

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

K = keynote, Inv = invited talk

Monday 10/1

08:30-08:45 Welcome

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

Venue 1		Venue 2		Venue 3		Venue 4		Venue 5	
<p>S 3.1 Archaean to Paleoproterozoic 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: J. Kröner</p>	
09:30-10:00	S. Foley: CRUST-FORMING PROCESSES BEFORE AND DURING THE ADVENT OF CRATONS	09:30-09:45	B. Bingen 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	I. Müntiri et al.: NEW PRECAMBRIAN ROCK AGES FROM UGANDA	09:45-10:00	R.J. Thomas et al.: LATE TECTONIC EVOLUTION OF THE NAMPULA BLOCK, N. MOZAMBIQUE	10:00-10:15	A. Asfawossen: GEOHERITAGES AND GEOTOURISM IN ETHIOPIA	10:00-10:30	J.P.R. De Villiers: PROCESS MINERALOGY: A NECESSITY FOR PROCESS OPTIMIZATION IN THE MINERALS AND METALLURGICAL INDUSTRY	10:00-10:15	N.C. Mukosi et al.: PETROGENESIS OF THE AMBOHIBY COMPLEX MADAGASCAR AND THE ROLE OF THE MARION HOTSPOT
10:15-10:30	V. van Schijndel and D. Cornell: THE REHOBOTH PROVINCE: A BURIED CRATON IN SOUTHERN AFRICA	10:00-10:15	P.H. Macey et al.: MESOPROTEROZOIC EVOLUTION OF THE NAMPULA BLOCK, N. MOZAMBIQUE	10:15-10:30	J. Jacobs et al.: FROM THE PALAEOZOIC COLLAPSE OF THE EAST AFRICAN-ANTARCTIC OROGEN TO GONDWANA RIFTING IN 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	
11:00-11:15	R.J. Thomas et al.: THE EASTERN MARGIN OF THE TANZANIAN CRATON IN THE DODOMAMP/WAPWA AREA: PRELIMINARY FINDINGS	11:00-11:15	H. Fritz et al.: TECTONIC STYLES OF NEOPROTEROZOIC - EARLY PHANEROZOIC EAST AFRICAN OROGENS	11:00-11:15	B. Cairncross: THE POPULARIZATION OF SOUTH AFRICA'S GEOLOGICAL AND MINERAL GEOHERITAGE	11:00-11:15	G. Ona-Nguema: BIOMINERALIZATION OF AS-DOPED MAGHEMITE: IMPLICATIONS FOR ARSENIC SEQUESTRATION	11:00-11:15	E. Njongfang et al.: AN EXAMPLE OF GRANITE-SYENITE SENSE OF DIFFERENTIATION IN A PERALKALINE MELT?
11:15-11:30	R.J. Tucker, J.Y. Roig et al.: NEOPROTEROZOIC EXTENSION IN THE GREATER DHARWAR CRATON: A REEVALUATION OF THE 'BETSIMBARAKA SUTURE' IN MADAGASCAR	11:15-11:30	G. Grantham et al.: ASPECTS OF THE STRUCTURAL EVOLUTION OF BALCHENFJELLA, EAST SØR-RONDANE, ANTARCTICA AND ITS GONDWANA CONTEXT.	11:15-11:30	B. Cairncross: RARE GEOLOGICAL ARTIFACTS - A SOUTH AFRICAN PERSPECTIVE	11:15-11:30	V. Govender et al.: EVALUATION OF FE ORE PARTICLE SHAPE, DENSITY AND SIZE USING MLA TECHNOLOGY TO DETERMINE THEIR INFLUENCE ON GRAVITY SEPARATION METHODS	11:15-11:30	M.S. Njome and M.J. de Wit: THE CAMEROON LINE: CONSTRAINTS, CONTROVERSIES AND MODELS
11:30-11:45	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	11:30-11:45	G. Grantham et al.: PRELIMINARY RESULTS OF METAMORPHIC P-T STUDIES ON EAST SØR-RONDANE, ANTARCTICA	11:30-11:45	J.M. Jansen van Rensburg and M.S. Coetzee: GEOHERITAGE PERTAINING TO GOLDMINES AND GRANITE QUARRIES IN THE VREDEFORT DOME, SA	11:30-11:45	L.L. Coetzee et al.: APPLIED GOLD DEPARTMENT STUDIES		
11:45-12:00	D.A.D. Evans et al.: NEAROECHAN-PALAEOPROTEROZOIC CONTINENTAL RECONSTRUCTIONS	11:45-12:00	R.B.M. Mapeo et al.: GEOCHEMISTRY AND ION MICROPROBE U-PB DATING OF ZIRCONS FROM THE ROIBOK METAMORPHIC COMPLEX IN THE GHANZI-CHOBE BELT, NORTHERN BOTSWANA: IMPLICATIONS FOR THE PAN AFRICAN OROGENESIS IN SOUTHERN AFRICA.	11:45-12:00	ANCIENT COPPER MINE OF GEBEL SAFARIAT, SOUTHWEST SINAI, EGYPT Barakat	11:45-12:00	K. Pillay et al.: MINERALOGICAL EFFECTS ON THE GRAVITY CONCENTRATION OF LOW GRADE SELKIRK NICKEL ORE		
12:00-12:15	D. Cornell et al.: DI'YKA COBBLES REVEAL ARCHAIC BASEMENT BENEATH THE KALAHARI SANDS	12:00-12:15	R.B.M. Mapeo et al.: GEOCHEMISTRY, GEOCRONOLOGY 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	S. Diskin and C. Ashley: CHARACTERISATION OF EARLY BATAWANA POTTERY FROM THE KHWEHILLS OF NORTHERN BOTSWANA: IMPLICATIONS FOR RAW MATERIAL SOURCING.	12:00-12:15	S.F. Mkhathwa et al.: MINERALOGICAL EFFECTS ON THE GRAVITY CONCENTRATION OF LOW GRADE SELKIRK NICKEL ORE		
