35TH INTERNATIONAL GEOLOGICAL CONGRESS

27 AUGUST - 2 SEPTEMBER 2016 | CAPE TOWN, SOUTH AFRICA

SYMPOSIUM SCHEDULE

Correct at time of going to print.
Programme changes will be communicated via the App and venue screens.

www.35igc.org

giya ngomhlaba dance with earth

IUGS International Union of Geological Sciences

mineral resources
Department: Mineral Resources
REPUBLIC OF SOUTH AFRICA

Council for Geoscience
Applied Geoscience Solutions

GSSA Geological Society of South Africa

Under the patronage of UNESCO

exxaro POWERING POSSIBILITY

SYMPOSIUM SCHEDULE

TIME		14:00-15:30	16:00-17:45	08:00-10:00	10:30-12:00	14:00-15:30	16:00-17:45	08:00-10:00	10:30-12:00	14:00-15:30	16:00-17:45	08:00-10:00	10:30-12:00	14:00-15:30	16:00-17:45	08:00-10:00	10:30-12:00	14:00-15:30
SESSION		S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15	S16	S17
SYMPOSIUM	TITLE	MONDAY 29		TUESDAY 30				WEDNESDAY 31				THURSDAY 1				FRIDAY 2		
THEME 1 - Geoheritage and Conservation																		
1.1	Geoheritage and Geoparks	1.62																
1.2	Geoheritage and Geoparks		1.62															
1.3	Geoheritage and Conservation			1.62														
1.4	Geoheritage and Conservation				1.62													
1.5	Geoheritage and Conservation					1.62												
1.6	Geoheritage and Conservation						1.62											
1.7	Heritage, conservation and management / Geoheritage and Geoparks							1.62										
1.8	Heritage, conservation and management								1.62									
THEME 2 - Geoscience Education and Public Communication																		
2.8	Geoscience Education at school level								1.64									
2.9	Geoscience Education at school level									1.64								
2.10	Educational Seismology in Secondary Schools / Field-Based Geoscience Education: A YES Network Comparison / Geoscience Education in Africa: Challenges & PerspectivesGeoscience Education at school level /Geoscience Education: technology & training the next generation of geoscientists										1.64							
2.11	Geoscience Education and Public Communication											1.64						
2.12	Geoscience Education and Public Communication												1.64					
2.13	Geoscience Education and Public Communication													1.64				
2.14	Geoscience Education and Public Communication														1.64			
2.15	Communicating Geoscience to the Public: Promises and Pitfalls															1.64		
2.16	Place-based and culturally informed geoscience education / Communicating Geoscience to the Public: Promises and Pitfalls / Field-Based Geoscience Education: A YES Network Comparison																1.64	
2.17	Place-based and culturally informed geoscience education / Sustainable Geoscience: embedding Earth stewardship in geo-education																	1.64
THEME 3 - Public Sector Geoscience and Geological Surveys																		
3.1	Launch of PanAfGeo	1.63																
3.2	Launch of PanAfGeo		1.63															
3.3	Geological mapping of Africa – a key for sustainable use of earth resources			1.63														
3.4	Regional Geological Mapping				1.63													
3.5	Mapping the geochemistry of the Earth's surface at global to local scales (3rd Arthur Darnley Symposium)					1.63												
3.6	Mapping the geochemistry of the Earth's surface at global to local scales (3rd Arthur Darnley Symposium)						1.63											
3.7	Regional Geological Mapping							1.63										
3.8	Geoscience for environmental management								1.63									
3.9	Public Sector Geoscience and Geological Surveys									1.63								
3.10	Public Sector Geoscience and Geological Surveys										1.63							
3.11	Skills for Sustainability – Effective Application of Geology to International Development / Global Geoscience Human Capacity Building - Trends, Challenges, and Innovative Approaches											1.63						
3.14	GMIS Special Symposium														1.63			
THEME 4 - Climate Change Studies																		
4.1	Climate Change Studies	Hall 4B4																
4.2	Climate Change Studies / Climate Change Impact on Global Water Resources		Hall 4B4															
4.3	From the Caspian to the Mediterranean: Environmental change and human response during the Quaternary: IGCP610			Hall 4B4														
4.4	Palaeosols, palaeoweathering profiles and polygenetic soils indicators of climate change				Hall 4B4													
4.5	Palaeosols, palaeoweathering profiles and polygenetic soils indicators of climate change					Hall 4B4												

