

Programme of talks in scientific sessions
(not including workshops and short courses)

K = keynote, Inv = invited talk

Monday 10/1

08:30-08:45 (Auditorium) Welcome

08:45-09:15 (Auditorium) Plenary talk by C.J. Hawkesworth: The geological record of when and how the continental crust was generated

| D les 103 | | D les 201 | | D les 202 | | D les 203 | | D les 204 | |
|--|---|---|---|---|---|---|---|---|--|
| <p>S 3.1 Archaean to Palaeoproterozoic crustal evolution and continental growth, combined with S 3.2, Archaean greenstone belts, surface processes and life. Chairs: L. Ashwal, U. Cordani, S. Master</p> | | <p>S 3.5 Mesoproterozoic orogenic cycles, Pan-African fold belts in Africa and contiguous parts of Gondwana. Chairs: G. Grantham, G. Okunola, H. Fritz</p> | | <p>S 12 Geoheritage in Africa. Chairs: A. Asfawossen, J. Briha</p> | | <p>S14: Recent advances in basic and applied mineralogy. Chairs: D. Chetty, J. de Villiers, G. Calas</p> | | <p>S 4.2 Cenozoic alkaline provinces of western and southern Africa. Chair: M.S. Njome</p> | |
| 09:30-10:00 | A. Kröner et al.: ORIGIN OF EARLY ARCHAIC TONALITIC MASSIFS AND GREENSTONE BELTS: VOLCANIC ROCKS ON THE BASIS OF ZIRCON AGES AND Hf-Nd ISOTOPIC SYSTEMATICS | 09:30-09:45 | B. Blingen et al.: GEOLOGICAL EVOLUTION OF NORTHEASTERN MOZAMBIQUE, IN THE CONTEXT OF PAN-AFRICAN GONDWANA ASSEMBLY | 09:30-10:00 | J. Briha: GEOCONSERVATION: A NEW GEOSCIENCES CONTRIBUTION FOR SOCIETY | 09:30-10:00 | G. Calas: MINERALOGY, APPLIED MINERALOGY AND ENVIRONMENTAL MINERALOGY: BRIDGING THE GAP FROM MICROSCOPIC TO MACROSCOPIC | 09:45-10:00 | K. Goodenough et al.: CRETACEOUS & CENOZOIC VOLCANISM IN NORTH MADAGASCAR: A TALE OF TWO PLUMES? |
| 10:00-10:15 | C.J.M.G. Sanchez-Garrido et al.: PALEO-ARCHEAN GRANITES AND RHYOLITES IN THE PROTO-CONTINENTAL CRUST | 09:45-10:00 | P.H. Maey et al.: MESOPROTEROZOIC EVOLUTION OF THE NAMPULA BLOCK, N. MOZAMBIQUE | 10:00-10:30 | A. Asfawossen: GEOHERITAGES AND GEOTOURISM IN ETHIOPIA | 10:00-10:30 | J.P.R. De Villiers: PROCESS MINERALOGY: A NECESSITY FOR PROCESS OPTIMISATION IN THE MINERALS AND METALLURGICAL INDUSTRY | 10:00-10:15 | N.C. Mukosi et al.: PETROGENESIS OF THE AMBOHEBY COMPLEX MADAGASCAR AND THE ROLE OF THE MARION HOTSPOT |
| 10:15-10:30 | A. Zeh et al.: EVOLUTION OF THE KALAHARI CRATON - THE HAFNIUM ISOTOPE PERSPECTIVE | 10:00-10:15 | R.J. Thomas et al.: LATE TECTONIC EVOLUTION OF THE NAMPULA COMPLEX, NE MOZAMBIQUE | | | | | 10:15-10:30 | J. Berger et al.: TECTONIC CONTROL OF THE MOROCCAN CENOZOIC ALKALINE VOLCANISM: NO ROLE FOR ANY KIND OF MANTLE PLUME |

10:30-11:00 Coffee Break

| S 3.1 + 3.2 - continued | | S 3.5 - continued | | S 12 - continued | | S 14 - continued | | S 4.2 - continued | |
|--|---|--|--|---|---|---|--|---|--|
| <p>S. Foley: CRUST-FORMING PROCESSES BEFORE AND DURING THE ADVENT OF CRATONS</p> | | <p>H. Fritz et al.: TECTONIC STYLES OF NEOPROTEROZOIC - EARLY PHANEROZOIC EAST AFRICAN OROGENS</p> | | <p>B. Cairncross: THE POPULARIZATION OF SOUTH AFRICA'S GEOLOGICAL AND MINERAL GEOHERITAGE</p> | | <p>G. Ona-Nguema: BIOMINERALIZATION OF AS-DOPED MAGHEMITE: IMPLICATIONS FOR ARSENIC SEQUESTRATION</p> | | <p>E. Njongfang et al.: AN EXAMPLE OF GRANITE-SYENITE SENSE OF DIFFERENTIATION IN A PERALKALINE MELT?</p> | |
| 11:00-11:30 | | 11:00-11:15 | G. Grantham et al.: ASPECTS OF THE STRUCTURAL EVOLUTION OF BALCHEN-JELLA, EAST SOR-RONDANE, ANTARCTICA AND ITS GONDWANA CONTEXT. | 11:00-11:15 | B. Cairncross: RARE GEOLOGICAL SPECIMENS AS GEOHERITAGE ARTIFACTS - A SOUTH AFRICAN PERSPECTIVE | 11:00-11:15 | V. Govender et al.: EVALUATION OF FE ORE PARTICLE SHAPE, DENSITY AND SIZE USING MLA TECHNOLOGY TO DETERMINE THEIR INFLUENCE ON GRAVITY SEPARATION METHODS | 11:00-11:15 | M.S. Njome and M. de Wit: THE CAMEROON LINE: CONSTRAINTS, CONTROVERSIES AND MODELS |
| 11:30-11:45 | D.A.D. Evans et al.: NEOARCHAIC-PALEOPROTEROZOIC CONTINENTAL RECONSTRUCTIONS | 11:15-11:30 | G. Grantham et al.: PRELIMINARY RESULTS OF METAMORPHIC P-T STUDIES ON EAST SOR-RONDANE, ANTARCTICA | 11:15-11:30 | J.M. Jansen van Rensburg and M.S. Coetzee: GEOHERITAGE PERTAINING TO GOLDMINES AND GRANITE QUARRIES IN THE VREDEFORT DOME, SA | 11:15-11:30 | L.L. Coetzee et al.: APPLIED GOLD DEPARTMENT STUDIES | 11:15-11:30 | S4.3 Kimberlite Magmatism in Africa. Chairs: H. Sommer, K.S. Viljoen |
| 11:45-12:00 | R.J. Tucker, J.Y. Roig et al.: NEOPROTEROZOIC EXTENSION IN THE GREATER DHARWAR CRATON: A REEVALUATION OF THE 'BETSIMISARAKA SUTURE' IN MADAGASCAR | 11:30-11:45 | R.B.M. Mapeo et al.: GEOCHEMISTRY AND ION MICROPROBE U-PB DATING OF ZIRCONS FROM THE ROIBOK METAMORPHIC COMPLEX IN THE GHANZCHORE BELT, NORTHERN BOTSWANA: IMPLICATIONS FOR THE PAN AFRICAN OROGENESIS IN SOUTHERN AFRICA. | 11:30-11:45 | S. Diskin and C. Ashley: CHARACTERISATION OF EARLY BATAWANA POTTERY FROM THE KHWIBE HILLS OF NORTHERN BOTSWANA: IMPLICATIONS FOR RAW MATERIAL SOURCING. | 11:30-11:45 | K. Pillay et al.: MINERALOGICAL EFFECTS ON THE GRAVITY CONCENTRATION OF LOW GRADE SELKIRK NICKEL ORE | 11:45-12:00 | H. Jelsma et al.: KIMBERLITE TIMEPIECES FOR GENETIC UNRAVELLING OF CONTINENTS |
| 12:00-12:15 | R.J. Tucker, J.Y. Roig et al.: A NEW GEOLOGICAL FRAMEWORK FOR SOUTH-CENTRAL MADAGASCAR, AND ITS RELEVANCE TO THE 'OUT-OF-AFRICA' HYPOTHESIS | 11:45-12:00 | R.B.M. Mapeo et al.: GEOCHEMISTRY, GEOPHYSICS AND RADIOGENIC ISOTOPE STUDY OF MESOPROTEROZOIC IGNEOUS ROCKS OF NORTHERN BOTSWANA: IMPLICATIONS FOR THE EVOLUTION OF THE WESTERN BOTSWANA RIFT DURING THE KIBARAN OROGENY | 12:00-12:15 | | 12:00-12:15 | S.F. Mkhathshwa et al.: ASSESSMENT OF THE REGIONAL MINERALOGICAL VARIABILITY OF THE UETA, A1 AND A5 REEFs AT RAND URANIUM PROPERTIES, COOKE SECTION, USING MLA-BASED AUTOMATED MINERALOGY. | 12:15-12:30 | K. Regenauer-Lieb: GEODYNAMICS: MODELLING OF LARGE SCALE PROCESSES (UNESCO IGCP 557) |
| 12:15-12:30 | Roig, J.Y. et al.: AUTOCHTHONOUS GREENSTONE BELTS OF MADAGASCAR: IMPLICATION FOR THE NDIJAN LINK IN NEOARCHAIC TIMES | 12:00-12:15 | P. Nex and J. Kinnaird: SYNCHRONOUS POST-COLLISIONAL MINERALIZATION AND FAR-FIELD KIMBERLITE EMPLACEMENT IN SOUTHERN AFRICA. Nex & Kinnaird | | | 12:15-12:30 | J.A. Kinnaird et al.: GEOMETALLURGY OF TWO MAJOR URANIUM DEPOSIT TYPES - A QEMSCAN STUDY | | |