12:15-12:30	Roig, J.Y. et al.: AUTOCHTHONOUS GREENSTONE BELTS OF MADAGASCAR: IMPLICATION FOR THE INDIAN LINK IN NEAROECHAN TIMES	12:15-12:30	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	
13:30-13:45	B.C. Chignas et al.: NEW PRECISE SHRIMP U-PB TITANITE AGES FROM THE THABAZIMBI SILLS AND FROM DOLERITES AT THE SISHEN MINE	13:30-14:00	M. Halilbron et al.: COMPARATIVE TECTONIC EVOLUTION OF RIBEIRA BELT, SE BRAZIL WITH WESTERN AFRICAN COUNTERPARTS	13:30-13:45	L. Berger: THE DISCOVERY OF THE NEW HOMININ SPECIES AUSTRALOPITHECUS SEDIBA FROM THE MALAPA SITE, SOUTH AFRICA	13:30-13:45	A. Lombard and W.P. Thompson: RARE EARTH ELEMENT MINERALOGY: SEEING IS BELIEVING	13:30-13:45	J.M. Batumike et al.: KIMBERLITES FROM D.R. CONGO: MANTLE STRUCTURE AND DIAMOND POTENTIAL
13:45-14:00	M.B. Klausen et al.: PETROGENESIS OF MAFIC FEDER DYKE SWARMS TO S LARGE IGNEOUS PROVINCES.	14:00-14:15	D. Frei et al.: CONSTRAINTS ON PROVENANCE, STRATIGRAPHIC CORRELATION AND STRUCTURAL CONTEXT OF THE VOLTA BASIN, GHANA, FROM DETRITAL ZIRCON GEOCHRONOLOGY: AN AMAZONIAN CONNECTION?	13:45-14:00	K.J. Carlson et al.: RECONSTRUCTION AND SIGNIFICANCE OF THE ENDOCAST OF AUSTRALOPITHECUS SEDIBA (MH1)	13:45-14:00	S.J. Theron and K. Duarte: BENCH SCALE EVALUATION OF HEAVY MINERAL SAND DEPOSITS: AN EASY BUT TRICKY AFFAIR.	13:45-14:00	M.E. Allity et al.: CHROMITE: IGM-LITERATE AND PRIDERITE AS INDICATORS MINERALS OF DIAMONDFEROUS CRETACEOUS KIMBERLITES AND LAMPROITES FROM CÔTE D'IVOIRE (WEST AFRICA).
14:00-14:15	H. Théveniaut et al.: PALEOPROTEROZOIC EVOLUTION OF EASTERN SENEGAL (PASM MAPPING PROJECT)	14:10-14:30	S.Master et al.: SEDIMENTOLOGY AND AGE OF THE CRYOGENIAN TAGHDOUT GROUP (ANTH-ATLAS, MOROCCO)	14:00-14:15	R.J. Clarke: A MINE OF INFORMATION: STRATIGRAPHY AND DATING OF THE STERKPFONTEIN 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
14:10-14:30	M. Jessell: THE SEFWI-COMOÉ BELT GHANA/IVORY COAST - A MAJOR CRUSTAL SHEAR ZONE?	14:30-14:45	R. Couëffé, C. Delor et al.: THE KAFORFI (SEGOU GROUP, SENEGAL) AND RELICS OF WEST-AFRICAN POST-BIRMIAN VOLCANISM	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
14:30-14:45	I. Barstov et al.: FROM VOLCANIC ARCS TO CONTINENTAL CRUST: TECTONIC EVOLUTION OF WESTERN BURKINA FASO DURING EBURNEAN OROGENESIS (-2.2-2.0 GA)	14:45-15:00	C. Delor et al.: THE GHANA BELT: MILESTONE OF VARISCAN EVENT ALONG TOGO PANAFRICAN BELT	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.: PERIDOTTIC DIAMOND GENESIS AT PREMIER AND FINSCHE, SOUTH AFRICA: THERMAL AND METASOMATIC INFLUENCES
14:45-15:00	S. Perrotty et al.: STRUCTURAL EVOLUTION OF THE ASHANTI BELT, GHANA, IMPLICATIONS FOR AU DEPOSITS	15:00-15:15	C. Delor et al.: EAST-SENEGAL DOLERITE DYKE SWARMS: RECORD OF MULTISTAGE MESOPROTEROZOIC MAGMATISM	14:45-15:00	R.B. Owen and R.W. Renart: PLEISTOCENE ENVIRONMENTAL CHANGE IN THE OLDFERGASIELE 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: SUBANEOUS FLUID AND THE RELATIONSHIP WITH CONTINENTAL LITHOSPHERE AND KIMBERLITE MELT (UNESCO IGCIP 557)
15:00-15:15	D. Thiblémont et al.: SYNCHRONOUS BF ₃ HT METAMORPHISM AND GRANITIC PLUTONISM AT CA. 2.8 GA IN GABON	15:15-15:30	E. Njongfang and V. Ngako: GEOMETRY AND P-T CONDITIONS IN A SEGMENT OF THE CENTRAL CAMEROON SHEAR ZONE.	15:00-15:15	D. Fleitmann, J.D. Kramers et al.: A RECORD OF MONSOON RAINFALL PERIODS IN QHANI AND YEMEN BACK TO 350'000 YEARS AND IMPLICATIONS FOR HOMOININ MIGRATION	15:00-15:15		15:00-15:15	J.M. Huizenga et al.: DIAMOND PRECIPITATION FROM METHANE-RICH FLUIDS IN THE KAMPVAL LITHOSPHERIC MANTLE: THERMODYNAMIC CONSTRAINTS
		15:15-15:30	S. Master et al.: STABLE ISOTOPE GEOCHEMISTRY OF THE OUAÏGOUNA DOLOMITE, GOURMA BELT, E. MALI	15:15-15:30	J. Dodson and P. Aftan: 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 IGCIP 557)

