall G)

5.00pm - 7.00pm Welcome Reception, SA Museum, North Terrace, Adelaide

### Wednesday 7 April 2010

8.30am Symposium Opening Ceremony (Hall C)

9.00am Exhibition Opens (Hall G)

9.10am Concurrent Sessions Commence \*PLEASE NOTE THE VARYING START TIMES\*

| Hall C - Stream 1                       |   | Meeting Room 10 - Stream 2   |  | Meeting Room 1&2 - Stream 3                                  |   | Meeting Room 8&9 - Stream 4             |   |
|---|---|--|--|--|---|---|---|
| <b>Session: Giant Ore Deposits</b>      |   | <b>Session: New geophysical &amp; geochemical exploration techniques</b> |  | <b>Session: Mineralogy from exploration to beneficiation</b> |   | <b>Session: Uranium Resources</b>       |   |
| 9.10am<br><b>Keynote</b>                | <b>Ehrig</b> 'OLYMPIC DAM: 35 YEARS SINCE DISCOVERY, 2.3 MILLION METRES OF DIAMOND CORE, AND NEW (?) IDEAS'   | 9.10am   | <b>Gorczyk</b> 'LITHOSPHERIC LATERAL HETEROGENEITY – DELAMINATION INSTABILITIES AND MINERALISATION'        | 9.40am<br><b>Keynote</b>                                     | <b>Smart</b> 'THE CRITICAL ROLE OF SURFACES IN MINERALS PROCESSING'   | 10.00am<br><b>Keynote</b>               | <b>Kyser</b> 'WHY DON'T LARGE URANIUM DEPOSITS ALWAYS FORM?'  |
| 9.40am                                  | <b>Baker</b> 'THE 1.5 TO 1.6 Ga IRON OXIDE-COPPER-GOLD-URANIUM EVENT: WHAT CONTROLS GIANTS VERSUS MINNOWS'    | 9.30am   | <b>Hutton</b> 'LINKING DEEP SEISMIC REFLECTION PROFILING TO KNOWN AND POTENTIAL ECONOMIC MINERAL DEPOSITS' | 10.10am  | <b>Brunner</b> 'TRANSPORT OF METALS IN HYDROTHERMAL FLUIDS – FROM QUANTUM TO ORE DEPOSITS'  | 10.30am                                 | <b>Annesley</b> 'FORMATION OF THE ATHABASCA URANIUM DEPOSITS: THE IMPORTANCE OF STRUCTURAL CONTROLS AND S-TYPE GRANITE EMPLACEMENT' |
| 10.00am                                 | <b>Selley</b> 'SALT STEW: A RECIPE FOR GIANT SEDIMENT-HOSTED STRATIFORM COPPER ORES'                          | 9.50am   | <b>Belousova</b> 'TERRANECHRON AS EXPLORATION TOOL FOR REGIONAL TERRANE-SCALE EVALUATIONS'                 | 10.30am  | <b>Ciobanu</b> 'NEW FRONTIERS IN THE APPLICATION OF ELECTRON MICROSCOPY TO ORE MINERALS'  | 10.50am to 11.10am Morning Tea (Hall G) |   |
| 10.20am                                 | <b>Oliver</b> 'SYNGENETIC-REMOBILIZED VERSUS EPIGENETIC: WHY WON'T THE MOUNT ISA COPPER CONTROVERSY GO AWAY?' | 10.10am  | <b>Chang</b> 'NEW SPECTRAL AND GEOCHEMICAL TOOLS FOR EXPLORING LITHOCAPS'                                  | 10.50am to 11.10am Morning Tea (Hall G)                      |   | 11.10am                                 | <b>Jiricka</b> 'THE CENTENIAL DEPOSIT – AN ATYPICAL UNCONFORMITY-ASSOCIATED URANIUM DEPOSIT – AN UPDATE'                            |
| 10.40am to 11.00am Morning Tea (Hall G) |   | 10.30am to 10.50am Morning Tea (Hall G)                                  |  | 11.10am  | <b>Dill</b> 'MINERALOGY AND MORPHOLOGY OF FLUORITE: THE ORIGIN OF THE GRANITE- AND UNCONFORMITY-RELATED FLUORINE DEPOSITS OF THE NABBURG-WÖLSENDORF DISTRICT, SW GERMANY: WITH SPECIAL REFERENCE TO FETID FLUORITE' | 11.30am                                 | <b>Skirrow</b> 'FROM URANIUM PROVINCE, SOUTH AUSTRALIA: SYSTEMS ANALYSIS AND POTENTIAL FOR MAJOR BASIN-HOSTED URANIUM DEPOSITS'     |