12:30 13:30 Lunch Break

| S 3.1 + 3.2 - continued | | S 3.5 - continued | | S2: Palaeontology, Anthropology, Paleoclimatology and Human Evolution in Africa. A tribute to Prof. P. V. Tobias. Chair: F. Thackeray | | S 14 - continued | | S 4.3 - continued | |
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| <p>L. Saha et al.: A PALAEOARCHAIC HIGH PRESSURE METAMORPHIC EVENT FROM SE KAAPVAL CRATON</p> | | <p>M. Heilbron et al.: COMPARATIVE TECTONIC EVOLUTION OF RIBEIRA BELT, SE BRAZIL WITH WESTERN AFRICAN COUNTERPARTS</p> | | <p>L. Berger: THE DISCOVERY OF THE NEW HOMININ SPECIES AUSTRALOPITHECUS SEDIBA FROM THE MALAPA SITE, SOUTH AFRICA</p> | | <p>A. Lombard and W.P. Thompson: RARE EARTH ELEMENT MINERALOGY: SEEING IS BELIEVING</p> | | <p>J.M. Batumike et al.: KIMBERLITES FROM D.R. CONGO: MANTLE STRUCTURE AND DIAMOND POTENTIAL</p> | |
| 13:30-13:45 | | 13:30-14:00 | S. Block and J.-F. Moyen: THE MURCHISON GREENSTONE BELT, SOUTH AFRICA: ACCRETED SLIVERS WITH CONTRASTING METAMORPHIC CONDITIONS | 13:30-14:00 | K.J. Carlson et al.: RECONSTRUCTION AND SIGNIFICANCE OF THE ENDOCAST OF AUSTRALOPITHECUS SEDIBA (MH1) | 13:30-13:45 | S.J. Theron and K. Duarte: BENCH SCALE EVALUATION OF HEAVY MINERAL SAND DEPOSITS: AN EASY BUT TRICKY AFFAIR. | 13:30-13:45 | M.E. Allity et al.: CHROMITE, MG-ILMENITE AND PIRIDERITE AS INDICATORS MINERALS OF DIAMONDFEROUS CRETACEOUS KIMBERLITES AND LAMPROITES FROM CÔTE D'IVOIRE (WEST AFRICA). |
| 13:45-14:00 | D.Y. Liu, A. Hofmann et al.: THE NONDWENI GREENSTONE BELT: A PALAEOARCHAIC SUPRACRUSTAL TERRAIN OF THE SOUTHEASTERN KAAPVAL CRATON | 14:00-14:15 | D. Friel et al.: CONSTRAINTS ON PROVENANCE, STRATIGRAPHIC CORRELATION AND STRUCTURAL CONTEXT OF THE VOLTA BASIN, GHANA, FROM DETRITAL ZIRCON GEOCHRONOLOGY: AN AMAZONIAN CONNECTION? | 14:00-14:15 | R.J. Clarke: A MINE OF INFORMATION: STRATIGRAPHY AND DATING OF THE STERKFOONTEIN CAVES | 14:00-14:15 | D. Chetty et al.: 3D COMPUTED TOMOGRAPHY AS A TOOL FOR ORE CHARACTERISATION IN PROCESS MINERALOGY | 14:00-14:15 | B.G. Richards et al.: THE KOLO KIMBERLITE: CHARACTERIZING THE COMPOSITION AND GENESIS OF THE DIAMONDFEROUS LITHOSPHERIC MANTLE USING CRATON MARGIN KIMBERLITES |
| 14:00-14:15 | D. Cornelli et al.: DWYKA COBBLES REVEAL ARCHAIC BASEMENT BENEATH THE KALAHARI SANDS | 14:15-14:30 | S. Master et al.: SEDIMENTOLOGY AND AGE OF THE CRYOGENIAN TAGHOUDT GROUP (ANTHATLAS, MOROCCO) | 14:10-14:30 | A.G. Morris: THE HOFMEYR HUMAN CRANIUM AND THE ORIGIN OF THE KHOESAN | 14:10-14:30 | R. Ghavami-Riabi and H.F.J. Theart: INVESTIGATION OF MINERAL GEOCHEMISTRY PATTERN ADJACENT TO THE ORE ZONE IN VHMS DEPOSIT | 14:10-14:30 | M. Pivin et al.: Fe ³⁺ /Fe RATIOS IN GARNET AND CLINOPIROXENE MEGACRYSTS FROM D.R.C. KIMBERLITES |
| 14:10-14:30 | V. van Schijndel and D. Cornelli: THE REBOBOTH PROVINCE: A BURIED CRATON IN SOUTHERN AFRICA | 14:30-14:45 | R. Couéffé, C. Delor et al.: THE KAFORIF (SEGOU GROUP, SENEGAL) AND RELICS OF WEST-AFRICAN POST-BIRMIAN VOLCANISM | 14:30-14:45 | K. Houghton and J.F. Thackeray: MORPHOMETRIC COMPARISONS BETWEEN CRANIA OF LATE PLEISTOCENE HOMO SAPIENS FROM BORDER CAVE (BC 1) AND TUNPLAAS (TP 1), SOUTH AFRICA. | 14:30-14:45 | S. Carroulé and F. Uri: CHARACTERIZATION OF UNEXPECTED KAOLINITE AT THE BOTTOM OF THE ATHABASCA BASIN | 14:30-14:45 | K.S. Viljoen et al.: PERIODOTIC DIAMOND GENESIS AT PREMIER AND FINSCH, SOUTH AFRICA: THERMAL AND METASOMATIC INFLUENCES |
| 14:30-14:45 | M.B. Klausen et al.: PETROGENESIS OF MAFIC FEEDER DYKE SWARMS TO 3 LARGE IGNEOUS PROVINCES. | 14:45-15:00 | C. Delor et al.: THE GHANA BELT: MILESTONE OF VARISCAN EVENT ALONG TOGO PANAFRICAN BELT | 14:45-15:00 | R.B. Owen and R.W. Renaut: PLEISTOCENE ENVIRONMENTAL CHANGE IN THE OLOROGESALIE BASIN, KENYA RIFT VALLEY | 14:45-15:00 | R. Ghavami-Riabi and H.F.J. Theart: SIGNATURE OF THE MINERALIZATION IN THE CALCRETE REGOLITH | 14:45-15:00 | W.P. Colliston and H. Sommer: SUBAQUEOUS FLUID AND THE RELATIONSHIP WITH CONTINENTAL LITHOSPHERE AND KIMBERLITE MELT (UNESCO IGCP 557) |
| 14:45-15:00 | B.C. Chisonga et al.: NEW PRECISE SHRIMP U-PB TITANITE AGES FROM THE THABAZIMBI SILLS AND FROM DOLEIRITES AT THE SISHEN MINE | 15:00-15:15 | C. Delor et al.: EAST-SENEGAL DOLERITE DYKE SWARMS: RECORD OF MULTISTAGE MESOPROTEROZOIC MAGMATISM | 15:00-15:15 | D. Flettman, J.D. Kramers et al.: A RECORD OF MONSOON RAINFALL PERIODS IN CHINA AND YEMEN BACK TO 350,000 YEARS AND IMPLICATIONS FOR HOMOININ MIGRATION | | | 15:00-15:15 | J.M. Huizenga et al.: DIAMOND PRECIPITATION FROM METHANE-RICH FLUIDS IN THE KAAPVAL LITHOSPHERIC MANTLE: THERMODYNAMIC CONSTRAINTS |
| 15:00-15:15 | R.J. Thomas et al.: THE EASTERN MARGIN OF THE TANZANIAN CRATON IN THE DODOMANIPAN AREA: PRELIMINARY FINDINGS | 15:15-15:30 | E. Njongfang and V. Ngako: GEOMETRY AND P-T CONDITIONS IN A SEGMENT OF THE CENTRAL CAMEROON SHEAR ZONE. | 15:15-15:30 | J. Dodson and P. Athan: STABLE ISOTOPES AND HUMAN IMPACTS IN LANDSCAPE TRANSFORMATION | | | 15:15-15:30 | H. Sommer et al.: WEERTMAN CRACKS AND THE FAST EXTRACTION OF DIAMONDS FROM THE EARTH'S MANTLE WITH A SPEED OF ABOUT 800 KM/H (UNESCO IGCP 557) |
| 15:15-15:30 | G.S. De Kock et al.: ZIRCON AGES FROM THE NAMUWAZA AND BWEZIGORONGUNGA PLATEAU SEQUENCES, UGANDA. | 15:30-15:45 | B. Kankou et al.: KINEMATIC STRAIN PARTITIONING IN TRANSPRESSIONAL OROGEN: AN AMS FABRIC STUDY FROM THE NEOPROTEROZOIC SOUTHERN MBERÉ AND DJEREM HIGH STRAIN ZONE, CENTRAL CAMEROON. | | | | | | |
| 15:45-16:00 | D. Thiéblemont et al.: SYNCHRONOUS BIF. HT METAMORPHISM AND GRANITIC PLUTONISM AT CA. 2.9 GA IN GABON | 15:45-16:00 | S. Master et al.: STABLE ISOTOPE GEOCHEMISTRY OF THE OUAÏAGOUNA DOLOMITE, GOURMA BELT, E. MALI | | | | | | |