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

Venue 1		Venue 2		Venue 3		Venue 4		Venue 5	
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 Profs. L. Cahen & H.A.-B. Kampunzu. Chairs: M.J. de Wit, M.C. De Wit, M. Fernandez-Alonso, F. Gulloucheau		S 11 Geophysics & Tectonophysics. Chair: T.Aifa		Young Earth Scientists (YES)-Africa symposium. Chair: E. Nkholjira	
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. Wendoff et al.: SLICKCLASTIC SHELF SUCCESSION OF THE TSDILOLO HILLS GROUP, NW BOTSWANA	8:30-8:45	M.J. de Wit, F. Gulloucheau, M.C.J. de Wit and M. Fernandez: INTRODUCTION AND OVERVIEW OF THE CONGO BASIN	8:30-8:45		8:00-8:30	OPENING CEREMONY
08:45-09:00	E.L. Klein: PALEOPROTEROZOIC EVOLUTION OF THE SAO LUIS CRATON AND GURUPI BELT, BRAZIL	08:45-09:00	M. Wendoff and R. Key: SEDIMENTATION OF THE GRAND CONGLOMERAT (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 PROTO CONGO CRATON OF CENTRAL AFRICA	08:30-09:00	DEEP GRAVITY - LONG WAVELENGTHS AND MEASURED MOHO WEBB		ORAL PRESENTATIONS - SESSION 1: EARTH'S RESOURCES AND SUSTAINABLE DEVELOPMENT OF AFRICA (Note: the YES Symposium cannot follow the 15-minute slots and general rhythm of 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.)
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. Kigata et al.: BRITTLE FAULTING, CO-CU-SULPHIDE REMOBILIZATION AND TECTONIC STRESS IN THE LUFILIAN ARC AND ITS FORELAND (KATANGA, D.R.CONGO)	09:00-09:15	F. Delpomdor et al.: MESO- AND NEOPROTEROZOIC PALEOENVIRONMENTS OF THE MBUJUMAYI SUPERGROUP, DRC	09:00-09:15	P. Cole et al.: DATA INTEGRATION USING CLUSTER ANALYSIS: DEVELOPMENT OF A USER FRIENDLY PLATFORM	08:30-10:00	
09:15-9:45	A. Kröner et al.: ORIGIN OF EARLY ARCHAEOAN TONALITIC GNEISSES AND GREENSTONE FELSIC VOLCANIC ROCKS ON THE BASIS OF ZIRCON AGES AND Hf-Nd ISOTOPIC SYSTEMATICS	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. Prikat et al.: STABLE ISOTOPES OF OXYGEN AND CARBON COMPOSITIONS IN THE NEOPROTEROZOIC OF GABON	09:15-09:30	D. Eberle et al.: CLUSTERING GEOPHYSICAL DATA FROM NORTH MOZAMBIQUE FOR PEGMATITE RECONNAISSANCE		
09:45-10:00	C.J.M.G. Sanchez-Garrido et al.: PALEO-ARCHAEOAN GRANITES AND RHVOLITES IN THE PROTO-CONTINENTAL CRUST	09:30-09:45	L. Tack, M. Fernandez-Alonso et al.: THE 1375 MA 'KIBARAN BELT' IN CENTRAL AFRICA: PROMINENT EMPLACEMENT OF BIMODAL MAGMATISM UNDER EXTENSIONAL REGIME	09:30-09:45	H.A. Jelsma et al.: SHRMP U-PB ZIRCON GEOCHRONOLOGY OF BASEMENT ROCKS OF THE ANGOLAN SHIELD, WESTERN ANGOLA	09:30-09:45	R.J. Thomas and K.M. Goodenough: DIGITAL GEOLOGICAL MAPPING AT THE BRITISH GEOLOGICAL SURVEY: THE 'SIGMA MOBILE' SYSTEM		
10:00-10:15	D.Y. Liu, A. Hofmann et al.: THE NONWENI GREENSTONE BELT: A PALAEOARCHAEOAN SUPRACRISTAL TERRAIN OF THE SOUTHEASTERN KAAPVAAL CRATON	09:45-10:00	M.C. Göncüoğlu et al.: HOW TO CLASSIFY THE LATE NEOPROTEROZOIC MAGMATISM IN DIVERSE ALPINE TERRAINES IN ANATOLIA: CADOMIAN OR PAN-AFRICAN	09:45-10:00	S.H. Ferris et al.: PALEOPROTEROZOIC SEDIMENTATION AND TECTONISM ALONG THE LUCAPA FRACTURE ZONE, ANGOLA	09:45-10:00	H. Théveniaut and B. Clarke: SUSCEPTIBILITY MEASUREMENTS AS A TOOL FOR GEOLOGICAL MAPPING PROXY		
10:15-10:30	L. Saha et al.: PALAEOARCHAEOAN HIGH PRESSURE METAMORPHIC EVENT FROM SE KAAPVAAL CRATON	10:00-10:15	N. Nakano and Y. Osanai: ELOGITE-FACIES RELICTS IN ULTRAHIGH-TEMPERATURE BAUXITES 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	N. Egosi 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