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| 11.00am                          | <b>Kamenetsky</b> 'UDACHNAYA-EAST KIMBERLITE: A MAJOR RESOURCE OF DIAMONDS AND KNOWLEDGE'  | 11.00am                          | <b>Mauger</b> 'HYLOGGING ALTERATION SYSTEMS OF THE NORTHERN YORKE PENINSULA, SOUTH AUSTRALIA.'  | 11.30am                               | <b>Grundler</b> 'INVESTIGATION OF THE SPECIATION OF TELLURIUM IN HYDROTHERMAL FLUIDS AND ITS RELEVANCE TO ORE FORMING PROCESSES'   | 11.50am                          | <b>Johnston</b> 'THE FOUR MILE URANIUM PROJECT - AUSTRALIA'S NEWEST URANIUM MINE'  |
| 11.20am                          | <b>Laznicka</b> 'DISCOVERY OF FUTURE ORE GIANTS: LOOKING DEEPER'   | 11.20am                          | <b>Chopping</b> 'USING GEOLOGICALLY-CONSTRAINED POTENTIAL FIELD INVERSIONS TO MAP ALTERATION: AN EXAMPLE FROM THE GAWLER CRATON, SOUTH AUSTRALIA' | 11.50am                               | <b>Arcilla</b> 'GEOCHEMICAL AND MINERALOGICAL CHARACTERISTICS OF SOME PHILIPPINE NICKEL (LATERITE AND SAPROLITE) DEPOSITS: IMPLICATIONS FOR EXPLORATION AND   BENEFICIATION' | 12.10pm                          | <b>Dill</b> 'CHRONOLOGY, MINERALOGY AND GEOMORPHOLOGY OF SUPERGENE URANIUM MINERALIZATION IN GRANITIC TERRAINS FROM THE CENTRAL EUROPEAN VARISCIDES' |
| 11.40am                          | <b>Barnes</b> 'GIANT NICKEL SULFIDE DEPOSITS IN KOMATIITIC DUNITES: THE MOUNT KEITH AND YAKABINDIE DEPOSITS, YILGARN CRATON, WA'   | 11.40am                          | <b>Fabris</b> 'CAN PARTIAL LEACH SOIL SURVEYS BE USED TO EXPLORE FOR GOLD THROUGH DUNE FIELDS?'   | 12.10pm                               | <b>Pring</b> 'THE ROLE OF MINERAL REPLACEMENT REACTIONS IN ORE DEPOSIT FORMATION: THE PHYSICAL CHEMISTRY OF ORE FORMATION.'  | 12.30pm to 1.40pm Lunch (Hall G) |  |
| 12.00pm                          | <b>Large</b> 'GIANT SEDIMENT-HOSTED GOLD-ARSENIC DEPOSITS: EVIDENCE FROM THE VICTORIAN, CARLIN AND LENA GOLDFIELDS FOR A TWO-STAGE CONCENTRATION PROCESS OF ORE GENESIS' | 12.00pm                          | <b>Wilson</b> 'GROUNDWATER AS AN EXPLORATION TOOL IN REGOLITH-DOMINATED TERRAINS, SOUTH AUSTRALIA'  | 12.30pm to 1.50pm Lunch (Hall G)      |  |                                  |  |
| 12.20pm                          | <b>Foster</b> 'THE PLATREEF A GIANT AMONGST GIANTS: A PERSONAL PERSPECTIVE'  | 12.20pm                          | <b>Cleverley</b> 'USING 3D GEOCHEMISTRY TO MAP FLOW PATHS AND ALTERATION IN THE RANGER U DEPOSIT, NT'   |                                       |  | 1.40pm                           | <b>Lightfoot</b> 'ADVANCES IN NI-CU-PGE SULPHIDE DEPOSIT MODELS: IMPLICATIONS FOR THE ORIGIN OF THE VOISEY'S BAY DEPOSITS, CANADA'                   |
| 12.40pm to 1.30pm Lunch (Hall G) |  | 12.40pm to 1.50pm Lunch (Hall G) |   | 1.50pm                                | <b>Meffre</b> 'TECTONIC EVOLUTION OF SE ASIA: PROGRESS AND PROBLEMS'   | 2.10pm                           | <b>Godel</b> 'THE NEBOBABEL NI-CU-PGE SULPHIDE DEPOSIT (WEST MUSGRAVE, AUSTRALIA): CONSTRAINTS ON PARENTAL MAGMAS AND PROCESSES'                     |
|                                  |  |                                  |   | <b>Session: Southeast Asia</b>        |  |                                  |  |
|                                  |  |                                  |   | <b>Session: Magmatic Ore Deposits</b> |  |                                  |  |

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| 1.30pm<br><b>Keynote</b>                       | <b>Cuney</b> 'GIANT URANIUM DEPOSITS'   | <b>Session: North, Central &amp; South America</b> |   | 2.20pm   | <b>Sanematsu</b> '40AR/39AR AGES OF SN-BEARING GRANITIC ROCKS FROM THE TRUONG SON BELT IN CENTRAL LAOS'   | 2.30pm   | <b>Peterson</b> 'THE NOKOMIS CU-NI-PGE DEPOSIT, DULUTH COMPLEX: A SULFIDE-BEARING, CRYSTALLADEN MAGMATIC SLURRY'  |
| 2.00pm   | <b>Scherrenberg</b> 'KINEMATIC STRUCTURAL FRAMEWORK FOR THE BINGHAM CANYON CU-AU-MO PORPHYRY DEPOSIT, UTAH, USA'  | 1.50pm<br><b>Keynote</b>                           | <b>Goldfarb</b> 'SOCIETY OF ECONOMIC GEOLOGISTS 2010 INTERNATIONAL EXCHANGE LECTURE - ACCRETIONARY OROGENESIS AND TIMING OF OROGENIC GOLD FORMATION: IMPLICATIONS FROM THE NORTH AMERICAN CORDILLERA'             | 2.40pm   | <b>Reynolds</b> 'SIGNIFICANT ZN-PB DISTRICTS IN SOUTHEAST ASIA'   | 2.50pm   | <b>Barnes</b> 'TENOR VARIATIONS WITHIN THE SANTA RITA Ni-Cu DEPOSIT, FAZENDAMIRABELA INTRUSION, BAHIA, BRAZIL'  |
| 2.20pm   | <b>Williams</b> 'GEOLOGY OF THE KUCING LIAR SEDIMENT-HOSTED CU-AU DEPOSIT AND ITS PLACE IN THE EVOLUTION OF THE GRASBERG PORPHYRY CENTRE, WEST PAPUA PROVINCE, INDONESIA' | 2.20pm   | <b>Hinchey</b> 'NEOPROTEROZOIC SEDIMENTARY HOSTED STRATIFORM COPPER MINERALIZATION – BONAVISTA PENINSULA, NEWFOUNDLAND, CANADA'   | <i>3.00pm to 3.20pm Afternoon Tea (Hall G)</i> |   | <i>3.10pm to 3.30pm Afternoon Tea (Hall G)</i> |   |
| 2.40pm<br><b>Keynote</b>                       | <b>Phillips</b> 'FORMATION OF GOLD DEPOSITS IN HIGH METAMORPHIC GRADE TERRAINS'   | 2.40pm   | <b>Zhang</b> 'STRUCTURAL CONTROLS ON AND CONTRIBUTIONS TO SYENITE-HOSTED GOLD MINERALIZATION IN THE CADILLAC-LARDER LAKE DEFORMATION ZONE, SOUTHERN ABITIBI GREENSTONE BELT: AN EXAMPLE FROM THE MATACHEWAN AREA' | 3.20pm   | <b>Cromie</b> 'GEOLOGICAL SETTING, GOLD-ORE PARAGENESIS AND TRACE ELEMENT GEOCHEMISTRY OF THE GOLD AND COPPER DEPOSITS IN THE SE-PON MINERAL DISTRICT, LAO PDR' | 3.30pm   | <b>Keays</b> 'CRUSTAL SULPHUR IS REQUIRED TO FORM MAGMATIC Ni-CU-(PGE) SULPHIDE DEPOSITS: EVIDENCE FROM CHALCOPHILE ELEMENT SIGNATURES OF SIBERIAN AND DECCAN TRAP BASALTS'             |
| <i>2.40pm to 3.10pm Afternoon Tea (Hall G)</i> |   | <i>3.00pm to 3.20pm Afternoon Tea (Hall G)</i>     |   | 3.40pm   | <b>Takayuki</b> 'GEOLOGY AND MINERALISATION OF THE PHUOC SON GOLD DEPOSITS, CENTRAL VIETNAM'  | 3.50pm   | <b>Bychkov</b> 'THE EFFECT OF Ni ON SULPHIDE SOLUBILITY IN MAFIC MAGMAS: 1. CALIBRATION OF A NEW SCSS MODEL AND MODELING SULPHIDE COMPOSITIONS AS A FUNCTION OF NiO IN SATURATED MELTS' |