16:30-17:00 (Auditorium) Plenary talk by P. Tobias: Human Evolution

| D les 103 | | D les 201 | | D les 202 | | D les 203 | | D les 204 | |
|------------------------------------|---|--------------------------|---|--|--|---|---|--|--|
| S 3.1 and S 3.2 - continued | | S 3.5 - continued | | S 9 The Congo basin: its origin, evolution and resources. Memorial Symposium in the honour of Prof. L. Cahen & H.A.-B. Kampunzu. Chairs: M.J. de Wit, M.C. De Wit, M. Fernandez-Alonso, F. Gullocheau | | S 11 Geophysics & Tectonophysics. Chairs: T. Afa, M. Manzi, T.D. Khoza | | Young Earth Scientists (YES)-Africa symposium. Chair: E. Ntshonjira | |
| 8:30-8:45 | L.C. Da Silva et al.: ON THE AMALGAMATION AND DISPERSION OF THE SAO FRANCISCO-CONGO PALEOCONTINENT | 8:30-8:45 | M. Wendorff et al.: SILICICLASTIC SHELF SUCCESSION OF THE TSOLOLO HILLS GROUP, NW BOTSWANA | 8:30-8:45 | M.J. de Wit, F. Gullocheau, M.C. de Wit and M. Fernandez: INTRODUCTION AND OVERVIEW OF THE CONGO BASIN | 8:30-8:45 | | 08:00-08:30 | OPENING CEREMONY |
| 08:45-09:00 | E.L. Klein: PALEOPROTEROZOIC EVOLUTION OF THE SAO LUIS CRATON AND GURUPU BELT, BRAZIL | 08:45-09:00 | M. Wendorff and R. Key: SEDIMENTATION OF THE GRAND CONGLOMERATE (NEOPROTEROZOIC) AND IMPLICATIONS FOR RIFTING AND THE SNOWBALL EARTH MODEL IN CENTRAL AFRICA | 08:45-09:00 | M. Fernandez-Alonso et al.: THE PROTEROZOIC HISTORY OF THE PROTOKONGO CRATON OF CENTRAL AFRICA | 08:30-09:00 | DEEP GRAVITY - LONG WAVELENGTHS AND MEASURED MOHO Webb | | |
| 09:00-09:15 | E.P. Oliveira et al.: PROTEROZOIC GREENSTONE BELTS OF THE S.FRANCISCO CRATON, BRAZIL, AS OCEANIC ARCS | 09:00-09:15 | M.L. Kipata et al.: BRITTLE FAULTING, CO-CU-SULPHIDE REMOBILIZATION AND TECTONIC STRESS IN THE LUFILAN ARC AND ITS FORELAND (KATANGA, D.R.CONGO) | 09:00-09:15 | F. Delpomdor et al.: MESO- AND NEOPROTEROZOIC PALEOENVIRONMENTS OF THE MBUJIMANI SUPERGROUP, DRC | 09:00-09:15 | P. Cole et al.: DATA INTEGRATION USING CLUSTER ANALYSIS: DEVELOPMENT OF A USER FRIENDLY PLATFORM | | |
| 09:15-09:30 | H. Théveniaut et al.: PALEOPROTEROZOIC EVOLUTION OF WESTERN SENEGAL (PASM MAPPING PROJECT) | 09:15-09:30 | L. Tack, M. Fernandez-Alonso et al.: THE "KIBARAN BELT" OF CENTRAL AFRICA: WHAT'S IN A NAME? | 09:15-09:30 | A. Preat et al.: STABLE ISOTOPE OF OXYGEN AND CARBON COMPOSITIONS IN THE NEOPROTEROZOIC OF GABON | 09:15-09:30 | M. Manzi et al.: INTERPRETATION OF 3-D REFLECTION SEISMIC DATA FROM WITWATERSRAND GOLDFIELDS | 08:30-10:00 | ORAL PRESENTATIONS - SESSION 1: EARTH'S RESOURCES AND SUSTAINABLE DEVELOPMENT OF AFRICA <small>(Note: the YES Symposium cannot follow the rest of the conference because it is synchronized with other localities in the world via satellite link. Times shown in red do not correspond horizontally to rest of programme).</small> |
| 09:30-09:45 | I. Barrotoux et al.: FROM VOLCANIC ARCS TO CONTINENTAL CRUST: TECTONIC EVOLUTION OF WESTERN BURKINA FASO DURING EBURNIAN OROGENESIS (~2.2-2.0 GA) | 09:30-09:45 | L. Tack, M. Fernandez-Alonso et al.: THE 1375 MA "KIBARAN EVENT" IN CENTRAL AFRICA: PROMINENT EMPLACEMENT OF BIMODAL MAGMATISM UNDER EXTENSIONAL REGIME | 09:30-09:45 | H.A. Jelsma et al.: SHRIMP U-PB ZIRCON GEOCHRONOLOGY OF BASEMENT ROCKS OF THE ANGOLAN SHIELD, WESTERN ANGOLA | 09:30-09:45 | D. Eberle et al.: CLUSTERING GEOPHYSICAL DATA FROM NORTH MOZAMBIQUE FOR PEGMATITE RECONNAISSANCE | | |
| 09:45-10:00 | M. Jessell: THE SEFWI-COMOÉ BELT GHANA/WORY COAST - A MAJOR CRUSTAL SHEAR ZONE? | 09:45-10:00 | M.C. Góncioğlu et al.: HOW TO CLASSIFY THE LATE NEOPROTEROZOIC MAGMATISM IN DIVERSE ALPINE TERRANES IN ANATOLIA - CADOMIAN OR PAN-AFRICAN | 09:45-10:00 | S.H. Ferritt et al.: PALEOPROTEROZOIC SEDIMENTATION AND TECTONISM ALONG THE LUCAPA FRACTURE ZONE, ANGOLA | 09:45-10:00 | R.J. Thomas and K.M. Goodenough: DIGITAL GEOLOGICAL MAPPING AT THE BRITISH GEOLOGICAL SURVEY: THE "SIGMA MOBILE" SYSTEM | | |
| 10:00-10:15 | de Kock, G.S. Et al.: SHRIMP AGES FOR THE BIRIM SUPERGROUP, WESTERN GHANA. | 10:00-10:15 | N. Nakano and Y. Osanai: ECOLIGITE-FACIES RELICTS IN ULTRAHIGH-TEMPERATURE SAUITES FROM THE RED RIVER SHEAR ZONE, VIETNAM | 10:00-10:15 | D. Delvaux et al.: INTRACRATONIC EVOLUTION AND TECTONIC STRESS IN THE CONGO BASIN | 10:00-10:15 | J. Ebbing et al.: USE OF SATELLITE GRAVITY DATA FOR GEOLOGICAL MAPPING - EXAMPLES FROM NORTHERN AFRICA | | |
| 10:15-10:30 | S. Perrouy et al.: STRUCTURAL EVOLUTION OF THE ASHANTI BELT, GHANA, IMPLICATIONS FOR AU DEPOSITS | 10:15-10:30 | N. Egesi and V. Ukaegbu: TRACE AND RARE EARTH ELEMENT GEOCHEMICAL FINGERPRINTS ON THE PETROGENESIS AND GEOTECTONICS OF THE ENDERBITE-ADAMELITE GRANITE COMPLEX IN PARTS OF BANSARA (SHEET 304 NE AND SE), SOUTHEASTERN NIGERIA. | 10:15-10:30 | E. Kadima et al.: SALT TECTONICS IN THE CONGO BASIN: 2-D SEISMIC AND POTENTIAL FIELD CONSTRAINTS | 10:15-10:30 | V. Metelka et al.: REGOLITH LANDFORM MAPPING IN WESTERN BURKINA FASO, USING AIRBORNE GEOPHYSICS AND REMOTE SENSING DATA IN A NEURAL-NETWORK | 10:00-10:30 | break |