Venue 1		Venue 2		Venue 3		Venue 4		Venue 5	
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. Moggessie		S 9 - continued		S 11 - continued		YES-Africa - continued	
11:00-11:15	S. Block and J.-F. Moyen: THE MURCHISON GREENSTONE BELT, SOUTH AFRICA: ACCRETED SLIVERS WITH CONTRASTING METAMORPHIC CONDITIONS	11:00-11:10	P. Bowden (Introduction to the session): 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	M. Manzi et al.: INTERPRETATION OF 3-D REFLECTION SEISMIC DATA FROM WITWATERSRAND GOLDFIELDS		ORAL PRESENTATIONS - SESSION 2: (CONTINUATION OF SESSION 1) EARTH'S RESOURCES AND SUSTAINABLE DEVELOPMENT OF AFRICA (Times shown in red do not correspond horizontally to rest of programme.)
11:15-11:30	A. Zeh et al.: EVOLUTION OF THE KALAHARI CRATON - THE HAFNIUM ISOTOPE PERSPECTIVE	11:10-11:30	A. Moggessie 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	10:30-10:30	
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. Wendoff: SYN-RIFT AND SYN-OROGENIC MELANGES AS INDICATORS OF PAN-AFRICAN EVOLUTION IN THE LUFILIAN BELT, CENTRAL AFRICA	11:45-12:00	U. Gismacher et al.: SUBSIDENCE/ INVERSION OF THE CONGO BASIN, BY FISSION-TRACK (U-Th-Sm) DATA	11:30-11:45	W.W. Hastie et al.: PROBLEMS ASSOCIATED WITH INTERPRETING MAGMATIC FABRICS		
11:45-12:00	C.R. Anhaeusser: ARCHAEOAN KOMATIITIC 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	B. Litrol et al.: A SEDIMENTOLOGICAL AND CHRONOSTRATIGRAPHIC STUDY OF TWO DEEP BOREHOLES IN THE CONGO BASIN: THE SAMBA AND DEKESÉ SECTIONS	11:45-12:00	L. Hoyer et al.: THE ANALYSIS OF AGENOR LINEA ON THE SURFACE OF EUROPA		
12:00-12:15	A. Hofmann et al.: SILICIFICATION IN PALAEOARCHAEOAN GREENSTONES: CONSTRAINTS FROM SUBSOTPE AND ULTRA-LOW-LEVEL GOLD ANALYSIS	12:15-12:30	B.N. Ekwueme: THE PAN AFRICAN TECTONOTHERMAL EVENT OF SOUTH EASTERN NIGERIA, A REVIEW	12:15-12:30	N. Kanella 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)				
12:15-12:30	B. Cavallazzi et al.: HRTEM CHARACTERIZATION OF Ca-CARBONATE NANOPHASES IN A 3.33 GA-OLD MICROBIAL MAT, BARBERTON GREENSTONE BELT, SOUTH AFRICA								

12:30-13:30 Lunch Break

Venue 1		Venue 2		Venue 3		Venue 4		Venue 5	
S 3.4 Layered Mafic Intrusions and the Enduring Enigma of the Bushveld Complex. Chair: C. Hatton		S 1 - continued		S 9 - continued		Forum "Women in Geoscience (WIG) at CAG23"		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. Birgen 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				ORAL PRESENTATIONS - SESSION 3: POST GONDWANA GEODYNAMICS OF AFRICA (Times shown in red do not correspond horizontally to rest of programme.)
14:30-14:45	C. Hatton: 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. Gulloucheau et al.: PALEOSURFACES, INCISION AND DEFORMATION OF THE CONGO CUVETTE DURING CENOZOIC TIMES			14:00-16:00	
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. Addislin Glodji 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. Olson 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. Bonin: 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 EPIOROGENY: LINKING TECTONISM, DRAINAGE AND PHYLOGEOGRAPHY			16:00-16:30	
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			16:30-16:30	
		15:45-16:00	P. Bowden and Y. Cottin: SOURCE AND ORIGIN OF AFRICAN A-TYPE MAGMATISM - A TOMOGRAPHIC SOLUTION					16:00-16:30	break
									ORAL PRESENTATIONS - SESSION 4: ENVIRONMENTAL GEOLOGY AND GEOHAZARDS (NATURAL HAZARDS VS. MAN-MADE HAZARDS) (Note: Round table discussions of YES-Africa will take place on Wednesday 12/1; participants please note announcements in sessions and consult organizers)