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| <b>Session: Gold Deposits</b> |   | 3.20pm | <b>Ootes</b> 'A REVIEW OF THE METALLOGENIC EVOLUTION OF THE MACKENZIE AND THE EASTERN SELWYN MOUNTAINS, NORTH-WEST TERRITORIES, CANADA'  | 4.00pm | <b>Kamvong</b> 'ADAKITIC PORPHYRIES IN THE NORTHERN LOEI FOLD BELT, LAOS AND THAILAND: THEIR GENESIS AND IMPLICATIONS FOR TECTONICS AND METALLOGENY'  | 4.10pm | <b>Ariskin</b> 'THE EFFECT OF NI ON SULPHIDE SOLUBILITY IN MAFIC MAGMAS: 2. USE OF A NEW VERSION OF COMAGMAT TO MODEL SULPHIDES IN GABBRO-NORITIC MELTS AND OL CUMULUS PILES' |
| 3.10pm                        | <b>Kesler</b> 'NEW INSIGHTS INTO THE SIZE OF THE PUEBLO VIEJO HIGH-SULFIDATION GOLD-SILVER DISTRICT, DOMINICAN REPUBLIC'        | 3.40pm | <b>Gaboury</b> 'MAGMATIC, METEORIC AND METAMORPHIC FLUID COMPONENTS AT THE WORLD-CLASS ARCHEAN OROGENIC CASA-BERARDI GOLD DEPOSIT, ABITIBI BELT, CANADA: INSIGHTS FROM VOLATILE COMPOSITION AND DECREPITATION TEMPERATURE OF FLUID INCLUSIONS' | 4.20pm | <b>Zaw</b> 'GEOLOGY AND GENESIS OF CU-AU SKARN DEPOSITS, THAILAND AND LAO PDR'  | 4.30pm | <b>Cawthorn</b> 'ORIGIN OF MAGNETITITE LAYERS AND PLUGS, BUSHVELD COMPLEX'  |
| 3.30pm                        | <b>Oyungerel</b> 'GEOLOGY, PETROGRAPHY, AND TECTONIC SETTING OF THE TAVT GOLD DEPOSIT IN THE DZHIDA TERRANE, NORTHERN MONGOLIA' | 4.00pm | <b>Spry</b> 'NODULAR SILLIMANITE ROCKS AS FIELD INDICATORS OF METAMORPHOSED ORE DEPOSITS: EXAMPLES FROM NORTH AMERICA'   | 4.40pm | <b>TehGuan</b> 'THE MENGAPUR CU-AU SKARN DEPOSIT, PAHANG, MALAYSIA – IMPLICATIONS FOR ORE GENESIS'  | 4.50pm | <b>Hutchinson</b> 'THE MERSKYSKY REEF: AN EXAMPLE OF SEDIMENTARY-STYLE MAGMATIC DEPOSITION WITHIN A LARGE LAYERED MAFIC-ULTRAMAFIC COMPLEX.'                                  |
| 3.50pm<br><b>Keynote</b>      | <b>Corbett</b> 'ANATOMY OF PORPHYRY Cu-Au AND EPITHERMAL Au-Ag SYSTEMS'   | 4.20pm | <b>Steadman</b> 'THE GEOLOGY AND GEOCHEMISTRY OF BASE METAL SULFIDE MINERALIZATION IN THE FOSTER RIVER AREA, NORTHERN SASKATCHEWAN, CANADA: IMPLICATIONS FOR SEDEX AND BROKEN HILL-TYPE ORE SYSTEMS'   | 5.00pm | <b>My Dung</b> 'CENOZOIC CU-MO-AU MINERALIZATION ASSOCIATED WITH POTASSIC ALKALINE MAGMATISM IN THE JINPING - FAN SI PAN METALLOGENIC PROVINCE (JPF), SOUTHERN AILAO SHAN - RED RIVER SHEAR ZONE' | 5.10pm | <b>Godel II</b> 'HIGH-RESOLUTION X-RAY COMPUTED TOMOGRAPHY: INSIGHTS ON ITS APPLICATION TO    NI-CU-PGE ORE DEPOSITS'   |
| 4.20pm                        | <b>Reith</b> 'THE ROLE OF BACTERIA IN MOBILIZATION AND DEPOSITION OF GOLD'  | 4.40pm | <b>Brito</b> 'Nd ISOTOPIC DATA AND U-Pb AGE OF THE Ni-Cu-BEARING CANINDÉ MAFIC ULTRAMAFIC INTRUSION-SERGIPANO BELT BORBOREMA PROVINCE-BRAZIL'  | 5.20pm | <b>Watkinson</b> 'CAUSES OF DUCTILE SHEAR IN METAMORPHIC ROCKS EXPOSED ALONG THE PALU-KORO FAULT ZONE, SULAWESI, INDONESIA.'  | 5.30pm | <b>Zaccarini</b> 'OPHIOLITIC CHROMITITES FROM BURSA (NW TURKEY): FIRST DATA ON PLATINUM GROUP ELEMENTS DISTRIBUTION AND MINERALOGY'   |