10:30-11:00 Coffee Break

| S 3.1 and S 3.2 - continued | | S 1 - The nature and significance of the Pan-African orogeny and the relationships of alkaline ring complexes to orogenies. Memorial Symposium in Honour of Prof R. Black. Chairs: P. Bowden, A. Mogessie | | S 9 - continued | | S 11 - continued | | YES-Africa - continued | |
|-----------------------------|--|---|--|-----------------|--|------------------|--|------------------------|--|
| 11:00-11:15 | de Kock, G.S. Et al.: STRUCTURAL FEATURES FROM THE BOLÉ-NAVONONGO BELT AND MALUVE BASIN, GHANA. | 11:00-11:10 | P. Bowden (Introduction to the sessions): THE NATURE AND SIGNIFICANCE OF THE PAN-AFRICAN OROGENY AND THE RELATIONSHIPS OF ALKALINE RING COMPLEXES TO OROGENIES. MEMORIAL SYMPOSIUM IN HONOUR OF PROF R. BLACK. | 11:00-11:30 | E.M. Roberts et al.: MESOZOIC - EARLY CENOZOIC SEDIMENTARY COVER SEQUENCES IN THE KASAI REGION OF THE CONGO BASIN | 11:00-11:15 | H. Théveniaut and B. Clarke: SUSCEPTIBILITY MEASUREMENTS AS A TOOL FOR GEOLOGICAL MAPPING PROXY | | |
| 11:15-11:30 | de Kock, G.S. Et al.: GEOCHEMISTRY AND TECTONIC SETTING OF MAGMATIC ROCKS FROM WESTERN GHANA | 11:10-11:30 | A. Mogessie et al.: REMEMBERING RUSSELL BLACK - A TRUE AFRICAN GEOLOGIST | 11:30-11:45 | E. Kadima et al.: SUBSIDENCE AND CRUSTAL STRUCTURE OF CONGO BASIN | 11:15-11:30 | T.D. Khoza et al.: ELECTROMAGNETIC EVIDENCE OF HIGH ANGLE CONVERGENCE BETWEEN CONGO AND KALAHARI CRATONS | | |
| 11:30-11:45 | A.H. Wilson: THE VOLCANIC ROCKS OF THE PONGOLA SUPERGROUP: A RE-EVALUATION OF THEIR TECTONIC SETTING | 11:30-12:00 | M. Wendorff: SYN-RIFT AND SYN-OROGENIC MÉLANGES AS INDICATORS OF PAN-AFRICAN EVOLUTION IN THE LUFILAN BELT, CENTRAL AFRICA | 11:45-12:00 | U. Glasmacher et al.: SUBSIDENCE/ INVERSION OF THE CONGO BASIN, BY FISSION-TRACK - (U-Th-Sm)/He DATA | 11:30-11:45 | W.W. Hastie et al.: PROBLEMS ASSOCIATED WITH INTERPRETING MAGMATIC FABRICS | 10:30-13:00 | ORAL PRESENTATIONS - SESSION 2: (CONTINUATION OF SESSION 1) EARTH'S RESOURCES AND SUSTAINABLE DEVELOPMENT OF AFRICA <small>(Times shown in red do not correspond horizontally to rest of programme)</small> |
| 11:45-12:00 | C.R. Anhaeusser: ARCHAIC KAMATITIC AND SEDIMENTARY CYCLICITY, SCHAPENBURG (SGB), SOUTH AFRICA | 12:00-12:15 | K. Goodenough et al.: POST-COLLISIONAL PAN-AFRICAN MAGMATISM: MADAGASCAR AND BEYOND | 12:00-12:15 | N. Kanda et al.: THE 1000M THICK REDBEDS SEQUENCE OF THE CONGO RIVER BASIN (CRB): A GENERALLY OVERLOOKED TESTIMONY IN CENTRAL AFRICA OF POST-GONDWANA AMALGAMATION (550 Ma) AND PRE-KAROO BREAK-UP (320Ma) | 11:45-12:00 | L. Hoyer et al.: THE ANALYSIS OF AGENOR LINEA ON THE SURFACE OF EUROPA | | |
| 12:15-12:30 | B. Cavallazzi et al.: HRTEM CHARACTERIZATION OF CA-CARBONATE NANOPHASES IN A 3.334 GA-OLD MICROBIAL MAT, BARBERTON GREENSTONE BELT, SOUTH AFRICA | 12:15-12:30 | B.N. Ekwueme: THE PAN AFRICAN TECTONOTHERMAL EVENT OF SOUTH EASTERN NIGERIA, A REVIEW | | | | | | |

12:30-13:30 Lunch Break

| S 3.4 Layered Mafic Intrusions and the Enduring Enigma of the Bushveld Complex. Chairs: C. Hutton, J. Kinnaird | | S 1 - continued | | S 9 - continued | | YES-Africa - continued | | | |
|--|--|-----------------|---|-----------------|---|------------------------|--|-------------|--|
| 14:00-14:30 | A.J. Naldrett et al.: HOW DID THE BUSHVELD CHROMITITES FORM?: A PROPOSED SOLUTION WITH THE HELP OF "MELTS" | 14:00-14:15 | B. Bingen et al.: RELATIONS BETWEEN EAST AFRICAN (740-600 MA) AND KUUNGA (570-530 MA) OROGENIES IN NE MOZAMBIQUE | 14:00-14:15 | T. Flügel et al.: FLUVIAL GEOMORPHOLOGY OF SOUTH-CENTRAL AFRICA DETERMINED FROM RS & GIS | | | | |
| 14:30-14:45 | C. Hutton: MASS BALANCE CONSTRAINTS ON CR AND PGE MINERALISATION IN THE BUSHVELD COMPLEX | 14:15-14:30 | U. Linnemann et al.: U-Pb-LA-ICP-MS AGES OF DETRITAL ZIRCON FROM THE TASSILI OUAN AHAGGAR (ALGERIAN SAHARA) - GEOTECTONIC IMPLICATIONS AND PROVENANCE | 14:15-14:30 | F. Gullocheau et al.: PALEOSURFACES, INCISION AND DEFORMATION OF THE CONGO CUUVETTE DURING CENOZOIC TIMES | | | | |
| 14:45-15:00 | M.N. Khary and J.R. Roberts: GEOCHEMICAL CHARACTERISTICS OF MAFIC DYKES IN THE EASTERN BUSHVELD COMPLEX | 14:30-14:45 | L. Addissin Glosji et al.: LATE PANAFRICAN OROGENIC EVOLUTION OF THE BENIN BASEMENT: AN AMS STUDY OF THE KANDI SHEAR ZONE | 14:30-14:45 | M.C.J. De Wit and E. Thorose: DIAMOND-BEARING GRAVEL ALONG THE LOWER KWANGO RIVER, DRC | | | | |
| 15:00-15:15 | J.R. Olsson et al.: WAS THE EMPLACEMENT OF THE BUSHVELD COMPLEX CONTROLLED BY A 2.7 GA MANTLE PLUME? | 14:45-15:00 | V. Schenk and D. Loose: PAN-AFRICAN UHT METAMORPHISM AND SYNCHRONOUS A-TYPE GRANITIC MAGMATISM AT THE EASTERN BORDER OF THE CONGO CRATON IN UGANDA | 14:45-15:00 | V. Sachse et al.: ORGANIC GEOCHEMICAL INVESTIGATIONS ON PETROLEUM SOURCE ROCK SAMPLES IN THE CONGO BASIN | | | | |
| 15:15-15:30 | R.J. Roberts: ERUPTION OF MAGMA FROM THE UPPER ZONE MAGMA CHAMBER IN THE BUSHVELD COMPLEX: NEW ESTIMATES FROM ZR AND K | 15:00-15:30 | B. Borini: A-TYPE GRANITES AND RING COMPLEXES: A REVIEW | 15:00-15:15 | F.P.D. Cottrell and M.J. de Wit: GEOBIOLOGICAL FINGERPRINTS OF THE KALAHARI OROGENY: LINKING TECTONISM, DRAINAGE AND PHYLOGEOGRAPHY | | | | |
| 15:30-15:45 | W.J. van Blijen & R. Meyer: EXHUMED LOWER CONTINENTAL CRUST - A POSSIBLE EXPLANATION FOR THE ORIGIN OF THE BUSHVELD COMPLEX AND SOME OTHER LAYERED COMPLEXES | 15:30-15:45 | J.P. Bussio et al.: KAROO, LEBOMBO AND FERRAR: A SINGLE PLUME SOURCE? | 15:30-16:00 | J. Braun: CONTINENTAL-SCALE LANDSCAPE EVOLUTION, MANTLE FLOW AND THE CONGO BASIN | | | | |
| | | 15:45-16:00 | P. Bowden and Y. Cottin: SOURCE AND ORIGIN OF AFRICAN A-TYPE MAGMATISM - A TOMOGRAPHIC SOLUTION | | | | | 14:00-16:00 | ORAL PRESENTATIONS - SESSION 3: POST GONDWANA GEODYNAMICS OF AFRICA <small>(Times shown in red do not correspond horizontally to rest of programme)</small> |
| | | | | | | | | 16:00-16:30 | break |
| | | | | | | | | 16:30-18:00 | ORAL PRESENTATIONS - SESSION 4: ENVIRONMENTAL GEOLOGY AND GEOHAZARDS (NATURAL HAZARDS VS. MAN-MADE HAZARDS) <small>(Note: Round table discussions of YES-Africa will take place on Wednesday 12/1, participants please note announcements in sessions and consult organizers)</small> |