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

Venue 1	Venue 2	Venue 3	Venue 4	Venue 5
<p>S 3.4 Layered Mafic Intrusions and the Enduring Enigma of the Bushveld Complex - continued</p> <p>09:00-09:30 A.H. Wilson: EARLY MAGMA EMPLACEMENT STAGES OF THE BUSHVELD COMPLEX AND GREAT DYKE K</p> <p>09:30-09:45 R. Shlember: THE BUSHVELD COMPLEX CONTACT METAMORPHIC: AUREOLE WEST OF PLAINESBERG COMPLEX</p> <p>09:45-10:00 J.A. Kinnaird et al.: AN OVERVIEW OF THE PLATREEF, BUSHVELD COMPLEX</p> <p>10:00-10:15 C.D.K. Gwari and C.T. Mphahle: GENETIC ASPECTS OF THE PGE-BEARING MG CHROMITITE LAYERS OF THE BUSHVELD COMPLEX – PGE ORE BODIES OF THE FUTURE?</p> <p>10:15-10:30 L.M. Theron et al.: Cu-Ni-Fe MONO-SULPHIDE PHASE RELATIONS AT 1 ATM</p>	<p>S3.7 African meteorites & impact craters. Chairs: H. Chennoufi, C. Koeberl</p> <p>09:00-09:30 A.H. Chennoufi: METEORITES IN AFRICA: A HERITAGE TO PRESERVE AND A SCIENTIFIC RICHNESS K</p> <p>09:30-09:45 A. Barakat: METEORITE IMPACT SITES IN EGYPT: A REVIEW</p> <p>09:45-10:00 C. Koeberl: LIBYAN DESERT GLASS: FORMATION BY METEORITE IMPACT OR AIRBURST?</p> <p>10:00-10:15 C.R. Anhaeusser et al.: A POSSIBLE MESOARCHAEN METEORITE IMPACT OCCURRENCE AT SETLAGOLE, SOUTH AFRICA</p> <p>10:15-10:30 T. Mohr, Westphale and W.U. Reimold: PSEUDOTACHYLITIC BRECCIA FORMATION AT VREDEFORT REVISITED</p>	<p>S 4.6 Seismotectonics and seismic hazards in Africa. Chair: M. Meghraoui. To be followed by a business meeting</p> <p>09:00-09:15 M. Meghraoui: THE SEISMOTECTONIC CHARACTERISTICS OF THE AFRICAN PLATE: A CORNERSTONE FOR A REALISTIC SEISMIC HAZARD ASSESSMENT</p> <p>09:15-09:45 R. Pitho and M. Pagnin: GLOBAL EARTHQUAKE MODEL: HAZARD GLOBAL COMPONENTS STATUS AND OUTLOOK K</p> <p>09:45-10:00 A. Ayele: SEISMICITY OF THE EAST AFRICAN RIFT SYSTEM Inv</p> <p>10:00-10:15 L.S.N. Kalindekale: SEISMICITY IN MALAWI</p> <p>10:15-10:30 S. Harbi et al.: CASE STUDIES OF THE HISTORICAL SEISMICITY OF ALGERIA</p>	<p>S 16 Developing Geoscience Education in Africa: Integrating schools, tertiary institutions and informal settings. Chair: I. McKay</p> <p>09:00-09:30 S. Gaines and F. Totor: UNESCO KEYNOTE: EARTH SCIENCE EDUCATION IN AFRICA K</p> <p>09:30-10:00 I. McKay: IGOE WORKSHOP REPORT: BUILDING CAPACITY IN GEOSCIENCE EDUCATION IN THE DEVELOPING WORLD K</p> <p>10:00-10:15 Th. Schluter: GEOSCIENCES AT AFRICAN UNIVERSITIES – DEFICIENCIES AND POSSIBLE REMEDIES</p> <p>10:15-10:30 D.J. Lapworth et al.: TECHNICAL ASSISTANCE IN NIGERIA - DEVELOPING GEOSCIENCE SKILLS FOR TOMORROW</p>	<p>S 8.3 Geophysics groundwater resources, water chemistry, merged with S 10, Environmental Geology and Geohazards. Chairs: T. Davies, C. Hartnady</p> <p>09:00-09:15 D. Blake et al.: EXPLORATORY DRILLING RESULTS FROM THE TMG AQUIFERS, SOUTHWESTERN CAPE, SOUTH AFRICA</p> <p>09:15-09:30 C.J.H. Hartnady et al.: MONITORING AND TEST-PUMPING IN THE DAGEOS PROJECT AREA, QUTHSHOORN, WESTERN CAPE</p> <p>09:30-09:45 B.S. Mapiqi et al.: AN INVESTIGATION OF AQUIFER PROPERTIES IN THE NAUKLUIT MOUNTAIN AREA OF SW NAMIBIA</p> <p>09:45-10:00 T.A. Ashaw: WATER RESOURCES OF GABLE NEFFUSSA NORTH WEST LIBYA</p> <p>10:00-10:15 M.A. Lumu: ORIGINE DE LA MINERALISATION DANS LA NAPPE SUPERFICIELLE DU BASSIN VERSANT DE LA RIVIERE LUBUMBASHI</p> <p>10:15-10:30 C. Muskhani and L. Chevallier: SPATIAL DATA MINING TECHNIQUES FOR GROUNDWATER SUSTAINABILITY AT CATCHMENT SCALE</p>