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| 4.40pm | <b>Silva</b> 'METALLOGENY OF THE JURUENA-TELES PIRE'S GOLD PROVINCE, SOUTHERN PORTION OF THE AMAZON CRATON, BRAZIL'     | 5.00pm | <b>Zappettini</b> 'LOWER JURASSIC ALGOMATYPE BIF MINERALIZATION AT CORDILLERA DEL VIENTO, NW NEUQUÉN, ARGENTINA' | 5.40pm | <b>Crow</b> 'PALAEOZOIC TO CENOZOIC MINERALIZATION AND OROGENY IN THAILAND' | 5.50pm | <b>Sweetapple</b> 'PEGMATITE-HOSTED LITHIUM RESOURCES OF AUSTRALIA: A REVIEW OF CHARACTERISTICS AND EXPLORATION' |
| 5.00pm | <b>Gauthier</b> 'THE GIANT PORGERA EPITHERMAL ALKALIC GOLD DEPOSIT, PNG, AN UPDATED STRUCTURAL FRAMEWORK'               | 5.20pm | <b>Chen</b> 'MESOZOIC IOCG MINERALIZATION IN THE CENTRAL ANDES'  |        |   |        |  |
| 5.20pm | <b>Crawford</b> 'VICTORIAN PALAEOZOIC TURBIDITE-HOSTED GOLD DEPOSITS REFLECT AN UNUSUALLY GOLD-RICH BASEMENT SEQUENCE?' |        |  |        |   |        |  |
| 5.30pm | Exhibition Closes (Hall G)  |        |  |        |   |        |  |

#### Thursday 8 April 2010

| 9.00am                   | Exhibition Opens (Hall G)  |  |   |   |  |  |  |
|--------------------------|--|--|---|---|--|--|--|
| 9.00am                   | Concurrent Sessions Commence *PLEASE NOTE THE VARYING START TIMES*   |  |   |   |  |  |  |
| Hall C - Stream 1        |  | Meeting Room 10 - Stream 2               |   |   | Meeting Room 1&2 - Stream 3  |  |  |
| Session: New South Wales |  | Session: Queensland & Northern Territory |   |   | Session: New Zealand, Papua New Guinea   |  |  |
| 9.00am<br><b>Keynote</b> | <b>Gilligan</b> 'EVOLUTION OF A MINERAL ENDOWMENT, NEW SOUTH WALES, AUSTRALIA'   | 9.00am<br><b>Keynote</b>                 | <b>Kirwin</b> 'RECENT EXPLORATION SUCCESSES IN THE SOUTHERN CLONCURRY REGION, EASTERN FOLD BELT, NORTHWEST QUEENSLAND'  | 8.50am<br><b>Keynote</b>                | <b>Corbett</b> 'SOUTHWEST PACIFIC RIM COPPER-GOLD'   |  |  |
| 9.30am                   | <b>Stevens</b> 'THE GIANT BROKEN HILL Pb-Zn-Ag DEPOSIT, AUSTRALIA GEOLOGICAL ENVIRONMENT CLARIFIED'  | 9.30am                                   | <b>Southgate</b> 'USING TIME-CONSTRAINED FACIES BELTS AND SEQUENCE MODELS TO CORRELATE THE WESTERN AND EASTERN SUCCESIONS OF THE MT ISA INLIER: IMPLICATIONS FOR BASE-METAL FLUID EVOLUTION.' | 9.20am                                  | <b>van Dongen</b> 'LITHOSPHERIC- TO LOCAL-SCALE CONTROLS ON MAGMATISM AND CU-AU MINERALIZATION AT THE OK TEDI DEPOSIT, PAPUA NEW GUINEA' |  |  |
| 9.50am                   | <b>Lotfolah Hamedani</b> 'APPLICATION OF NON-STRUCTURAL AND STRUCTURAL STATISTICS FOR THE GEOCHEMICAL AND MINERALOGICAL EVALUATION OF THE WESTERN MINERALISATION, BROKEN HILL' | 9.50am                                   | <b>Gibson</b> 'GEODYNAMIC AND METALLOGENIC EVOLUTION OF THE MT ISA REGION: INSIGHTS FROM BASIN ARCHITECTURE AND DEEP SEISMIC REFLECTION PROFILING'  | 9.40am                                  | <b>Spencer</b> 'WOODLARK ISLAND, PAPUA NEW GUINEA: AN EXPANDING EPITHERMAL GOLD PROVINCE.'   |  |  |
| 10.10am                  | <b>Forster</b> 'TRACING METALLOGENIC EVENTS IN NEW SOUTH WALES -THE RELEASE OF THE STATEWIDE LEAD ISOTOPE DATASET'   | 10.10am                                  | <b>Carr</b> 'GIANT PB-ZN ORES REVEALED BY THEIR PB ISOTOPES'  | 10.00am                                 | <b>Mauk</b> 'THE HAURAKI GOLDFIELD AND THE GIANT WAIHI EPITHERMAL AU-AG VEIN SYSTEM, NEW ZEALAND'  |  |  |
| 10.30am                  | <b>Mowat</b> 'PORPHYRY COPPER GOLD MINERALISATION IN THE GIDGINBUNG VOLCANICS'   | 10.30am                                  | <b>Feltrin</b> 'THREE-DIMENSIONAL RECONSTRUCTION AND FLUID FLOW MODELLING AS A GUIDE TO THE GENESIS AND REWORKING OF THE CENTURY ZINC DEPOSIT'  | 10.20am to 10.40am Morning Tea (Hall G) |  |  |  |