Forum "Women in Geoscience (WIG) at CAG23"

KEYNOTE TALK, PRESENTATIONS AND DISCUSSIONS IN THE FRAMEWORK OF SOUTH AFRICAN WOMEN IN SCIENCE AND ENGINEERING (SA-WISE)
(Time shown in red does not correspond horizontally to rest of programme)

08:20-8:50 (Auditorium) Plenary talk by I. Jackson: OneGeology - sharing geological data and know-how

| D les 103 | | D les 201 | | D les 202 | | D les 203 | | D les 204 | |
|--|---|---|---|--|--|--|---|--|---|
| S 3.4 Layered Mafic Intrusions and the Enduring Enigma of the Bushveld Complex - continued | | S 3.7 African meteorites & impact craters. Chairs: H. Chennaoui, C. Koeberl | | S 4.6 Seismotectonics and seismic hazards in Africa. Chair: M. Meghraoui. To be followed by a business meeting | | S 16 Developing Geoscience Education in Africa: Integrating schools, tertiary institutions and informal settings. Chair: I. McKay. Discussion session in afternoon | | S 8.3 Geohydrology: groundwater resources, water chemistry, merged with S 10. Environmental Geology and Geohazards. Chairs: T. Davies, C. Hartnady | |
| 09:00-09:30 | A.H. Wilson: EARLY MAGMA EMPLACEMENT STAGES OF THE BUSHVELD COMPLEX AND GREAT DYKE | 09:00-09:30 | A.H. Chennaoui: METEORITES IN AFRICA: A GEM OF HERITAGE TO PRESERVE AND A SCIENTIFIC RICHNESS | 09:00-09:15 | M. Meghraoui: THE SEISMOTECTONIC CHARACTERISTICS OF THE AFRICAN PLATE: A CORNERSTONE FOR A REALISTIC SEISMIC HAZARD ASSESSMENT | 09:00-09:30 | S. Gaines and F. Totter: UNESCO KEYNOTE: EARTH SCIENCE EDUCATION IN AFRICA | 09:00-09:15 | D. Blake et al.: EXPLORATORY DRILLING RESULTS FROM THE TGM AQUIFERS, SOUTHWESTERN CAPE, SOUTH AFRICA |
| 09:30-09:45 | R. Shlembe: THE BUSHVELD COMPLEX CONTACT METAMORPHIC AUREOLE WEST OF PLANESBERG COMPLEX | 09:30-09:45 | A. Barakat: METEORITE IMPACT SITES IN EGYPT: A REVIEW | 09:15-09:45 | R. Pinho and M. Pagnin: GLOBAL EARTHQUAKE MODEL: HAZARD GLOBAL COMPONENTS STATUS AND OUTLOOK | 09:30-10:00 | I. McKay: ICEO WORKSHOP REPORT: BUILDING CAPACITY IN GEOSCIENCE EDUCATION IN THE DEVELOPING WORLD | 09:30-09:45 | C.J.H. Hartnady et al.: MONITORING AND TEST-PUMPING IN THE DAGOS PROJECT AREA, QUIDTSHOORN, WESTERN CAPE |
| 09:45-10:00 | J.A. Kinnaird et al.: AN OVERVIEW OF THE PLATREEF, BUSHVELD COMPLEX | 09:45-10:00 | C. Koeberl: LIBYAN DESERT GLASS: FORMATION BY METEORITE IMPACT OR AIRBURST? | 09:45-10:00 | A. Ayale: SEISMICITY OF THE EAST AFRICAN RIFT SYSTEM | 10:00-10:15 | Th. Schluter: GEOSCIENCES AT AFRICAN UNIVERSITIES - DEFICIENCIES AND POSSIBLE REMEDIES | 09:45-10:00 | B.S. Mapani et al.: AN INVESTIGATION OF AQUIFER PROPERTIES IN THE NAUKLUIT MOUNTAIN AREA OF SW NAMIBIA |
| 10:00-10:15 | C.D.K. Gaurert and C.T. Mohase: GENETIC ASPECTS OF THE PGE-BEARING MG CHROMITITE LAYERS OF THE BUSHVELD COMPLEX - PGE ORE BODIES OF THE FUTURE? | 10:00-10:15 | C.R. Anhaeusser et al.: A POSSIBLE MESOARCHAIC METEORITE IMPACT OCCURRENCE AT SETLAGOLE, SOUTH AFRICA | 10:00-10:15 | N. D'Oreye et al.: THE 2008 SEISMIC CRISIS IN THE SOUTHERN KIVU BASIN (DR CONGORWANDA) | 10:15-10:30 | D.J. Lapworth et al.: TECHNICAL ASSISTANCE IN NIGERIA - DEVELOPING GEOSCIENCE SKILLS FOR TOMORROW | 10:00-10:15 | M.A. Lumu: ORIGINE DE LA MINERALISATION DANS LA NAPPE SUPERFICIELLE DU BASSIN VERSANT DE LA RIVIERE LUBUMBASHI |
| 10:15-10:30 | L.M. Theron et al.: Cu-Ni-Fe MONO-SULPHIDE PHASE RELATIONS AT 1 ATM | 10:15-10:30 | T. Mohr, Westheide and W.U. Reimold: PSEUDOTACHYLITIC BRECCIA FORMATION AT VREDEFORT REVISITED | 10:15-10:30 | L.S.N. Kalindakele: SEISMICITY IN MALAWI | | | 10:15-10:30 | C. Muszkiwa and L. Chevallier: SPATIAL DATA MINING TECHNIQUES FOR GROUNDWATER SUSTAINABILITY AT CATCHMENT SCALE |