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
<p>11:00-11:15 N.C. Steenkamp: RECOGNIZING MAGMATIC CONDUIT DEPOSITS BY GEOLOGICAL SETTING</p> <p>11:15-11:30 H. Wabo et al.: PALEOMAGNETISM OF POST-TRANSVAAL SILLS AND DYKES IN THE EASTERN KAAPVAL CRATON</p> <p>11:30-11:45 N. Nkosi et al.: THERMAL EVOLUTION OF THE ROOBERG GROUP, SOUTH AFRICA</p> <p>11:45-12:00 G.H. Grantham et al.: CHEMISTRY AND AGE OF THE TROMPSBURG COMPLEX, FREE STATE, SOUTH AFRICA AND COMPARISONS WITH THE BUSHVELD COMPLEX</p> <p>12:00-12:15 G. Mishra et al.: THE NKOMATI NI-CU-CO-PGE DEPOSIT: GEOLOGY AND MINERALISATION</p> <p>12:15-12:30 M. Tredoux et al.: MICRO-PHASES IN A Ni-RICH ROCK TYPE FROM AN ARCHEAN OPHIOLITE, SOUTH AFRICA</p>	<p>11:00-11:30 COMPARISON OF THE BOSUMTWI IMPACT CRATER, GHANA, AND THE EL'GYGYGYN IMPACT CRATER, RUSSIA: DEEP DRILLING PROJECTS Koeberl K</p> <p>11:30-11:45 A. Chennoufi et al.: CATHODOLUMINESCENCE OF SILICA INDICATOR OF THE SHOCK IN METEORITES AND IMPACT CRATERS</p> <p>11:45-12:00 A. Laroussi et al.: SPECIATION DE LA SILICE - COUPLAGE MEB RAMAN ET CATHODOLUMINESCENCE</p> <p>12:00-12:15 P. Ogilvie et al.: SHOCK PRESSURE BAROMETRY IN THE CORE OF THE VREDEFORT DOME</p> <p>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.</p>	<p>11:00-11:15 R. Durrheim et al.: AFRICA-ARRAY INVESTIGATIONS OF ACTIVE DEFORMATION AND SEISMIC AND VOLCANIC HAZARD</p> <p>11:15-11:30 B. Alesba et al.: GEODYNAMIC IMPLICATIONS OF THE RECENT EARTHQUAKES FELT IN CENTRAL CAMEROON Inv</p> <p>11:30-11:45 A. Zogning: STRUCTURE AND STRUCTURAL CONTROL OF THE ACTIVITY OF MOUNT CAMEROON</p> <p>11:45-12:00 D. Benouar and C.J.H. Hartnady: AFRICAN CATALOGUE OF EARTHQUAKES (ACE)</p> <p>12:00-12:15 S.R.M. Fernandes et al.: PRESENT-DAY KINEMATICS OF MOZAMBIQUE USING CONTINUOUS AND EPISODIC GPS DATA</p> <p>12:15-12:30 M. Belachew et al.: COMPARISON OF DIKE INTRUSIONS IN AN INCIDENT SEAFLOOR SPREADING SEGMENT IN AFAR, ETHIOPIA: SEISMICITY PERSPECTIVES</p>	<p>11:00-11:15 xx. Zawada: TRAINING OF MAPPING GEOLOGISTS</p> <p>11:15-11:30 J.C. Melgarejo et al.: PROPOSAL FOR THE DEVELOPMENT OF PRACTICAL DEMONSTRATIONS IN MINERALOGY</p> <p>11:30-11:45 G.R. Drennan et al.: MATHEMATICS – IS THERE A RELATIONSHIP BETWEEN GEOSCIENCE PERFORMANCE AND MATHEMATICAL COMPETENCE?</p> <p>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</p>	<p>11:00-11:15 P.K. Nyabze and E. Chirenje: RESULTS OF ELECTRICAL AND ELECTROMAGNETIC DEPTH SOUNDINGS AT SILOAM AND SAGOLE THERMAL SPRINGS, LIMPOPO PROVINCE, SOUTH AFRICA</p> <p>11:15-11:30 J.M. Huizenga: INORGANIC POLLUTION OF SURFACE WATERS IN SOUTH AFRICA: QUANTIFICATION AND CHARACTERISATION</p> <p>11:30-11:45 H.C.F. Pretorius et al.: NATURAL RADIONUCLIDES IN GROUNDWATER FROM VAALPUTS, NAMAQUALAND, SOUTH AFRICA</p> <p>11:45-12:00 D.J. Lapworth et al.: FORECASTING THE IMPACT OF CLIMATE CHANGE ON WATER SUPPLIES USING GROUNDWATER RESIDENCE TIMES</p> <p>12:00-12:15 R.S. Sioe et al.: EVIDENCE OF THREE HIGH MAGNITUDE FLOODING EVENTS IN THE LIMPOPO RIVER FLOOD-PLAN</p> <p>12:15-12:30 a. MacDonald, H. Bonser et al.: MAP OF GROUNDWATER RESILIENCE TO CLIMATE CHANGE IN AFRICA</p>