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| 10.50am to 11.10am Morning Tea (Hall G) |  | 10.50am to 11.10am Morning Tea (Hall G) |  | <b>Session: Present-day Mineralising Systems</b> |  |
| 11.10am                                 | <b>Berthelsen</b> 'COBAR GOLDFIELD MINERAL DEPOSITS'   | 11.10am                                 | <b>Chopping</b> 'LINKS BETWEEN THE EASTERN BOUNDARY OF THE MOUNT ISA PROVINCE AND IOCG MINERALISATION: NEW GEOPHYSICAL EVIDENCE'         | 10.40am<br><b>Keynote</b>                        | <b>de Ronde</b> 'EVOLUTION OF SEA-FLOOR HYDROTHERMAL SYSTEMS ALONG INTRAOCEANIC ARCS'  |
| 11.30am                                 | <b>Loidl</b> 'THE ELURA PB – ZN – AG DEPOSIT, CENTRAL NSW, AUSTRALIA: A TWO – STAGE ORE GENESIS?'                    | 11.30am                                 | <b>Baker</b> 'GOLD IN NORTH QUEENSLAND: MULTIPLE STYLES, EVENTS AND OUNCES'  | 11.10am  | <b>Berkenborsch</b> 'THE ANATOMY OF A BLACK SMOKER CHIMNEY: BROTHERS SUBMARINE VOLCANO, KERMADEC ARC'  |
| 11.50am                                 | <b>Rothery</b> 'UNDERCOVER GIANTS - THE THOMSON FOLD BELT IN NSW'  | 11.50am                                 | <b>Morrison</b> 'CHARTERS TOWERS GOLDFIELD, QUEENSLAND: EXPLORATION AND RESEARCH INDICATE GIANT POTENTIAL'                               | 11.30am  | <b>Gruen</b> 'MULTI-PHASE FLUID FLOW SIMULATIONS OF BROTHERS VOLCANO, AN ACTIVE ARC-RELATED SUBMARINE HYDROTHERMAL SYSTEM'   |
| 12.10pm                                 | <b>Duerden</b> 'THE MCPHILLAMYS GOLD DEPOSIT, A SIGNIFICANT DISCOVERY IN THE LACHLAN FOLD BELT, CENTRAL WESTERN NSW' | 12.10pm<br><b>Keynote</b>               | <b>Huston</b> 'THE GEODYNAMIC AND METALLOGENIC EVOLUTION OF THE NORTH AUSTRALIAN CRATON - LINKS TO THE AMALGAMATION AND BREAKUP OF NUNA' | 11.50am  | <b>Bortnikov</b> 'THE ASHADZE AND LOGATCHEV ULTRAMAFIC HOSTED SEA-FLOOR SULFIDE DEPOSITS (MID-ATLANTIC RIDGE): FLUID INCLUSION, HE AND PB ISOTOPE STUDIES'   |
| 12.30pm                                 | <b>Blevin</b> 'GRANITE-RELATED MINERAL SYSTEMS OF NEW SOUTH WALES, AUSTRALIA'  | 12.40pm                                 | <b>Mulholland</b> 'THE MYRTLE ZINC-LEAD DEPOSIT, NORTHERN TERRITORY, AUSTRALIA'  | <b>Session: VMS Deposits</b>                     |  |
| 12.50pm to 1.30pm Lunch (Hall G)        |  | 1.00pm to 1.50pm Lunch (Hall G)         |  | 12.15pm<br><b>Keynote</b>                        | <b>R. Allen</b> 'STYLES AND GENESIS OF PALAEOPROTEROZOIC Zn-Pb-Ag-(Cu-Au) MASSIVE SULPHIDE DEPOSITS IN SWEDEN: CLASSIC VMS AND ENIGMATIC REPLACEMENT, SKARN, SEDEX, BHT DEPOSITS?'   |
| 1.30pm                                  | <b>David</b> 'COBAR STYLE DEPOSITS - FROM DWARFS TO GIANTS '   | <b>Session: Gem Deposits</b>            |  | 12.45pm to 1.40pm Lunch (Hall G)                 |  |
| 1.50pm                                  | <b>van der Borgh</b> 'THE BRAIDWOOD GOLDFIELD: MINERALISED DEVONIAN GRANODIORITE IN THE LACHLAN FOLD BELT'           | 1.50pm<br><b>Keynote</b>                | <b>Harris</b> 'RELATIVELY SMALL BUT DEFINITELY BEAUTIFUL: THE GENESIS OF DIAMOND.'   | 1.40pm   | <b>A. Allen</b> 'STRATABOUND REPLACEMENT AND TECTONIC REMOBILED Zn-Pb-Cu-Au-Ag ORES ATRENSTRÖM, SWEDEN'S RICHEST MASSIVE SULPHIDE DEPOSIT'   |
| 2.10pm                                  | <b>Coenraads</b> 'EASTERN AUSTRALIAN VOLCANIC TERRAIN BAUXITE DEPOSITS'  | 2.20pm                                  | <b>Phillips</b> 'GEOCHRONOLOGICAL CONSTRAINTS ON THE PROVENANCE OF GEMSTONE PLACER DEPOSITS: EXAMPLES FROM DETRITAL DIAMOND DEPOSITS'    | 2.00pm   | <b>Garuti</b> 'HIGH AND LOW TEMPERATURE GOLD MINERALIZATIONS IN THE Fe-Cu-Zn SULPHIDE DEPOSITS OF CORCHIA OPHIOLITE, NORTHERN ITALIAN APENNINE.'   |
| 2.30pm to 3.00pm Afternoon Tea (Hall G) |  | 2.40pm                                  | <b>Rey</b> 'THE FORMATION OF SEAM OPALS AT LIGHTNING RIDGE'  | 2.20pm   | <b>Badrzadeh I</b> 'VOLCANOGENIC CU-ZN-AU AND CU-ZN MASSIVE SULFIDE MINERALIZATION IN THE SARGAZ-MATA METALLOGENIC PROVINCE, SANANDAJ-SIRJAN ZONE, IRANGaruti 'HIGH AND LOW TEMPERATURE GOLD MINERALIZATIONS IN THE Fe-Cu-Zn SULPHIDE DEPOSITS OF CORCHIA OPHIOLITE, NORTHERN ITALIAN APENNINE.' |