	TIME	14:00-15:30	16:00-17:45	08:00-10:00	10:30-12:00	14:00-15:30	16:00-17:45	08:00-10:00	10:30-12:00	14:00-15:30	16:00-17:45	08:00-10:00	10:30-12:00	14:00-15:30	16:00-17:45	08:00-10:00	10:30-12:00	14:00-15:30
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SYMPOSIUM	TITLE	MONDAY 29		TUESDAY 30				WEDNESDAY 31				THURSDAY 1				FRIDAY 2		
4.6	Palaeosols, palaeoweathering profiles and polygenetic soils indicators of climate change						Hall 4B4											
4.7	Palaeosols, palaeoweathering profiles and polygenetic soils indicators of climate change							Hall 4B4										
4.8	Past Global Climate Change In The Himalaya and Future Implications								Hall 4B4									
4.9	Past Global Climate Change In The Himalaya and Future Implications									Hall 4B4								
4.10	Speleothem and Speleogenesis: Past Climate Change, Monsoon and Geomicrobiological Process										Hall 4B4							
4.12	Climate Change Studies												Reg Foyer 2					
4.13	Climate Change Studies													Reg Foyer 2				
4.14	Understanding Tropical Climate Change from geological perspectives through multi-dimensional approach														Reg Foyer 2			
4.15	Understanding Tropical Climate Change from geological perspectives through multi-dimensional approach															Reg Foyer 2		
4.16	Understanding Tropical Climate Change from geological perspectives through multi-dimensional approach																Reg Foyer 2	
4.17	Understanding Tropical Climate Change from geological perspectives through multi-dimensional approach																	Reg Foyer 2
THEME 5 - Groundwater and Hydrogeology																		
5.1	Hydrogeology and Hydrochemistry of Arid and Semi-Arid Africa: A Tribute to W. M. Edmunds	2.64 - 2.66																
5.2	Hydrogeology and Hydrochemistry of Arid and Semi-Arid Africa: A Tribute to W. M. Edmunds		2.64 - 2.66															
5.3	Hydrogeology and Hydrochemistry of Arid and Semi-Arid Africa: A tribute to W. M. Edmunds / Non-Darcian flows in soil and geological porous media / Hydrochemistry and recharge of karst and other systems / Groundwater and Hydrogeology			2.64 - 2.66														
5.4	Integrated geo-hydrological approaches to secure groundwater resources				2.64 - 2.66													
5.5	Integrated geo-hydrological approaches to secure groundwater resources					2.64 - 2.66												
5.6	Hydro-geochemistry and contamination of groundwater [A YES NETWORK INITIATIVE]						2.64 - 2.66											
THEME 6 - Soil Science																		
6.1	Forensic Soil Science and Geology	(W) Victoria & Alfred																
6.2	History and Future of Forensic Soil Science and Geology / Recent Developments		(W) Victoria & Alfred															
6.3	Forensic Soil Science and Geology: held in association with 5th International Conference on Criminal and Environmental Soil Forensics			(W) Victoria & Alfred														
6.4	Open Session				(W) Victoria & Alfred													
THEME 7 - Geoscience Data and Information Systems																		
7.1	Geoscience Information and Data in Africa	2.44 - 2.46																
7.2	Geoscience Information and Data in Africa		2.44 - 2.46															
7.3	CGMW: International Geoscience Maps in the 21st Century			2.44 - 2.46														
7.4	CGMW: International Geoscience Maps in the 21st Century				2.44 - 2.46													
7.5	Geoscience Spatial Data Infrastructures					2.44 - 2.46												
7.6	Geoscience Spatial Data Infrastructures						2.44 - 2.46											
7.7	Geoscience Spatial Data Infrastructures							2.44 - 2.46										
7.8	Geoscience Spatial Data Infrastructures								2.44 - 2.46									
7.9	Information Management - Interoperability and Standards									2.44 - 2.46								
7.11	Information Management - Interoperability and Standards											2.41 - 2.43						

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7.12	Data analysis delivery, dissemination and exploitation of geoscience data and information, Tools – software												2.41 - 2.43					
7.13	Data analysis delivery, dissemination and exploitation of geoscience data and information, Tools – software													2.41 - 2.43				
7.14	Africa One Geology														2.41 - 2.43			
7.15	Open															2.41 - 2.43		
7.16	Open																2.41 - 2.43	
THEME 8 - Geohazards																		
8.1	Geohazards	Hall 4B2																
8.1A	Geohazards: Prevention, risk reduction, early warning and preparedness	Roof Terrace																
8.2	Geohazards and societal benefits: coping with reality / Risk evaluation and management in the 21st Century		Hall 4B2															
8.2A	Geohazards		Roof Terrace															
8.3	Geohazards and societal benefits: coping with reality			Hall 4B2														
8.4	Subaerial and submarine landslide processes and hazards				Hall 4B2													
8.5	Subaerial and submarine landslide processes and hazards / Crustal deformation and seismotectonics in Africa: Active faulting and earthquake hazard assessment					Hall 4B2												
8.6	Crustal deformation and seismotectonics in Africa: Active faulting and earthquake hazard assessment						Hall 4B2											
8.6A	Challenges in Identifying and Characterising Seismogenic Faults in Non-Plate Boundary Settings / Geohazards and societal benefits: coping with reality						Roof Terrace											
8.7	Crustal deformation and seismotectonics in Africa: Active faulting and earthquake hazard assessment / Subaerial and submarine landslide processes and hazards							Hall 4B2										
8.8	Crustal deformation and seismotectonics in Africa: Active faulting and earthquake hazard assessment / Subaerial and submarine landslide processes and hazards								Hall 4B2									
8.9	Subaerial and submarine landslide processes and hazards									Hall 4B2								
8.10	Subaerial and submarine landslide processes and hazards										Hall 4B2							
8.11	Geohazards: Prevention, risk reduction, early warning and preparedness											Hall 4B2						
8.12	Geohazards: Prevention, risk reduction, early warning and preparedness												Hall 4B2					
8.13	Geohazards: Prevention, risk reduction, early warning and preparedness													Hall 4B2				
8.14	Geohazards: Prevention, risk reduction, early warning and preparedness														Hall 4B2			
8.15	Managing Geohazards and Risks from space / Himalayan Mountain Building and Fragile Ecosystem vis-a-vis Natural Disaster Management / Challenges in Identifying and Characterising Seismogenic Faults in Non-Plate Boundary Settings															Hall 4B2		
8.16	Challenges in Identifying and Characterising Seismogenic Faults in Non-Plate Boundary Settings																Hall 4B2	
8.17	Challenges in Identifying and Characterising Seismogenic Faults in Non-Plate Boundary Settings																	Hall 4B2
THEME 9 - Proximal and Remote Sensing Technologies																		
9.10	Geological Mapping & Mineral Exploration: Case studies from Africa / Spectral Geology in Exploration (minerals, hydrocarbon, geothermal) and Production										2.44 - 2.46							
9.11	Spectral Geology in Exploration (minerals, hydrocarbon, geothermal) and Production											2.44 - 2.46						
9.12	Spectral Geology in Exploration (minerals, hydrocarbon, geothermal) and Production / Analyzing Geohazards and Risk Using Remotely Sensed Derived Datasets												2.44 - 2.46					
9.13	Analyzing Geohazards and Risk Using Remotely Sensed Derived Datasets / Use of radar remote sensing in geological applications													2.44 - 2.46				