12:30-13:20 Lunch Break

13:20-13:50 Plenary talk by L. Woodfork: IYPE 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.	S 4.6 - continued. To be followed by a business meeting in another venue	S 8.2 Energy Resources: Petroleum, Coal and Uranium.	S 8.3 and S 10, continued
<p>14:00-14:15 A. Magesse and H. Helmy: PLATINUM GROUP-MINERAL OCCURRENCES IN ALASKAN TYPE MAFIC-ULTRAMAFIC ROCKS IN NORTH EAST AFRICA (YUBDO, ETHIOPIA & AKAREM, EGYPT)</p> <p>14:15-14:30 J.J. Barne et al.: ⁴⁰Ar/³⁹Ar AND FLUID INCLUSIONS STUDY OF THE EMPLACEMENT OF THE FREETOWN COMPLEX, SIERRA LEONE</p> <p>14:30-14:45 J. Berger et al.: EMPLACEMENT AND DIFFERENTIATION OF A NEAR-ARCHEAN MAFIC INTRUSION (AMSAGA, MAURITANIA)</p> <p>14:45-15:00 S. Linkerman et al.: SM-ND ISOTOPIC & PGE COMPOSITION OF THE 2.44 GA LAYERED KEMI INTRUSION, FINLAND</p>	<p>14:00-14:30 J.L.R. Touret and J.M. Huizenga: GRANULITE SUPER-EVENTS: THE CASE OF PAN-AFRICAN K</p> <p>14:30-14:45 C.A. Hauzenberger et al.: THE NORTHERN TERMINATION OF THE IRUMIDE BELT IN TANZANIA: A LA-MCICP-MS AGE STUDY</p> <p>14:45-15:00 N. Boniface et al.: REPEATED OROGENESIS AND OCEANIC CRUST SUBDUCTION IN THE PALEOPROTEROZOIC UREUNDI BELT, TANZANIA</p> <p>15:00-15:15 H. Mikitie et al.: NEW AREA OF CHARNOKITES AND GRANULITES: OGILI IN NORTH UGANDA</p> <p>15:15-15:30 P. Horvath, J. Reinhardt and A. Hofmann: HIGH-GRADE METAMORPHISM OF IRONSTONES AND RELATED ROCKS FROM SOUTHWEST SWAZILAND</p> <p>15:30-15:45 G.A. Belyanin et al.: ULTRAHIGH TEMPERATURE METAMORPHISM IN THE NEOARCHAEN SOUTHERN MARGINAL ZONE OF THE LIMPOPO BELT, SOUTH AFRICA</p>	<p>14:00-14:15 V. Midzi: IMPLICATIONS OF COULOMB STRESS CHANGES IN SEISMIC HAZARD ASSESSMENT</p> <p>14:15-14:30 A. Ayadi et al.: SEISMOTECTONICS AND SEISMIC HAZARD OF THE ATLAS MOUNTAINS OF NORTH AFRICA Inv</p> <p>S 4.1 The East African Rift: Tectonics, Volcanism, Geophysics. Chair: G. Mutegwa</p> <p>14:45-15:00 D. Deveau: EAST AFRICAN RIFT KINEMATICS AND STRESS FIELD: GEOLOGICAL & FOCAL MECHANISM DATA</p> <p>15:00-15:15 C.J.H. Hartnady et al.: GPS KINEMATICS OF THE NUBIA-SOMALIA PLATE BOUNDARY IN SOUTHERN AFRICA</p> <p>15:15-15:30 F.U. Bauer et al.: TRACING THE EXHUMATION HISTORY OF THE RVENZORI MOUNTAINS, ALBERTINE RIFT</p> <p>15:30-15:45 D.M. Watula et al.: THE EFFECTS OF FEBRUARY 3rd, 2008 EARTHQUAKE IN THE LAKE KIVU BASIN, WESTERN RIFT VALLEY OF AFRICA</p> <p>15:45-16:00 D.M. Watula: THE IMPACT OF TECTONICS EARTHQUAKES IN WESTERN RIFT VALLEY ON THE VOLCANIC ACTIVITIES OF NYIRAGONGO VOLCANO IN THE VIRUNGA REGION</p>	<p>14:00-14:15 S.B. Olobenyi and J.E. Ogilvie: MAJOR AND TRACE ELEMENT CHARACTERISTICS OF THE TERTIARY LIGNITE SERIES WITHIN THE OGWASHI-ASABA FORMATION, SOUTHERN NIGERIA.</p> <p>14:15-14:30 T. Niholi et al.: LOW ENTHALPY GEOTHERMAL ENERGY PURIFICATION OF ACID MINE DRAINAGE, AND STORAGE OF POTABLE WATER IN THE DEEP GOLD MINES OF SOUTH AFRICA</p> <p>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</p> <p>14:45-15:00 K. Tadesse: THE ETHIOPIAN RIFT: A NEW HYDROCARBON PROVINCE FOR FUTURE EXPLORATION</p> <p>15:00-15:15 J.P. Bussio and R.J. Roberts: SLL METAMORPHIC EFFECT: RELATION TO FLOW DYNAMICS AND ORIGIN</p> <p>15:15-15:30 P. Sebola et al.: CHARACTERISATION OF URANIUM IN THE VAAL REEF OF THE KLERKSDORP GOLDFIELD, WITS BASIN</p> <p>15:30-15:45 A. Ould-Hamou et al.: MINERALISATIONS URANIFERES LIEES A LA DISCORDANCE SCIEE PALES PROTEROZOIQUE COUVERTURE SEDIMENTAIRE PALEOZOIQUE BASSIN DE TIN SERIRINE OUA NANGGOUR HOGGAR ALGERIE</p>	<p>14:00-14:15 W. Altermann et al.: THE CO₂-RICH PRECAMBRIAN ATMOSPHERE AND CO₂ SEQUESTRATION IN S. AFRICA</p> <p>14:15-14:30 D. Blake et al.: COASTAL HAZARD RISK ASSESSMENT FOR PARTS OF THE WESTERN CAPE, SOUTH AFRICA</p> <p>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</p> <p>14:45-15:00 M.S. Njome et al.: LOADING AND STRUCTURAL INSTABILITY AT THE MOUNT CAMEROON VOLCANO, WEST AFRICA</p> <p>15:00-15:15 I.A. Oyediran and G.O. Adeyemi: GEOTECHNICAL EVALUATION OF A LOCATION AROUND BADAN, NIGERIA FOR LANDFILL</p> <p>15:15-15:30 T.C. Davies and A.O. Solomon: URBAN GEOLOGY OF LAGOS. PART 1: AIR POLLUTION</p>