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|                                   |  | 3.00pm to 3.20pm Afternoon Tea (Hall G) | 2.40pm   | <b>Badrzadeh II</b> 'SARGAZ: A BI-MODAL-MAFIC VOLCANOGENIC MASSIVE SULFIDE (VMS) DEPOSIT IN KERMAN, SOUTHEAST IRAN' |
| <b>Session: Western Australia</b> |  |   |  |   |
| 3.00pm<br><b>Keynote</b>          | <b>Miller</b> 'DEVELOPMENTS IN UNDERSTANDING THE LOCATION OF WORLD-CLASS ARCHEAN GOLD SYSTEMS IN THE YILGARN CRATON'                               | 3.20pm                                  | <b>Pecover</b> 'FLUID FLOW AND BRITTLE FRACTURE TEXTURES IN OPAL VEINS- CLUES TO THE ORIGIN OF OPAL IN THE GREAT AUSTRALIAN BASIN' | 3.00pm to 3.20pm Afternoon Tea (Hall G)   |
| 3.30pm                            | <b>Barley</b> 'THE SPINIFEX RIDGE 3.3 GA PORPHYRY-STYLE Mo-Cu DEPOSIT, EAST PILBARA, WESTERN AUSTRALIA, THE WORLD'S OLDEST.'                       | 3.40pm                                  | <b>Graham</b> 'GEM CORUNDUM DEPOSITS OF PRIMORYE, FAR EASTERN RUSSIA: ORIGIN AS XENOCRYSTS FROM MIOCENE INTRAPLATE BASALTS'        | <b>Session: Africa and Madagascar</b>   |
| 3.50pm                            | <b>Pirajno I</b> 'THE ABRA DEPOSIT: A BRECCIA PIPE POLYMETALLIC MINERAL SYSTEM IN THE EDMUND BASIN, CAPRICORN OROGEN, WESTERN AUSTRALIA'           | 4.00pm                                  | <b>Sutherland</b> 'HYDRA-HEADED, DIFFUSE, 'GIANT' GEM DEPOSITS FROM BASALT FIELDS, AUSTRALASIAN AND ASIAN-RUSSIAN MARGINS.'        | 3.20pm<br><b>Keynote</b>  |
| 4.10pm<br><b>Keynote</b>          | <b>TBA</b>   | 4.20pm                                  | <b>Sutthirat</b> 'TRAPICHE SAPPHIRES FROM MAIN BASALT-RELATED DEPOSITS IN SE ASIA: AN INDICATION OF INITIAL FORMATION'             | 3.50pm  |
| 4.40pm                            | <b>Taylor</b> 'VENUS RESOURCES; TARGETING GIANT ORE DEPOSITS 'DOWN-UNDER' UTILISING REGIONAL STRUCTURAL ANALYSIS.'                                 | 4.40pm                                  | <b>McGee</b> 'CHARACTERISTICS, AGE AND ORIGIN OF SAPPHIRES FROM NE TASMANIA, AUSTRALIA'  | 4.10pm  |
| 5.10pm                            | <b>Pirajno II</b> 'THE GIFFORD CREEK CARBONATITE COMPLEX AND ASSOCIATED REE, U AND FE OXIDES MINERALISATION, GASCOYNE PROVINCE, WESTERN AUSTRALIA' |   |  | 4.40pm  |
| 5.00pm                            | Exhibition Closes (Hall G)   |   |  |   |
| 6.30pm                            | Symposium Dinner - Adelaide Zoo, Plane Tree Drive, Adelaide  |   |  |   |

| Friday 9 April 2010                    |   |   |   |   |   |
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| 8.40am                                 | Concurrent Sessions Commence *PLEASE NOTE THE VARYING START TIMES*  |   |   |   |   |
| 9.00am                                 | Exhibition Opens (Hall G)   |   |   |   |   |
| Hall C - Stream 1                      |   | Meeting Room 10 - Stream 2              |   | Meeting Room 1&2 - Stream 3             |   |
| Session: South Australia               |   | Session: Victoria & Tasmania            |   | Session: China & East Asia              |   |
| 8.50am<br><b>Keynote</b>               | <b>Fairclough</b> 'ECONOMIC GEOLOGY AND MINERAL POTENTIAL OF CRYSTALLINE BASEMENT IN SOUTH AUSTRALIA'   | 8.40am<br><b>Keynote</b>                | <b>Wilson</b> 'FAULT CONTROL ON GOLD MINERALISATION IN THE CENTRAL VICTORIAN PORTION OF THE LACHLAN FOLD BELT, AUSTRALIA'                                 | 9.10am<br><b>Keynote</b>                | <b>Mao Jingwen</b> 'MESOZOIC METALLOGENY IN THE EASTERN CHINA CONTINENT'  |
| 9.20am                                 | <b>Giles</b> 'THE PERFECT STORM? CONDITIONS AND CONTEXT FOR THE FORMATION OF A 1590 MA GIANT MINERAL SYSTEM ON THE GAWLER CRATON'                                 | 9.10am                                  | <b>Squire</b> 'A REVIEW OF THE TECTONIC CONTROLS ON 440 MA AU METALLOGENESIS IN THE LACHLAN OROGEN'   | 9.40am                                  | <b>Wu Huaying</b> 'EARLY CRETACEOUS LARGE-SCALE MO-CU MINERALIZATION IN THE XILAMULUN METALLOGENIC BELT, NE CHINA, AND ITS CONSTRAINTS ON PARTIAL MELTING OF THE CRUST-MANTLE TRANSITION ZONE DURING LITHOSPHERIC THINNING' |
| 9.50am                                 | <b>Say</b> 'THE HILLSIDE CU-AU PROJECT SOUTH AUSTRALIA'   | 9.30am                                  | <b>Osborne</b> 'A RE-EVALUATION OF THE STRUCTURAL HISTORY AND NUMERICAL MODELLING OF THE BALLARAT EAST GOLDFIELD'   | 10.00am                                 | <b>Yuchuan Chen</b> 'THE MAGNETITE-APATITE DEPOSITS IN THE IN THE LOWER REACH OF THE YANGTZE RIVER VALLEY, EAST CHINA'  |
| 10.10am                                | <b>Katona</b> 'EXPLORATION TARGETING IN SOUTH AUSTRALIA USING MINERAL POTENTIAL MODELLING – EXAMPLES FROM FLINDERS RANGES, MUSGRAVE PROVINCE AND GAWLER PROVINCE' | 9.50am                                  | <b>Leader</b> 'NUMERICAL SIMULATIONS CONSTRAINED BY STRUCTURAL DATA COLLECTED FROM HIGH-GRADE QUARTZ REEFS OF THE BENDIGO GOLDFIELD, VICTORIA, AUSTRALIA' | 10.20am to 10.50am Morning Tea (Hall G) |   |
| 10.30am - 10.50am Morning Tea (Hall G) |   | 10.10am                                 | <b>Phillips</b> 'THE TIMING OF GOLD MINERALISATION IN VICTORIA: A CRITICAL OVERVIEW AND NEW APPROACHES'   | 10.50am<br><b>Keynote</b>               | <b>Hu Ruizhong</b> 'THE RELATIONSHIP BETWEEN URANIUM MINERALIZATION AND LITHOSPHERIC EXTENSION DURING CRETACEOUS TO TERTIARY IN SOUTH CHINA'  |
| 10.50am<br><b>Keynote</b>              | <b>McPhie</b> 'THE ORIGIN OF OLYMPIC DAM: A REVOLUTIONARY NEW VIEW'   | 10.30am to 10.50am Morning Tea (Hall G) |   | 11.20am                                 | <b>Hu Yu-zhao</b> 'CARLIN -STYLE GOLD DEPOSITS, SOUTHWESTERN GUIZHOU ,CHINA - THE CHARACTERISTICS OF THRUST-NAPLE STRUCTURES BY SEISMIC INTERPRETATION'   |
| 11.20am                                | <b>Meffre</b> 'PB ISOTOPES AT OLYMPIC DAM: CONSTRAINING SULPHIDE GROWTH'  | 10.50am                                 | <b>Fu</b> 'REGIONAL CONTROLS ON GOLD-RELATED FLUIDS INDICATED BY NOBLE GASES AND HALOGENS, CENTRAL VICTORIA, AUSTRALIA'                                   | 11.40am                                 | <b>Han Runsheng</b> 'ARE CARBONATE-HOSTED ZN-PB-(AG-GE) DEPOSITS IN NORTHEAST YUNNAN DISTRICT TYPICAL MVT-TYPE ZN-PB DEPOSIT ?'   |