10:30-11:00 Coffee Break

| S 3.4 - continued | | S 3.7 - continued | | S 4.6 - continued | | S 16 - continued | | S 8.3 and S 10, continued | |
|-------------------|---|-------------------|---|-------------------|--|--|--|---------------------------|---|
| 11:00-11:15 | N.C. Steenkamp: RECOGNIZING MAGMATIC CONDUIT DEPOSITS BY GEOLOGICAL SETTING | 11:00-11:30 | COMPARISON OF THE BOSUMTWI IMPACT CRATER, GHANA, AND THE EL'GYGYGYIN IMPACT CRATER, RUSSIA: DEEP DRILLING PROJECTS Koeberl | 11:00-11:15 | S. Harbi et al.: CASE STUDIES OF THE HISTORICAL SEISMICITY OF ALGERIA | 11:00-11:15 | xx. Zawada: TRAINING OF MAPPING GEOLOGISTS | 11:00-11:15 | P.K. Nyalabeze and E. Chirenje: RESULTS OF ELECTRICAL AND ELECTROMAGNETIC DEPTH SOUNDINGS AT SLOAM AND SAGOLE THERMAL SPRINGS, LIMPOPO PROVINCE, SOUTH AFRICA |
| 11:15-11:30 | H. Wabo et al.: PALEOMAGNETISM OF POST-TRANSVAL GILLS AND DYKES IN THE EASTERN KAAPVAAL CRATON | 11:30-11:45 | A. Chennaoui et al.: CATHODOLUMINESCENCE OF SILICA INDICATOR OF THE SHOCK IN METEORITES AND IMPACT CRATERS | 11:15-11:30 | R. Durheim et al.: AFRICAN INVESTIGATIONS OF ACTIVE DEFORMATION AND SEISMIC AND VOLCANIC HAZARD | 11:15-11:30 | J.C. Melgarejo et al.: PROPOSAL FOR THE DEVELOPMENT OF PRACTICAL DEMONSTRATIONS IN MINERALOGY | 11:15-11:30 | J.M. Huizenga: INORGANIC POLLUTION OF SURFACE WATERS IN SOUTH AFRICA: QUANTIFICATION AND CHARACTERISATION |
| 11:30-11:45 | G.H. Grantham et al.: CHEMISTRY AND AGE OF THE TROMPSBURG COMPLEX, FREE STATE, SOUTH AFRICA AND COMPARISONS WITH THE BUSHVELD COMPLEX | 11:45-12:00 | A. Laroussi et al.: SPECIATION DE LA SILICE - COUPLAGE MEB RAMAN ET CATHODOLUMINESCENCE | 11:45-12:00 | D. Benouar and C.J.H. Hartnady: AFRICAN CATALOGUE OF EARTHQUAKES (ACE) | 11:30-11:45 | G.R. Drennan et al.: MATHEMATICS - IS THERE A RELATIONSHIP BETWEEN GEOSCIENCE PERFORMANCE AND MATHEMATICAL COMPETENCE? | 11:30-11:45 | H.C.F. Pretorius et al.: NATURAL RADIONUCLIDES IN GROUNDWATER FROM VAALPUTS, NAMAQUALAND, SOUTH AFRICA |
| 11:45-12:00 | G. Mishra et al.: THE NKOMATI-NI-CU-CO-PGE DEPOSIT, GEOLOGY AND MINERALISATION | 12:00-12:15 | P. Ogilvie et al.: SHOCK PRESSURE BAROMETRY IN THE CORE OF THE VREDEFORT DOME | 12:00-12:15 | S.R.M. Fernandes et al.: PRESENT-DAY KINEMATICS OF MOZAMBIQUE USING CONTINUOUS AND EPISODIC GPS DATA | 11:45-12:00 | Y. Chalal: LA MISE EN PLACE DU SYSTEME L.M.D DANS LES SCIENCES GEOLOGIQUES EN ALGERIE. CAS DE L'USTHB, ALGER | 11:45-12:00 | D.J. Lapworth et al.: FORECASTING THE IMPACT OF CLIMATE CHANGE ON WATER SUPPLIES USING GROUNDWATER RESIDENCE TIMES |
| 12:00-12:15 | M. Tredoux et al.: MICRO-PHASES IN A Ni-RICH ROCK TYPE FROM AN ARCHEAN OPHIOLITE, SOUTH AFRICA | 12:15-12:30 | P. Morel, J.D. Kramers et al.: RHENIUM-OSMIUM DATA FROM SPHERULE BEDS IN THE BARBERTON GREENSTONE BELT AND THE APEX FORMATION, PILBARA CRATON Morel et al | 12:15-12:30 | A. Kijko and A. Smit: PROBABLE MAXIMUM LOSS CALCULATION FOR CAPE TOWN, SOUTH AFRICA | <p>S 16, note: In the afternoon, a workshop and discussion session on geosciences education in Africa will be held in a separate venue, to be announced.</p> <p>Main topics: (1) Geological mapping training, (2) Building a Network of African Earth Science Institutions, (3) Early Education in the Earth Sciences.</p> | | 12:00-12:15 | R.S. Sileo et al.: EVIDENCE OF THREE HIGH MAGNITUDE FLOODING EVENTS IN THE LIMPOPO RIVER FLOOD-PLAIN |
| | | | | | | | | 12:15-12:30 | a. MacDonald, H. Bonsor et al.: MAP OF GROUNDWATER RESILIENCE TO CLIMATE CHANGE IN AFRICA |

12:30-13:20 Lunch Break

13:20-13:50 (Auditorium) Plenary talk by L. Woodfork: TYPE and Earth Science Education in Africa

| S 3.4 - continued | | S 3.6 Metamorphism and metamorphic processes, crustal melting, and the mobile belts of Africa and contiguous parts of Gondwana. Chairs: C. Hauzenberger, J. Reinhardt | | S 4.6 - continued. To be followed by a business meeting in another venue | | S 8.2 Energy Resources: Petroleum, Coal and Uranium. Chairs: L. Vasconcelos, P. Nex | | S 8.3 and S 10, continued | |
|-------------------|--|---|--|--|--|---|---|---------------------------|--|
| 14:00-14:15 | A. Mogessie and H. Helmy: PLATINUM GROUP-MINERAL OCCURRENCES IN ALASKAN TYPE MAFIC-ULTRAMAFIC ROCKS IN NORTH EAST AFRICA (YUBDO, ETHIOPIA & AKAREM, EGYPT) | 14:00-14:30 | J.L.R. Tourret and J.M. Huizenga: GRANULITE SUPER-EVENTS: THE CASE OF PAN-AFRICAN | 14:00-14:15 | M. Belachew et al.: COMPARISON OF DIKE INTRUSIONS IN AN INCIPENT SEAFLOOR SPREADING SEGMENT IN AFAR, ETHIOPIA: SEISMICITY PERSPECTIVES | 14:00-14:15 | S.B. Olobaniyi and J.E. Ogala: MAJOR AND TRACE ELEMENT CHARACTERISTICS OF THE TERTIARY LIGNITE SERIES WITHIN THE OGISHASHASABA FORMATION, SOUTHERN NIGERIA. | 14:00-14:15 | W. Alternann et al.: THE CO ₂ -RICH PRECAMBRIAN ATMOSPHERE AND CO ₂ SEQUESTRATION IN S. AFRICA |
| 14:15-14:30 | I.J. Barrie et al.: ⁴⁰ Ar/ ³⁹ Ar AND FLUID INCLUSIONS STUDY OF THE EMPLACEMENT OF THE FRETOWN COMPLEX, SIERRA LEONE | 14:30-14:45 | C.A. Hauzenberger et al.: CENTRAL TANZANIAN GRANULITES FROM MAKUBIKE: A PTL-STUDY | 14:15-14:30 | V. Midzi: IMPLICATIONS OF COULOMB STRESS CHANGES IN SEISMIC HAZARD ASSESSMENT | 14:15-14:30 | T. Ntholi et al.: LOW ENTHALPY GEOTHERMAL ENERGY PURIFICATION OF ACID MINE DRINKAGE, AND STORAGE OF POTABLE WATER IN THE DEEP GOLD MINES OF SOUTH AFRICA | 14:15-14:30 | D. Blake et al.: COASTAL HAZARD RISK ASSESSMENT FOR PARTS OF THE WESTERN CAPE, SOUTH AFRICA |
| 14:30-14:45 | J. Berger et al.: EMPLACEMENT AND DIFFERENTIATION OF A NEOARCHAIC MAFIC INTRUSION (AMSAGA, MAURITANIA) | 14:45-15:00 | N. Bonifacie et al.: REPEATED OROGENESIS AND OCEANIC CRUST SUBDUCTION IN THE PALEOPROTEROZOIC UBENDIAN BELT, TANZANIA | 14:30-14:45 | A. Ayadi et al.: SEISMOTECTONICS AND SEISMIC HAZARD OF THE ATLAS MOUNTAINS OF NORTH AFRICA | 14:30-14:45 | B. Cavalazzi et al.: SEAFLOOR SEEPAGES, METHANE-RELATED CARBONATE FABRICS AND CLUES FOR THE SEARCH FOR COLD SEEP AND GAS HYDRATE SYSTEMS IN THE GEOLOGICAL RECORD: EXAMPLES FROM NORTH AFRICA | 14:30-14:45 | T.C. Davies and A.O. Solomon: AN INVENTORY OF LANDSLIDES AND ASSOCIATED MASS WASTING EVENTS IN NIGERIA FOR RISK ASSESSMENT AND LAND USE PLANNING |
| 14:45-15:00 | S. Linkermann et al.: SM-ND ISOTOPIC & PGE COMPOSITION OF THE 2.44 GA LAYERED KEMI INTRUSION, FINLAND | 15:00-15:15 | H. Mikite et al.: NEW AREA OF CHARNOKITES AND GRANULITES: OGILI IN NORTH UGANDA | S 4.1 The East African Rift: Tectonics, Volcanism, Geophysics. Chair: G. Mulgeta | | 14:45-15:00 | K. Tadesse: THE ETHIOPIAN RIFT: A NEW HYDROCARBON PROVINCE FOR FUTURE EXPLORATION | 14:45-15:00 | M.S. Njome et al.: LOADING AND STRUCTURAL INSTABILITY AT THE MOUNT CAMEROON VOLCANO, WEST AFRICA |
| | | 15:15-15:30 | P. Horvath, J. Reinhardt and A. Hofmann: HIGH-GRADE METAMORPHISM OF IRONSTONES AND RELATED ROCKS FROM SOUTHWEST SWAZILAND | 15:00-15:15 | D. Delvaux: EAST AFRICAN RIFT KINEMATICS AND STRESS FIELD: GEOLOGICAL & FOCAL MECHANISM DATA | 15:00-15:15 | J.P. Bussio and R.J. Roberts: SILL METAMORPHIC EFFECT: RELATION TO FLOW DYNAMICS AND ORIGIN | 15:00-15:15 | I.A. Oyediran and G.O. Adeyemi: GEOTECHNICAL EVALUATION OF A LOCATION AROUND BADAN, NIGERIA FOR LANDFILL. |
| | | 15:30-15:45 | G.A. Beyjannin et al.: ULTRAHIGH TEMPERATURE METAMORPHISM IN THE NEOARCHAIC SOUTHERN MARGINAL ZONE OF THE LIMPOPO BELT, SOUTH AFRICA | 15:15-15:30 | C.J.H. Hartnady et al.: GPS KINEMATICS OF THE NUBIA-SOMALIA PLATE BOUNDARY IN SOUTHERN AFRICA | 15:15-15:30 | P. Sabelko et al.: CHARACTERISATION OF URANIUM IN THE VAAL REEF OF THE KLERKSDORP GOLDFIELD, WITS BASIN | 15:15-15:30 | T.C. Davies and A.O. Solomon: URBAN GEOLOGY OF LAGOS. PART 1: AIR POLLUTION |
| | | | | 15:30-15:45 | F.U. Bauer et al.: TRACING THE EXHUMATION HISTORY OF THE RWENZORI MOUNTAINS, ALBERTINE RIFT | 15:30-15:45 | A. Oueh-Hemou et al.: MINERALISATIONS URANIFERES: LIEES A LA DISCORDANCE SOCLE PALEO PROTEROZOIQUE COUVERTURE SEDIMENTAIRE PALÉOZOIQUE BASIN DE TN SERINE OUA NAHAGGAR HOGGAR ALGERIE | | |