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9.14	Use of radar remote sensing in geological applications / Challenges and opportunities in achieving global remote sensing of surface minerals														2.44 - 2.46			
9.15	Proximal and Remote Sensing Technologies															2.44 - 2.46		
9.16	Proximal and Remote Sensing Technologies																2.44 - 2.46	
THEME 10 - History of the Geosciences																		
10.1	General contributuions on the history of geology	1.64																
10.2	General contributuions on the history of geology		1.64															
10.3	History of Geology in Africa			1.64														
10.4	History of mineral and water resources				1.64													
10.5	Early man and early Geological ideas					1.64												
10.6	General contributuions on the history of geology						1.64											
10.7	Historical Studies of Gondwana							1.64										
THEME 11 - Medical Geology																		
11.8	Medical Geology on a Dynamic Planet: Prosperity, Poisons and Providence								(W) Victoria & Alfred									
11.9	Medical Geology / Medical Geology - case studies from Africa									(W) Victoria & Alfred								
11.10	Medical Geology on a Dynamic Planet: Prosperity, Poisons and Providence / Africa: A natural laboratory for medical geology investigations										(W) Victoria & Alfred							
THEME 12 - Global Geoscience Professionalism and Geoethics																		
12.1	Geoethics - General Aspects	2.41 - 2.43																
12.2	Geoethics and Geoscience Organizations		2.41 - 2.43															
12.3	Geoethics - Teaching, Training and Communication			2.41 - 2.43														
12.4	Geoethics - Case Studies				2.41 - 2.43													
12.5	Panel discussion - What's the point of Geoethics					2.41 - 2.43												
12.6	Professional Competencies						2.41 - 2.43											
12.7	Roles of Professional bodies and International Standards							2.41 - 2.43										
12.8	Geoethics and Resouces Needs for Future Generations - 1								2.41 - 2.43									
12.9	Geoethics and Resouces Needs for Future Generations - 2									2.41 - 2.43								
12.10	Ethical Practice In Geoscience										2.41 - 2.43							
12.12	Panel Discussion - What is wrong with our work environment?												1.63					
12.13	Panel Discussion - Can the public trust Geoscientists?													1.63				
THEME 13 - Geosciences for Benefitting Low-income Countries																		
13.12	AGID Sub Theme : 1: Ground Water Development for Food Security & Rural Health												(W) Victoria & Alfred					
13.13	AGID Sub Theme : 2 Mining for Economic Progress of Low-Income Countries													(W) Victoria & Alfred				
13.14	AGID Sub Theme : 3: Geo Parks, Geo Heritage & Geo Tourism: Role of Women Geoscientists / AGID Sub Theme : 4: Geo-hazards: Creating Social Awareness, Preparedness and Capacity Building for mitigating Geohazards														(W) Victoria & Alfred			
13.15	Open session															(W) Victoria & Alfred		
THEME 14 - Environmental Geosciences																		
14.1	Environmental Management of Water Resources	2.61- 2.63																
14.2	Environmental Management of Water Resources / Environmental Aspects in the Mining Industry		2.61- 2.63															
14.3	Environmental Aspects in the Mining Industry			2.61- 2.63														
14.4	Environmental Aspects in the Mining Industry				2.61- 2.63													
14.5	Environmental Aspects in the Mining Industry					2.61- 2.63												