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| 11.40am  | <b>Priess</b> 'BURRA – A HYDROTHERMAL, PORPHYRY-RELATED NEOPROTEROZOIC COPPER DEPOSIT IN THE ADELAIDE GEOSYNCLINE, SOUTH AUSTRALIA'   | 11.10am                                   | <b>Fairmaid</b> 'NOBLE GAS AND HALOGEN CONSTRAINTS ON GOLD MINERALISING FLUIDS; AN EXAMPLE FROM BALLARAT EAST, SE AUSTRALIA' | 12.00pm  | <b>Ye Lin</b> 'DISCUSSION ON CONCENTRATION OF CADMIUM IN NIUJIAOTANG ZINC DEPOSIT, GUIZHOU, CHINA'   |
| 12.00pm  | <b>Griessmann</b> 'THE POTENTIAL METAL SOURCE FOR GOLD MINERALISATION WITHIN THE UMBERATANA GROUP OF THE ADELAIDE FOLD BELT, SOUTH AUSTRALIA'   | 11.30am                                   | <b>Miller</b> 'AN ASSESSMENT OF TARGETING WORLD CLASS OROGENIC GOLD DEPOSITS IN VICTORIA FROM A YILGARN PERSPECTIVE.'        | <i>12.20pm to 1.20pm Lunch (Hall G)</i>        |  |
| <b>Fluvial palaeo systems &amp; onshore basins: evolution &amp; mineral deposits</b> |   | 11.50am                                   | <b>Bottrill</b> 'PETROLOGY, GEOCHEMISTRY AND MINERALOGY OF THE SAVAGE RIVER MINE SEQUENCE AND HOST ROCKS, TASMANIA.'         | 1.20pm<br><b>Keynote</b>                       | <b>Chen Yanjing</b> 'HIGH-SALINITY CO <sub>2</sub> -RICH FLUID: CHARACTERISTIC OF THE INTRACONTINENTAL INTRUSION-RELATED HYPOTHERMAL DEPOSITS'                                     |
|  |   | 12.10pm                                   | <b>Bottrill</b> 'PETROLOGY, GEOCHEMISTRY AND MINERALOGY OF THE SAVAGE RIVER MINE SEQUENCE AND HOST ROCKS, TASMANIA.'         | 1.50pm   | <b>Li Nuo</b> 'TWO GENETIC TYPES OF MO DEPOSITS IN THE EAST QINLING AREA, CHINA: INTRUSION-RELATED HYPOTHERMAL DEPOSITS AND FAULT-CONTROLLED OROGENIC DEPOSITS'                    |
| <i>12.55pm to 1.30pm Lunch (Hall G)</i>  |   | <i>12.30pm to 1.30pm Lunch (Hall G)</i>   |  | 2.20pm   | <b>Wang Lijuan</b> 'SOURCE AND EVOLUTION OF ORE-FLUID OF THE XITIESHAN SEDIMENTARY-EXHALATIVE (SEDEX) LEAD-ZINC DEPOSIT, QINHAI PROVINCE, CHINA'                                   |
| 1.30pm   | <b>Hou</b> 'HEAVY MINERAL SANDS IN THE EUCLA BASIN, SOUTHERN AUSTRALIA: DEPOSITION AND PROVINCE-SCALE PROSPECTIVITY'  | <b>Session: Russia &amp; Central Asia</b> |  | 2.40pm   | <b>Men Jing</b> 'HYDROTHERMAL EVOLUTION OF THE XIAOXINANCHA GOLD-RICH COPPER DEPOSIT IN YANBIAN, JILIN, CHINA: EVIDENCE FROM FLUID INCLUSIONS'                                     |
| 1.50pm   | <b>Dill</b> 'THE 'DONAUPLATIN' : SOURCE ROCK ANALYSIS, MORPHOLOGY, GRANULOMETRY AND ORIGIN OF A DISTAL FLUVIAL AU-PGE PLACER RELATED TO ULTRAMAFIC ROCKS AND IMPACTS IN CENTRAL EUROPE' | 1.30pm<br><b>Keynote</b>                  | <b>Wilde</b> 'THE GIANT GOLD DEPOSIT AT MURUNTAU, UZBEKISTAN: DID LIGHTNING STRIKE MORE THAN ONCE?'                          | <i>3.00pm to 3.20pm Afternoon Tea (Hall G)</i> |  |
| <b>Session: Europe &amp; Adjacent Areas</b>  |   | 2.00pm                                    | <b>Goryachev</b> 'NATALKA GOLD DEPOSITS - GIANT OROGENIC AU DEPOSIT OF NORTH EAST ASIA'                                      | 3.20pm<br><b>Keynote</b>                       | <b>Zhou Toafa</b> 'GRANITES AND VOLCANIC ROCKS IN WEST JUNGGAR, XINJIANG, CHINA: GEOCHRONOLOGICAL, GEOCHEMICAL CHARACTERISTICS AND THEIR GEODYNAMIC AND METALLOGENIC SIGNIFICANCE' |