Friday 14/1

| D les 103 | | D les 201 | | D les 202 | | D les 203 | | D les 204 | |
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| S 8.1 Earth Resources and Sustainable Development of Africa: A Tribute to Prof. M.O. Oyawoye, Chairs: C. Gauret, S. Tadesse | | S 3.6 - continued and start of S 3.3 | | S 4.1 - continued | | S 4.5 - Neotectonics: intraplate seismicity, quaternary-active faults, stress fields. Chairs: M. Andreoli, D. Delvaux, R. Durrheim. | | S 5: Basin analysis, Stratigraphy and the Kaapval Craton. A tribute to Prof N. Beukes | |
| 08:30-09:00 | R.R. Lorge et al.: DIAGENETIC ARSENIAN PYRITE IN CARBONACEOUS SHALES: THE KEY TO GOLD ENRICHMENT IN THE BENDIGO GOLDFIELD, VICTORIA, AUSTRALIA | 08:30-08:45 | D.D. Van Reenen and C.A. Smit: HETEROGENEOUS STRAIN, COMPOSITE D-P-T-4 PATHS AND HIGH-GRADE POLYMETAMORPHISM | 08:30-08:45 | D.M. Wafuza et al.: THE EFFECTS OF FEBRUARY 3rd, 2008 EARTHQUAKE IN THE LAKE KIVU BASIN, WESTERN RIFT VALLEY OF AFRICA | 08:30-09:00 | D.A.D. Evans et al.: NEOARCHEAN-PALEOPROTEROZOIC CONTINENTAL RECONSTRUCTIONS | | |
| 09:00-09:15 | M. Dabo and T. Alfa: TECTONIC CONTROL OF GOLD MINERALIZATIONS IN THE BIRIMIAN FORMATIONS OF DALEMA, KEDOUGOU-KENÉBA INLIER, EASTERN SENEGAL | 08:45-09:00 | P. Oghive and R.L. Gibson: IMPACT-INDUCED ULTRAMETAMORPHISM AND EXTREME MELT LOSS IN THE THE VREDEFORT DOME | 08:45-09:00 | D.M. Wafuza: THE IMPACT OF TECTONICS EARTHQUAKES IN WESTERN RIFT VALLEY ON THE VOLCANIC ACTIVITIES OF NYRAGONGO VOLCANO IN THE VIRUNGA REGION | 09:00-09:15 | R. Da Silva et al.: NEW AGE CONSTRAINTS ON THE PALEOPROTEROZOIC GAMAGARAMAPEDI TO LUCKNOW SUCCESSION IN GRIQUALAND WEST: IMPLICATIONS FOR THE TIMING OF FORMATION OF SIBENI-TYPE IRON ORE DEPOSITS AND THE NATURE OF THE LOMANGUDI HEAVY CARBONATE CARBON ISOTOPIC EXCURSION | | |
| 09:15-09:30 | S. Mondlane, Jr.: STRUCTURAL AND LITHOLOGICAL CONTROLS OF GOLD MINERALIZATION IN THE MANICA - MUTARE - ODZI GREENSTONE BELT, WEST MOZAMBIQUE AND EAST ZIMBABWE: FROM DEPOSIT TO BELT SCALE FIELD EVIDENCES | 09:00-09:30 | G. Stevens: THE GENETIC CODE FOR GRANITE | 09:15-09:30 | C. Yye et al.: IDENTIFYING THE RELATIONSHIP BETWEEN VOLCANISM AND RIFTING IN AFAR (ETHIOPIA). | 09:15-09:30 | R.A. Armstrong et al.: ADVANCES IN IN SITU STABLE ISOTOPE STUDIES USING SHRIMP | | |
| 09:30-09:45 | C.D.K. Gauret and S. Roettger: MINERAL PROVENANCE ASPECTS OF THE BLACK REEF CONGLOMERATE IN THE EAST AND (FAR) WEST RAND AREAS | 09:30-09:45 | J. Taylor and G. Stevens: EVIDENCE FOR SELECTIVE ENTRAPMENT OF PERITECTIC GARNET INTO S-TYPE MAGMAS | 09:30-09:45 | D. Tesfaye et al.: PETROGENESIS OF THE SOUTHERN ETHIOPIA RIFT VOLCANICS | 09:30-09:45 | B. Guy et al.: A MULTIPLE-SULFUR AND ORGANIC CARBON ISOTOPE RECORD FROM THE MESOARCHEAN WITWATERSRAND SUPERGROUP, SOUTH AFRICA | | |
| 09:45-10:00 | V. Tibane: CHARACTERISATION OF SULPHIDE MINERALS FROM THE WITWATERSRAND BASIN IN SOUTH AFRICA | 09:45-10:00 | P. Mavimbela et al.: POLY-METAMORPHISM IN THE EASTERN BUSHVELD AUREOLE USING GARNET PORPHYROBLAST PETROGRAPHY AND CHEMISTRY | 09:45-10:00 | S. Foley et al.: PATTERNS AND ORIGIN OF IGNEOUS ACTIVITY AROUND THE TANZANIAN CRATON | 09:45-10:00 | N.J. Beukes et al.: Co ANOMALIES IN ²⁴ Ga IRON AND MANGANESE FORMATIONS AS PROXY FOR OXYGENATION OF OCEANIC ENVIRONMENTS PRIOR TO THE GREAT OXYGENATION EVENT | | |
| 10:00-10:15 | S. Verryn: WAAIKRAAL GOLD DEPOSIT, NORTH-WEST OF BRITS, SOUTH AFRICA | 10:00-10:15 | O. Chevrel, A. Nédélec et al.: PARTIAL MELTING OF ARCHAIC AMPHIBOLITES FROM BARBERTON (SOUTH AFRICA) | 10:00-10:15 | K. Link et al.: PETROLOGICAL SUBRIFT MANTLE PROCESSES IN THE LITHOSPHERE BENEATH THE WESTERN BRANCH OF THE EAST AFRICAN RIFT | 10:00-10:15 | A.J.B. Smith et al.: MANGANESE AS A PALAEOENVIRONMENTAL INDICATOR IN THE MESOARCHEAN WITWATERSRAND-MOZANAN BASIN | | |
| 10:15-10:30 | S. Gebreelassie and R. Marschik: GEOLOGY AND CHARACTERISTICS OF METASEDIMENTARY HOSTED GOLD AND BASE METAL MINERALIZATION IN THE WORKAMBA AREA, NORTHERN ETHIOPIA | 10:15-10:30 | R.T. Ranganai and O. Gwavava: GRAVITY MODELLING OF LATE ARCHAIC CHILIMANZI AND RAZI PLUTONS, ZIMBABWE CRATON | 10:15-10:30 | M.E. De Villiers: UGANDA'S VOLCANOES | 10:15-10:30 | G.M. Teteh and N.J. Beukes: TEXTURAL AND CHEMICAL SIGNATURES OF RECRYSTALLISED MANGANESE CARBONATE AT NSUTA OF THE BIRIMIAN OF GHANA. | | |