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SYMPOSIUM	TITLE	MONDAY 29		TUESDAY 30				WEDNESDAY 31				THURSDAY 1				FRIDAY 2		
14.6	Coastal Studies						2.61- 2.63											
14.7	Coast and Society							2.61- 2.63										
14.8	Geological controls on the quantitative risk assessment of contaminants in shallow soils and groundwater (human health and eco-toxicology); the importance of a good conceptual site model prior to remediation								2.61- 2.63									
14.9	Geological controls on the quantitative risk assessment of contaminants in shallow soils and groundwater (human health and eco-toxicology); the importance of a good conceptual site model prior to remediation									2.61- 2.63								
14.10	Geoscience at the nexus of industry, water and social impacts of the extractive and power industries										2.61- 2.63							
14.11	Geoscience for environmental management											2.61- 2.63						
14.12	Geosciences in Strategic Environmental Management / Environmental Geosciences												2.61- 2.63					
14.13	Environmental Geosciences													2.61- 2.63				
THEME 15 - Engineering Geology and Geomechanics																		
15.1	Dimension stone and building materials (sponsored by IAEG C-10, HSTG and IGCP 637)	Hall 4B1																
15.2	Dimension stone and building materials (sponsored by IAEG C-10, HSTG and IGCP 637)		Hall 4B1															
15.3	Slope stability - Characterisation and risk management			Hall 4B1														
15.4	Slope stability - Design and mitigation measures				Hall 4B1													
15.5	Slope stability - Open pit mining					Hall 4B1												
15.6	Slope stability - Analysis and investigation						Hall 4B1											
15.7	Aggregates and construction materials (sponsored by IAEG C-14)							Hall 4B1										
15.8	Sustainable use of the subsurface: the geology, engineering and environment of our underground asset								Hall 4B1									
15.9	Laboratory and field testing - innovations and new methods of interpretation									Hall 4B1								
15.10	Laboratory and field testing - innovations and new methods of interpretation										Hall 4B1							
15.11	Slope stability - analysis, investigation and remediation / Soil and rock mechanics											Hall 4B1						
15.12	Soil and rock mechanics												Hall 4B1					
15.13	Young Engineering Geologists Session													Hall 4B1				
15.14	Karst problems - identification and remediation														Hall 4B1			
15.15	Engineering Geology for large structures															Hall 4B1		
15.16	Geological Engineering and Energy Facets / Marine geotechnics																Hall 4B1	
15.17	Slope stability - analysis, investigation and remediation / Engineering Geology and Geomechanics																	Hall 4B1
THEME 16 - Mineral Resources Evaluation, Geostatistics and Mathematical Geoscience																		
16.1	IAMG Plenary Session	(W) Ball-room East																
16.2	IAMG Plenary Session		(W) Ball-room East															
16.6	Mineral Resources Evaluation, Geostatistics and Mathematical Geoscience						1.61											
16.7	Geostatistics for Geological Resources Modeling							1.61										
16.8	Mineral Resources Evaluation, Geostatistics and Mathematical Geoscience								1.61									
16.9	Statistical analysis of compositional data. Theory and applications to Earth Sciences									1.61								
16.10	Mining Geostatistics and Operations Research in Mine Planning / Statistical analysis of compositional data. Theory and applications to Earth Sciences										1.61							
16.11	Advanced Quantitative Studies and Non Linear Methods in Geosciences											1.61						
16.12	Mineral Economics for Geologists												1.61					

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THEME 17 -Mineral Exploration																		
17.1	Mineral deposit footprints	Audi 2																
17.2	Mineral deposit footprints		Audi 2															
17.3	Greenfields exploration in regolith-dominated terrains			Audi 2														
17.4	Mineral deposit footprints				Audi 2													
17.5	New theories and methods in resources exploration					Audi 2												
17.6	From Ore Deposits to Global Metallogeny: implications for exploration success (Sponsored by IAGOD)						Audi 2											
17.7	New theories and methods in resources exploration							Audi 2										
17.8	New theories and methods in resources exploration								Audi 2									
17.9	New theories and methods in resources exploration									Audi 2								
17.10	Geoelectrics (geoelectromagnetic methods) for geotectonics										Audi 2							
17.11	Quantitative geoscience data analysis for mineral exploration targeting											Audi 2						
17.12	Quantitative geoscience data analysis for mineral exploration targeting												Audi 2					
17.13	Quantitative geoscience data analysis for mineral exploration targeting													Audi 2				
17.14	The Mineral system approach: the paradigm and future trends														Audi 2			
THEME 18 - Mineral Deposits and Ore Forming Processes																		
18.1	Ore-forming processes associated with hypabyssal magmatic and related volcanic systems (Sponsored by IAGOD)	Ballroom East																
18.2	Ore-forming processes associated with hypabyssal magmatic and related volcanic systems (Sponsored by IAGOD)		Ballroom East															
18.3	Ore-forming processes associated with hypabyssal magmatic and related volcanic systems (Sponsored by IAGOD)			Ballroom East														
18.4	Processes governing ore formation in the Bushveld Complex and other mafic and ultramafic magmatic systems (IAGOD-CODMUR sponsored)				Ballroom East													
18.5	Processes governing ore formation in the Bushveld Complex and other mafic and ultramafic magmatic systems (IAGOD-CODMUR sponsored)					Ballroom East												
18.6	Processes governing ore formation in the Bushveld Complex and other mafic and ultramafic magmatic systems (IAGOD-CODMUR sponsored)						Ballroom East											
18.7	Processes governing ore formation in the Bushveld Complex and other mafic and ultramafic magmatic systems (IAGOD-CODMUR sponsored)							Ballroom East										
18.7A	Sediment-hosted ore deposits							Ballroom West										
18.8	Processes governing ore formation in the Bushveld Complex and other mafic and ultramafic magmatic systems (IAGOD-CODMUR sponsored)								Audi 2									
18.8A	Sediment-hosted ore deposits								Ballroom West									
18.9	Processes governing ore formation in the Bushveld Complex and other mafic and ultramafic magmatic systems (IAGOD-CODMUR sponsored)									Ballroom East								
18,9A	Trace element analysis of minerals: applications in ore geology (Sponsored by IAGOD)									Ballroom West								
18.10	Major Mineral Deposits of Africa (sponsored by Vale)										Ballroom East							
18.10A	Mineral Deposits and Ore Forming Processes										Ballroom West							
18.11	Major Mineral Deposits of Africa (sponsored by Vale)											Ballroom East						
18.11A	Mineral Deposits and Ore Forming Processes											Ballroom West						
18.12	Major Mineral Deposits of Africa (sponsored by Vale)												Ballroom East					
18.12A	Trace element analysis of minerals: applications in ore geology (Sponsored by IAGOD) / Phosphate deposits: state of the art and further potential												Ballroom West					
18.13	Major Mineral Deposits of Africa (sponsored by Vale)													Ballroom East				
18.13A	Phosphate deposits: state of the art and further potential / Mineral Deposits and Ore Forming Processes													Ballroom West				