Friday 14/1

Venue 1		Venue 2		Venue 3		Venue 4		Venue 5	
S 8.1 Earth Resources and Sustainable Development of Africa: A Tribute to Prof. M.O. Oyawoye, Chairs: C. Gauert, S. Tedesse		S 3.6 - continued and start of S 3.3		S 4.1 - continued				S 5: Basin analysis, Stratigraphy and the Kaapvaal Craton, A tribute to Prof N. Beukes	
08:30-09:00	R.R. Large et al.: DIAGNETIC ARSENIAN PYRITE IN CARBONACEOUS SHALES: THE KEY TO GOLD ENRICHMENT IN THE BENDIGO GOLD-FIELD, 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	R.W. Renault et al.: HISTORY OF GEOTHERMAL ACTIVITY AT LAKE BOGORIA, KENYA RIFT VALLEY			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 BIRMIAN FORMATIONS OF DALEMA, KEDOUGOU-KENÉBA NLER, EASTERN SÉNÉGAL	08:45-09:00	P. Ohghe and R.L. Gibson: IMPACT-INDUCED ULTRAMETAMORPHISM AND EXTREME MELT LOSS IN THE THE VREDEFORT DOME	08:45-09:00	C. Vye et al.: IDENTIFYING THE RELATIONSHIP BETWEEN VOLCANISM AND RIFTING IN AFAR (ETHIOPIA).			09:00-09:15	R. Da Silva et al.: NEW AGE CONSTRAINTS ON THE PALEOPROTEROZOIC GAMAGARAMAPERS TO LICKNOW SUCCESSION IN GRIQUALAND WEST: IMPLICATIONS FOR THE TIMING OF FORMATION OF SISHEN-TYPE IRON ORE DEPOSITS AND THE NATURE OF THE LOMANGUNDI HEAVY CARBONATE CARBON ISOTOPIC EXCURSION
09:15-09:30	S. Mondlani, 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	09:00-09:15	D. Tesfaye et al.: PETROGENESIS OF THE SOUTHERN ETHIOPIA RIFT VOLCANICS			09:15-09:30	R.A. Armstrong et al.: ADVANCES IN <i>IN SITU</i> STABLE ISOTOPE STUDIES USING SHRIMP
09:30-09:45	C.D.K. Gauert 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	K. Link et al.: PETROLOGICAL SUBRIFT MANTLE PROCESSES IN THE LITHOSPHERE BENEATH THE WESTERN BRANCH OF THE EAST AFRICAN RIFT	09:30-09:45	G. Vicla et al.: UNRAVELLING 500 Ma OF BRITTLE DEFORMATIONAL HISTORY IN NAMAQUALAND	09:30-09:45	B. Guj 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 AJURELE USING GARNET PORPHYROBLAST PETROGRAPHY AND CHEMISTRY	09:45-10:00	M.E. De Villiers: UGANDA'S VOLCANOES	09:45-10:00	M.A.G. Andreoli et al.: SEISMIC HAZARD AND THE SOUTH AFRICAN NUCLEAR PROGRAM: NETECTONIC INSIGHTS	09:45-10:00	N.J. Beukes et al.: Ce ANOMALIES IN -2.4 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	M. Meghraoui et al.: ACTIVE FAULTING AND TRANSPRESSION TECTONICS ALONG THE PLATE BOUNDARY IN NORTH AFRICA	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. Gebrelasse 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. Ranganali and O. Ovworwa: GRAVITY MODELLING OF LATE ARCHAIC CHILIMANZI AND RAZI PLUTONS, ZIMBABWE CRATON			10:15-10:30	A. Misa and C.J.H. Hartshay: MORPHOTECTONIC ANALYSIS OF THE URRONGAS PROTO-RIFT SWELL, SOUTHERN MOZAMBIQUE	10:15-10:30	G.M. Teteh and N.J. Beukes: TEXTURAL AND CHEMICAL SIGNATURES OF RECRYSTALLISED MANGANESE CARBONATE AT NSUTA OF THE BIRMIAN 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.: NIC 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 ⁸⁷ Sr/ ⁸⁶ 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. Billat: PRECAMBRIAN MINERALIZATIONS OF GABON AND SURROUNDING COUNTRIES	11:45-12:00	A. Villaras 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. Adetunji-Brown: THE GENESIS AND IMPLICATION OF THE CHALCOPHILES DETERMINED IN SOILS OF THE YOUNGER GRANITE PROVINCE, NORTH CENTRAL NIGERIA.			11:30-11:45	D. Frizon de Lamotte 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.: MULTIELEMENT 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			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	Okunilo, O.A.: METALLOGENY OF PRECAMBRIAN Ta-Nb PEGMATITES OF NIGERIA	12:15-12:30	D.K. Asiedu: GEOCHEMISTRY AND ND-ISOTOPICT STUDIES ON PALEOPROTEROZOIC GRANITIODS FROM THE WINNEBA AREA, SOUTHERN GHANA	12:00-12:15	B.D.O. Odihambo: 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 KEIR DRAINAGE BASIN, ALGERIA
12:15-12:30	J.C. Ngaruye and C.D.K. Gauert: METALLOGENIC ASPECTS OF Sn-W-Ni-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	12:00-12:30	T. Blenkinsop and A. Moore: EPEIROGENY	12:15-12:30	V. Nsumotu: THE SEDIMENTOLOGY OF THE KAROO SUPERGROUP IN THE GEMSBOK SUB-BASIN

12:30-13:20 Lunch Break

13:20-13:50 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	
14:00-14:15	C. Butler et al.: HETEROGENEITE 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. Dickin and M. Wiersdorf: SOUTHERN BOTSWANA'S ECCA AND BEAUFORT GROUPS - WHERE DID THEIR SEDIMENTS COME FROM?
14:15-14:30	L. Conroy and A.V. Moila: A COMBINED FORENSIC APPROACH TO DISCRIMINATING DIAMONDS	14:30-14:45	A. Laurie 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.
		14:45-15:00	Z. Bagai and M.J. Odumetse: MULTIPLE PHASES IN THE MMATHEHE GRANITE IN SE BOTSWANA: EVIDENCE FOR A SUCCESSION OF INTRUSIVE EPISODES	14:30-14:45	S. Kebede: THE LINKAGE BETWEEN GEOENVIRONMENTAL SETTING AND HUMAN HEALTH IN ETHIOPIA: A GEOENVIRONMENTAL-HEALTH MODEL	14:30-14:45	F. Gullocheau 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	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		