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| 2.20pm<br><b>Keynote</b>                       | <b>Sundblad</b> '100 YEARS OF INDIUM DISCOVERIES IN THE FENNOSCANDIAN SHIELD'   | 2.20pm   | <b>Prokofyev</b> 'THE WORLD-CLASS VEIN GOLD-SULFIDE-QUARTZ DEPOSIT AT DARASUN (EASTERN TRANS-BAYKALIA, RUSSIA): CHEMICAL COMPOSITION, REE, STABLE ISOTOPES OF O AND C IN   ORE VAIN CARBONATES' | 3.50pm | <b>Xu Jihua</b> 'GOLD-COPPER MINERALIZATION AND CARBONIC FLUIDS IN LOW DEVONIAN STRATA OF THE KELAN BASIN, ALTAIDES, CHINA'       |
| 2.50pm   | <b>Dill</b> 'THE FORMATION OF THE LATE VARISCAN HAGENDORF-PLEYSTEIN PHOSPHATE PEGMATITE PROVINCE (NE BAVARIA, GERMANY) AND THEIR HYPOGENE AND SUPERGENE ALTERATION' | 2.40pm<br><b>Keynote</b>                       | <b>Malich</b> 'GEOCHRONOLOGY AND HF-ND-SR-OS-S ISOTOPE SYSTEMATICS OF THE NORIL'SK-TYPE INTRUSIONS: NEW INSIGHTS FOR PROLONGED EVOLUTION AND SOURCE HETEROGENEITY'                              | 4.10pm | <b>Liu Junlai</b> 'ANOMALOUS GOLD TELLURIDE ACCUMULATION IN NORTHEASTERN CHINA, MINERAL ASSEMBLAGE, TIMING AND TECTONIC CONTROLS' |
| 3.10pm<br><b>Keynote</b>                       | <b>Wilkinson</b> 'IRISH ZN-PB: NEW INSIGHTS'  | <i>3.10pm to 3.30pm Afternoon Tea (Hall G)</i> |   | 4.30pm | <b>Seredin</b> 'GIANT COAL-HOSTED GE DEPOSITS: THE COMPARATIVE ANALYSIS AS A KEY TO THE DECISION OF A GENETIC PROBLEM'            |
| <i>3.30pm to 3.50pm Afternoon Tea (Hall G)</i> |   | 3.30pm   | <b>Tretiakova</b> 'HYDROTHERMAL COBALT DEPOSITS AND MAGMATISM OF THE ALTAY-SAYAN FOLD AREA (RUSSIA)'  | 4.50pm | <b>Yao Junming</b> 'RB-SR DATING AND FLUID INCLUSION FEATURES OF THE WANGPINGXIGOU Pb-Zn DEPOSIT, HENAN PROVINCE, CHINA'          |
| 3.50pm   | <b>Cook</b> 'LA-ICPMS ANALYSIS OF MINOR ELEMENTS IN BORNITE, CHALCOCITE AND DIGENITE'   | 3.50pm   | <b>Naumov</b> 'AGE OF GOLD MINERALIZATION IN WEST SIBERIA AND EASTERN KAZAKHSTAN'   |        |   |
| 4.10pm   | <b>Ciobanu</b> 'THE EFEMÇUKURU GOLD DEPOSIT, WESTERN TURKEY: PETROGRAPHY AND INVISIBLE GOLD IN ARSENIAN PYRITE'   | 4.10pm   | <b>Kurinnaya</b> 'SPECIAL CHARACTERISTICS OF GEOCHEMICAL ASSOCIATION OF ASACHINSKY AND AINSKY AU-AG EPITHERMAL DEPOSITS'  |        |   |
| 4.40pm   | <b>Daliran</b> 'ANGOURAN DEPOSIT- A NEW TYPE OF HYDROTHERMAL, MIXED SULFIDE-CARBONATE ZN(PB) MINERALIZATION FROM NORTHWESTERN IRAN'                                 | 4.30pm   | <b>Sidarova</b> 'GIS&RS INTERACTIVE MODEL OF THE GIANT GOLD DEPOSIT – MURUNTAU IN CENTRAL KYZYLKUM ORE-MAGMATIC CENTRE (CKOMC), WESTERN UZBEKISTAN'   |        |   |
|  |   | 4.50pm   | <b>Derbeko</b> 'ROLE OF GEODYNAMIC SETTING AT THE FORMATION OF TIN-ORE DEPOSITS (THE CASE OF THE KHINGAN-OKHOTSK VOLCANO-PLUNONIC BELT, FAR EAST, RUSSIA)'                                      |        |   |
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| 5.00pm   | Exhibition Closes (Hall G)  |  |   |        |   |