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18.14	Mineral Deposits and Ore Forming Processes														Ballroom East			
18.14A	Mineral Deposits and Ore Forming Processes														Ballroom West			
18.15	The Wiwatersrand Goldfields															Ballroom East		
18.15A	Crustal Evolution, Geodynamics and Mineral Systems															Ballroom West		
18.16	The Wiwatersrand Goldfields																Ballroom East	
18.16A	Mineral Deposits and Ore Forming Processes																Ballroom West	
18.17	Mineral Deposits and Ore Forming Processes																	Ballroom East
18.17A	Crustal Evolution, Geodynamics and Mineral Systems / Mineral Deposits and Ore Forming Processes																	Ballroom West
THEME 19 - Coal																		
19.1	Coal	(W) Marco Polo																
19.2	Coal		(W) Marco Polo															
19.3	Coal			(W) Marco Polo														
19.4	Quantitative characterization of coal resources and hazards				(W) Marco Polo													
19.5	Coal					(W) Marco Polo												
19.6	Coal						(W) Marco Polo											
THEME 20 - Petroleum Systems and Exploration																		
20.1	Petroleum systems of the On-shore basins of Africa (convened by Tullow Oil Ltd)	1.43 - 1.44																
20.2	Petroleum systems of the On-shore basins of Africa (convened by Tullow Oil Ltd)		1.43 - 1.44															
20.3	Off-shore petroleum systems of eastern Africa (convened by ENI S.p.A.) / Petroleum systems of the Atlantic margin of Africa (convened by BP Plc)			1.43 - 1.44														
20.4	Petroleum systems of the Atlantic margin of Africa (convened by BP Plc) / Off-shore petroleum systems of eastern Africa (convened by ENI S.p.A.)				1.43 - 1.44													
20.5	Petroleum Systems of Eurasia					1.43 - 1.44												
20.6	Petroleum Systems of Eurasia						1.43 - 1.44											
20.7	Petroleum Systems of Eurasia							1.43 - 1.44										
20.8	Petroleum Systems of Eurasia								1.43 - 1.44									
20.9	New Technology & Techniques in Exploration & Production									1.43 - 1.44								
20.10	New Technology & Techniques in Exploration & Production										1.43 - 1.44							
20.10A	New Technology & Techniques in Exploration & Production										(W) Marco Polo							
THEME 21 - Unconventional Hydrocarbons and Emerging Fuels																		
21.13	Shale gas basins of the southern hemisphere: stratigraphy, sedimentary environments, climate history, tectonics, and structural evolution													1.61				
21.14	Shale gas basins of the southern hemisphere: stratigraphy, sedimentary environments, climate history, tectonics, and structural evolution														1.61			
21.15	Shale gas basins and their resource assessment: global perspectives and challenges															1.61		
21.16	Shale gas basins and their resource assessment: global perspectives and challenges / Tight oil and gas reservoirs: recent developments and future challenges / Unconventional Hydrocarbons and Emerging Fuels																1.61	
21.17	Gas hydrates - a major unconventional energy resource: when will they be produced?																	1.61
THEME 22 - Energy in a Carbon Constrained World																		
22.7	Carbon capture and storage – From reservoir through the full value chain							(W) Marco Polo										

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22.8	Carbon capture and storage – From reservoir through the full value chain								(W) Marco Polo									
22.9	Geothermal Energy									(W) Marco Polo								
THEME 23 - Applied Mineralogy and Geometallurgy																		
23.11	Applied Mineralogy and Geometallurgy / Strategic & Base Metals & Industrial Minerals											(W) Marco Polo						
23.12	Strategic & Base Metals & Industrial Minerals												(W) Marco Polo					
23.13	Precious Metals PGMs & Gold													(W) Marco Polo				
23.14	Applied Mineralogy and Geometallurgy: Technology														(W) Marco Polo			
THEME 25 - Critical metals - a global perspective																		
25.5	General / Critical Metals in Intracontinental Geodynamic Settings					(W) Victoria & Alfred												
25.6	Critical Metals in Intracontinental Geodynamic Settings						(W) Victoria & Alfred											
25.7	Critical Metals in Intracontinental Geodynamic Settings							(W) Victoria & Alfred										
THEME 26 - Resourcing Future Generations																		
26.1	Understanding the Mineral Life Cycle	1.61																
26.2	Understanding the Mineral Life Cycle		1.61															
26.3	Understanding The Mineral Life Cycle / Criticality and Possible Resource Limits			1.61														
26.4	The Urban Mine				1.61													
26.5	The Urban Mine					1.61												
THEME 27 - Gold Mineralizing Systems (jointly sponsored by SEG and SGA)																		
27.10	The Crustal Gold Cycle (jointly sponsored by SEG and SGA)										1.41 - 1.42							
27.11	The Crustal Gold Cycle (jointly sponsored by SEG and SGA)											1.41 - 1.42						
27.12	The Crustal Gold Cycle (jointly sponsored by SEG and SGA)												1.41 - 1.42					
27.13	The Crustal Gold Cycle (jointly sponsored by SEG and SGA)													1.41 - 1.42				
27.14	Geology of gold deposits (jointly sponsored by SEG and SGA)														1.41 - 1.42			
27.15	Geology of Gold Deposits (sponsored by SGA and SEG) / Geochemistry of Lode Gold Deposits (sponsored by SGA and SEG)															1.41 - 1.42		
27.16	Geochemistry of Lode Gold Deposits (sponsored by SGA and SEG)																1.41 - 1.42	
27.17	Geochemistry of Lode Gold Deposits (sponsored by SGA and SEG)																	1.41 - 1.42
THEME 28 - Sedimentary Processes - ancient to modern																		
28.6	Carbonate Sedimentology						1.41 - 1.42											
28.7	Carbonate Sedimentology / Tidal Processes and Products: From Tides to Rock Record							1.41 - 1.42										
28.8	Climatic controls on sedimentary systems and processes								1.41 - 1.42									
28.9	Climatic controls on sedimentary systems and processes									1.41 - 1.42								
28.11	Clastic Marine Depositional Systems / Climatic controls on sedimentary systems and processes											1.43 - 1.44						
28.12	Detrital Zircons in Basin Analysis: Provenance Reconstruction, Chronostratigraphy, Sediment Routing												1.43 - 1.44					
28.13	Detrital Zircons in Basin Analysis: Provenance Reconstruction, Chronostratigraphy, Sediment Routing													1.43 - 1.44				
28.14	Detrital Zircons in Basin Analysis: Provenance Reconstruction, Chronostratigraphy, Sediment Routing / Continental Sedimentation														1.43 - 1.44			
28.15	Continental Sedimentation/ Reading the record of shales: archives of past process, climate and life															1.43 - 1.45		
28.16	Continental Sedimentation / Climatic controls on sedimentary systems and processes / Detrital zircons in basin analysis																1.43 - 1.45	