10:30-11:30 Coffee Break

| S 8.1 - continued | | S 3.3 TTG and Granitoids, Chair: J.-F. Moyen | | S 7 - Medical Geology, Chair: T.Davies | | S 4.5 - continued | | S 5 - continued | |
|-------------------|---|--|--|--|--|-------------------|---|-----------------|---|
| 11:00-11:15 | J. Gutzmer et al.: ARCHITECTURE AND SIGNIFICANCE OF THE COPPERTON Zn-Cu DEPOSIT, SOUTH AFRICA | 11:00-11:30 | J.D. Clemens and G. Stevens: WHAT CONTROLS CHEMICAL VARIATION IN GRANITIC MAGMAS? | 11:00-11:15 | T.C. Davies: MEDICAL GEOLOGY IN AFRICA | 11:00-11:30 | D. Delvaux et al.: ACTIVE FAULTING IN W-TANZANIA: COUPLING BETWEEN TECTONICS, VOLCANISM & CLIMATE ? | 11:00-11:15 | D.A.D. Evans et al.: NiG BEUKES AND THE RENAISSANCE OF SOUTH AFRICAN PALEOMAGNETISM |
| 11:15-11:30 | N. Chabangu et al.: AN INVESTIGATION OF NICKEL MINERALIZATION IN THE NORTHWESTERN PART OF THE BARBERTON GREENSTONE BELT, SOUTH AFRICA | 11:30-11:45 | F. Farina and G. Stevens: SOURCE CONTROLLED ¹⁸⁷ Sr/ ⁸⁷ Sr ISOTOPE VARIABILITY IN GRANITIC MAGMAS: THE INEVITABLE CONSEQUENCE OF MINERAL-SCALE ISOTOPIC DISEQUILIBRIUM IN THE PROTOLITH | 11:15-11:30 | U.H. Lar: TRACE ELEMENTS AND HEALTH: SOME EXAMPLES FROM NIGERIA | 11:30-11:45 | K. Beryman et al.: GEM FAULTED EARTH: A GLOBAL ACTIVE FAULT AND SEISMIC SOURCE DATABASE | 11:15-11:30 | M.O. de Kock and N.J. Beukes: PALEOMAGNETISM OF A MESOPROTEROZOIC CARBONATE SUCCESSION FROM INDIA. |
| 11:30-11:45 | J. Gouin and M. Billa: PRECAMBRIAN MINERALIZATIONS OF GABON AND SURROUNDING COUNTRIES | 11:45-12:00 | A. Villasos et al.: ISOTOPIC VARIATIONS IN S-TYPE GRANITES: AN INHERITANCE FROM THE SOURCE - EXAMPLE FROM THE CAPE GRANITE SUITE | 11:30-11:45 | M.E. Adiku-Brown: THE GENESIS AND IMPLICATION OF THE CHALCOPHILES DETERMINED IN SOILS OF THE YOUNGER GRANITE PROVINCE, NORTH CENTRAL NIGERIA | 11:45-12:00 | S 4.4 The Kalahari epeirogeny, sedimentary basins and geomorphic evolution, Chair: A. Moore | 11:30-11:45 | D. Frizon de La Motte and C. Raulin: THE REPRESENTATION OF SEDIMENTARY BASINS AND MARGINS IN THE NEW TECTONIC MAP OF AFRICA |
| 11:45-12:00 | K.V. Knights et al.: MULTI-ELEMENT STREAM SEDIMENT GEOCHEMISTRY OF SOUTH-WESTERN AND CENTRAL NIGERIA | 12:00-12:15 | J.D. Clemens et al.: MAGMA SOURCE FOR THE MESOARCHEAN, POTASSIC, HEERENVEEN BATHOLITH | 11:45-12:00 | M.S. Pinto et al.: HEAVY METALS IN ROAD DUSTS OF OPORTO CITY, PORTUGAL - PRELIMINARY DATA | 12:00-12:30 | T. Blenkinsop and A. Moore: EPEIROGENY | 11:45-12:00 | N. Li, M. Frei and W. Altermann: A RULE-BASED LITHOLOGICAL CLASSIFICATION METHOD USING LANDSAT-TM DATA |
| 12:00-12:15 | Okunlola, O.A.: METALLOGENY OF PRECAMBRIAN Ta-Nb PEGMATITES OF NIGERIA | 12:15-12:30 | D.K. Aseidu: GEOCHEMISTRY AND ND-ISOTOPIE STUDIES ON PALEOPROTEROZOIC GRANITIODS FROM THE WINNEBA AREA, SOUTHERN GHANA | 12:00-12:15 | B.D.O. Odhiambo: USE OF SELENIUM IN TEA TO MANAGE HIV/AIDS: GEOMEDICAL IMPLICATIONS IN KENYA | | | 12:00-12:15 | K. Khanouchi et al.: STATISTICAL MODELLING OF SUSPENDED SEDIMENT TRANSPORT IN THE KEBIR DRAINAGE BASIN, ALGERIA |
| 12:15-12:30 | J.C. Ngunye and C.D.K. Gauret: METALLOGENIC ASPECTS OF Sn-W-Nb-Ta (Au) MINERALIZATIONS IN THE MINERAL DEPOSITS OF EASTERN RWANDA | | | 12:15-12:30 | M.L. Diko and G.E. Ekosse: PHYSICO-CHEMISTRY, MINERALOGY AND GEOCHEMISTRY OF SELECTED GEOPHAGIC SOILS FROM CAMEROON AND SOUTH AFRICA | | | 12:15-12:30 | V. Nxumalo: THE SEDIMENTOLOGY OF THE KAROO SUPERGROUP IN THE GEMSBOK SUB-BASIN |

12:30-13:20 Lunch Break

13:20-13:50 (Auditorium) Plenary talk by J. Centeno: Health and Earth - Medical Geology: Building a Safer Environment

| S 8.1 - continued | | S 3.3 - continued | | S 7 - continued | | S 4.4 - continued | | S 5 - continued | |
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| 14:00-14:15 | C. Burtel et al.: HETEROGENEITY CHARACTERISATION BY RAMAN MICROSCOPY (KATANGA, DRC) | 14:00-14:30 | J.-F. Moyen and H. Martin: FORTY YEARS OF TTG RESEARCH | 14:00-14:15 | G. Tanyileke et al.: CO ₂ -RELATED DEATHS ALONG THE CAMEROON VOLCANIC LINE (CVL) | 14:00-14:15 | R.W. Brown et al.: UPLIFTING SOUTHERN AFRICA: WHEN, HOW AND WHY DID THIS HAPPEN? | 14:00-14:15 | S. Diskin and M. Wendorf: SOUTHERN BOTSWANA'S ECCA AND BEAUFORT GROUPS - WHERE DID THEIR SEDIMENTS COME FROM? |
| 14:15-14:30 | L. Coney and A.V. Mola: A COMBINED FORENSIC APPROACH TO DISCRIMINATING DIAMONDS | 14:30-14:45 | A. Laurin and G. Stevens: ARCHAIC TTG FORMATION BY WATER-PRESENT ECOLGITE MELTING | 14:15-14:30 | T.K. Mlambo et al.: CO ₂ GEOLOGICAL SEQUESTRATION: IMPROVED RESERVOIR INTEGRITY VIA CARBONATISATION | 14:15-14:30 | P.C. Hackspacher et al.: TECTONIC CONTRAST BETWEEN THE SOUTH ATLANTIC MARGINS: LOW TEMPERATURE GEOCHRONOLOGY ALONG PROFILES AT SOUTHEAST BRAZIL AND ANGOLA | 14:15-14:30 | B. Van der Walt et al.: POSSIBLE POST-PERMIAN DIATREME ACTIVITY IN THE N-E KAROO BASIN, SOUTH AFRICA. |
| | | | | 14:30-14:45 | S. Kebede: THE LINKAGE BETWEEN GEONENVIRONMENTAL SETTING AND HUMAN HEALTH IN ETHIOPIA: A GEOENVIRONMENTAL-HEALTH MODEL | 14:30-14:45 | F. Gullochau et al.: MESO-CENOZOIC GROWTH OF THE SOUTH AFRICAN PLATEAU: STRATIGRAPHIC CONSTRAINTS FROM ITS EASTERN MARGIN | 14:30-14:45 | M. Peché et al.: THE MODERN SEDIMENTARY ENVIRONMENTS AND GEOLOGICAL UNITS OF INHACA AND PORTUGUESE ISLAND |
| | | | | 14:45-15:00 | Discussion session (open ended) | 14:45-15:00 | D. Rouby et al.: THE POST RIFT EVOLUTION OF THE NAMIBIA-SOUTH AFRICA PASSIVE MARGIN: VERTICAL MOVEMENTS, RELIEF VARIATIONS, DENUDATION AND SEDIMENTARY SUPPLY | | |
| | | | | | | 15:00-15:15 | A. Moore et al.: ON A ROLL, EVOLUTION OF THE CENTRAL ZIMBABWE WATERSHED | | |