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THEME 29 - Basin Formation and Continental Margins																		
29.1	Rift basins and rifted margins: architecture and evolution	Hall 4B3																
29.2	Rift basins and rifted margins: architecture and evolution		Hall 4B3															
29.3	Rift basins and rifted margins: architecture and evolution			Hall 4B3														
29.4	Rift basins and rifted margins: architecture and evolution				Hall 4B3													
29.5	Recent advances in foreland basin systems					Hall 4B3												
29.6	Recent advances in foreland basin systems						Hall 4B3											
29.7	Coastal tectonics and sea level change							Hall 4B3										
29.8	Basin analysis and petroleum exploration offshore Brazil and the conjugate margins in Angola, Namibia and South Africa								Hall 4B3									
29.9	Basin analysis and petroleum exploration offshore Brazil and the conjugate margins in Angola, Namibia and South Africa									Hall 4B3								
29.15	New insights into the evolution of the East African and Arabian rift systems from multidisciplinary data and numerical models															Audi 2		
29.16	New insights into the evolution of the East African and Arabian rift systems from multidisciplinary data and numerical models / Unravelling the history of cratonic sedimentary basins																Audi 2	
29.17	Unravelling the history of cratonic sedimentary basins																	Audi 2
THEME 30 - A Dynamic Earth																		
30.1	Geology and Tectonics Of the Himalayan Orogenic Belt	Audi 1																
30.1B	Mechanisms and timescale of West Gondwana amalgamation	(W) Ball-room West																
30.2	Geology and Tectonics Of the Himalayan Orogenic Belt		Audi 1															
30.2B	Ophiolite Record of Oceanic Lithosphere Formation Through Time		(W) Ball-room West															
30.3	Geology and Tectonics Of the Himalayan Orogenic Belt			Audi 1														
30.3A	Interrelationship between Deformation and Metamorphism during Orogenesis			Westin - Ballroom East														
30.4	Geology and Tectonics Of the Himalayan Orogenic Belt				Audi 1													
30.4A	Interrelationship between Deformation and Metamorphism during Orogenesis				Westin - Ballroom East													
30.5	Geology and Tectonics Of the Himalayan Orogenic Belt					Audi 1												
30.6	Geology and Tectonics Of the Himalayan Orogenic Belt						Audi 1											
30.7	Geodynamic and metallogenic processes in the Tianshan orogen and adjacent areas, Central Asia							Audi 1										
30.7A	Supercontinent Cycles and Global Geodynamics (convened by IGCP 648)							(W) Ball-room East										
30.7B	The dynamic Earth and its Kimberlite, Cratonic Mantle and Dia-mond record through time							(W) Ball-room West										
30.8	Geodynamic and metallogenic processes in the Tianshan orogen and adjacent areas, Central Asia								Audi 1									
30.8A	Supercontinent Cycles and Global Geodynamics (convened by IGCP 648)								(W) Ball-room East									
30.8B	The dynamic Earth and its Kimberlite, Cratonic Mantle and Diamond record through time								(W) Ball-room West									
30.9	Geodynamic and metallogenic processes in the Tianshan orogen and adjacent areas, Central Asia									Audi 1								
30.9A	Supercontinent Cycles and Global Geodynamics (convened by IGCP 648)									(W) Ball-room East								
30.9B	The dynamic Earth and its Kimberlite, Cratonic Mantle and Diamond record through time									(W) Ball-room West								
30.10	Geodynamic and metallogenic processes in the Tianshan orogen and adjacent areas, Central Asia										Audi 1							
30.10A	Tectonics of Tethys with an Emphasis on the Geology of Turkey and Iran, and Comparison with Other Tethyan Domains										(W) Ball-room East							
30.10B	The dynamic Earth and its Kimberlite, Cratonic Mantle and Diamond record through time										(W) Ball-room West							

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30.11	Reconstruction of East Asian Blocks in Pangea											Audi 1						
30.12	Reconstruction of East Asian Blocks in Pangea												Audi 1					
30.13	Reconstruction of East Asian Blocks in Pangea													Audi 1				
30.14	Reconstruction of East Asian Blocks in Pangea														Audi 1			
30.15	Dynamic Africa: integrating constraints on the post-Gondwana topographic evolution of Africa and adjacent continents from the core mantle boundary															Audi 1		
30.15A	Geo-hazards and Sustainable Development under climate change scenario															(W) Ball-room East		
30.15B	The Tectonic Evolution of Gondwana IGCP 628															(W) Ballroom West		
30.15C	Secular change in Earth evolution															(W) Marco Polo		
30.16	Dynamic Africa: integrating constraints on the post-Gondwana topographic evolution of Africa and adjacent continents from the core mantle boundary																Audi 1	
30.16A	Geo-hazards and Sustainable Development under climate change scenario																(W) Ball-room East	
30.16B	The Tectonic Evolution of Gondwana IGCP 628																(W) Ball-room West	
30.17	Dynamic Africa: integrating constraints on the post-Gondwana topographic evolution of Africa and adjacent continents from the core mantle boundary																	Audi 1
30.17B	The Tectonic Evolution of Gondwana IGCP 628																	(W) Ball-room West
30.17C	The geodynamics of Phanerozoic sea level change																	(W) Marco Polo
THEME 31 - The Deep Earth																		
31.10	Scientific Drilling on Continents and Oceans										Hall 4B3							
31.11	The Deep Earth											Hall 4B3						
31.12	Lithosphere-Asthenosphere Boundary												Hall 4B3					
31.13	The Deep Earth													Hall 4B3				
31.14	The Deep Earth														Hall 4B3			
31.15	Diamonds and Crustal Recycling into Deep Mantle															Hall 4B3		
31.16	Deep Imaging of the Crust and Lithosphere beneath the Continent and its geodynamics																Hall 4B3	
31.17	Deep Imaging of the Crust and Lithosphere beneath the Continent and its geodynamics																	Hall 4B3
THEME 32 - The Hadean and Archaean Earth																		
32.11	Redox texture of the Archean atmosphere and ocean											Hall 4B4						
32.12	The Hadean and Archaean Earth												Hall 4B4					
32.13	Crust formation and recycling from the Hadean to the late Archaean: The transition to plate tectonics													Hall 4B4				
32.14	Crust formation and recycling from the Hadean to the late Archaean: The transition to plate tectonics														Hall 4B4			
32.15	Crust formation and recycling from the Hadean to the late Archaean: The transition to plate tectonics / The Barberton drilling project															Hall 4B4		
32.16	The Barberton drilling project / Early Earth Mineral Systems																Hall 4B4	
32.17	Early Earth Mineral Systems / Evolution of Archaean cratonic cover successions																	Hall 4B4
THEME 33 - The Proterozoic Earth																		
33.9	Crustal Evolution in the Indian Peninsula: Special Reference to Central Indian Craton									1.62								
33.10	Crustal Evolution in the Indian Peninsula: Special Reference to Central Indian Craton										1.62							

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33.11	Crustal Evolution in the Indian Peninsula: Special Reference to Central Indian Craton / Geodynamics and metallogenesis of the West African Craton											1.62						
33.12	Geodynamics and metallogenesis of the West African Craton												1.62					
33.13	Mesoproterozoic Orogens													1.62				
33.14	Proterozoic magmatic processes; insights into the crustal growth and accretionary events in diverse tectonic settings														1.62			
33.15	Proterozoic magmatic processes; insights into the crustal growth and accretionary events in diverse tectonic settings															1.62		
33.16	Proterozoic Sedimentary Environments																1.62	
33.17	Proterozoic Sedimentary Environments																	1.62
THEME 34 - Geochronology																		
34.1	Geochronology	(W) Prince Edward/ Schappen																
34.2	Geochronology		(W) Prince Edward/ Schappen															
34.3	African Geochronology			(W) Prince Edward/ Schappen														
34.4	Geochronology				(W) Prince Edward/ Schappen													
THEME 35 - Isotope Geoscience																		
35.5	Isotope Geoscience					(W) Sir Francis Drake												
35.6	Isotope Geoscience						(W) Sir Francis Drake											
THEME 36 - Magmatism - Settings, Compositions and Processes																		
36.1	Large Igneous Provinces	1.41 - 1.42																
36.2	Large Igneous Provinces		1.41 - 1.42															
36.3	LIPs/Alkali Complexes			1.41 - 1.42														
36.4	Alkali Complexes/Ophiolites				1.41 - 1.42													
36.5	Granite Keynotes					1.41 - 1.42												
36.7	Granites							(W) Diaz & Da Gama										
36.8	Granites								(W) Diaz & Da Gama									
36.9	Subduction volcanism in modern systems / Magmatism - Palaeovolcanism in subduction and collisional zones									(W) Diaz & Da Gama								
36.10	Magmatism - Palaeovolcanism in subduction and collisional zones / Magmatism - Settings, Compositions and Processes										(W) Diaz & Da Gama							
THEME 37 - Mineralogy																		
37.1	Clays and Clay Minerals/ Fluid and melt inclusion in Minerals	(W) Seal/ Robben																
37.2	Fluid and melt inclusion in Minerals		(W) Seal/ Robben															
37.3	Gems: bringing the World together			(W) Seal/ Robben														
37.4	Gems: bringing the World together				(W) Seal/ Robben													
37.5	Mineralogy					(W) Seal/ Robben												
37.6	Mineralogy						(W) Seal/ Robben											
THEME 38 - Metamorphic Processes																		
38.1	Tectono-thermal evolution of Gondwana: suturing of a supercontinent	(W) Diaz & Da Gama																

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38.2	Tectono-thermal evolution of Gondwana: suturing of a supercontinent		(W) Diaz & Da Gama															
38.3	Metamorphic processes in early Earth evolution			(W) Diaz & Da Gama														
38.4	Metamorphic processes in early Earth evolution				(W) Diaz & Da Gama													
38.5	Metamorphic processes in early Earth evolution					(W) Diaz & Da Gama												
38.6	Challenges in High-grade metamorphism and crustal melting						(W) Diaz & Da Gama											
38.11	Challenges in ultrahigh-temperature (UHT) granulite metamorphism and crustal melting											(W) Diaz & Da Gama						
38.12	Microscale is the key: microstructural and microchemical studies of metamorphic processes to unravel compositional and geodynamic evolution of the Earth												(W) Diaz & Da Gama					
38.13	Microscale is the key: microstructural and microchemical studies of metamorphic processes to unravel compositional and geodynamic evolution of the Earth													(W) Diaz & Da Gama				
38.14	Microscale is the key: microstructural and microchemical studies of metamorphic processes to unravel compositional and geodynamic evolution of the Earth														(W) Diaz & Da Gama			
38.15	HP-UHP metamorphism and tectonic evolution of orogenic belts															(W) Diaz & Da Gama		
38.16	HP-UHP metamorphism and tectonic evolution of orogenic belts																(W) Diaz & Da Gama	
38.17	HP-UHP metamorphism and tectonic evolution of orogenic belts																	(W) Diaz & Da Gama
THEME 39 - Evolution of the Biosphere and Biogeoscience																		
39.7	Stromatolites through time: archives of microbe-sediment interaction							(W) Sir Francis Drake										
THEME 40 - Marine Geosciences and Oceanography																		
40.1	Stratigraphic and morphologic signatures of continental shelves	Ballroom West																
40.2	Stratigraphic and morphologic signatures of continental shelves		Ballroom West															
40.3	Continental Shelves			Ballroom West														
40.4	Continental Shelves				Ballroom West													
40.5	IODP					Ballroom West												
40.6	IODP						Ballroom West											
40.7	Achievements and perspectives in scientific ocean drilling							(W) Seal/ Robben										
40.8	Deep-water circulation: processes & products								(W) Seal/ Robben									
40.9	Deep-water circulation: processes & products									(W) Seal/ Robben								
40.10	Uncovering the great unknown – mapping the Earth's ocean floor										(W) Seal/ Robben							
40.11	Uncovering the great unknown – mapping the Earth's ocean floor											(W) Seal/ Robben						
40.12	Marine Geosciences and Oceanography												(W) Seal/ Robben					
40.13	Marine Geosciences and Oceanography													(W) Seal/ Robben				
THEME 41 - Arctic and Antarctic Geoscience																		
41.9	Mineral and energy resources of the Arctic									2.64 - 2.66								
41.10	Mineral and energy resources of the Arctic/ Advances in Remote Sensing in the Cryosphere for the Polar Regions										2.64 - 2.66							
41.11	Geological and tectonic evolution of the Arctic											2.64 - 2.66						
41.12	Geological and tectonic evolution of the Arctic												2.64 - 2.66					
41.13	Geological and tectonic evolution of the Arctic													2.64 - 2.66				
41.14	Geological and tectonic evolution of the Arctic														2.64 - 2.66			

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41.15	Geological History and Mineral Resources of the Circumpolar Arctic / Precambrian Geology of Antarctica															2.64 - 2.66		
41.16	Precambrian Geology of Antarctica																2.64 - 2.66	
41.17	Antarctic Earth Science / Precambrian Geology of Antarctica																	2.64 - 2.66
THEME 42 - Surficial Processes and Landscape Evolution																		
42.11	Regolith, paleoweathering and continental surface dynamics: from landscape to the global perspective											(W) Prince Edward/ Schappen						
42.12	Surficial Processes and Landscape Evolution												(W) Prince Edward/ Schappen					
42.13	Evolution of sand seas: past, present...and future?													(W) Prince Edward/ Schappen				
42.14	Surficial Processes and Landscape Evolution														(W) Prince Edward/ Schappen			
42.15	Surficial Processes and Landscape Evolution															(W) Prince Edward/ Schappen		
THEME 43 - Rock Deformation and Structural Geology																		
43.11	Rock Deformation and Structural Geology											(W) Sir Francis Drake						
43.12	Rock Deformation and Structural Geology												(W) Sir Francis Drake					
43.13	Rock Deformation and Structural Geology													(W) Sir Francis Drake				
43.14	Rock Deformation and Structural Geology														(W) Sir Francis Drake			
43.15	Rock Deformation and Structural Geology															(W) Sir Francis Drake		
43.16	Rock Deformation and Structural Geology																(W) Sir Francis Drake	
THEME 44 - Palaeontology and Palaeo-anthropology																		
44.1	IGCP 632 Continental Crises of the Jurassic: Major extinction events and environmental changes	Reg Foyer 2																
44.2	IGCP 632 Continental Crises of the Jurassic: Major extinction events and environmental changes		Reg Foyer 2															
44.3	IGCP 632 Continental Crises of the Jurassic: Major extinction events and environmental changes			Reg Foyer 2														
44.4	Palaeozoic-Mesozoic Ecosystems of Gondwana				Reg Foyer 2													
44.5	Palaeozoic-Mesozoic Ecosystems of Gondwana					Reg Foyer 2												
44.6	The Dawn of Animals: Cryogenian to Cambrian						Reg Foyer 2											
44.7	The Dawn of Animals: Cryogenian to Cambrian							Reg Foyer 2										
44.8	The Dawn of Animals: Cryogenian to Cambrian								Reg Foyer 2									
44.9	The Dawn of Animals: Cryogenian to Cambrian									Reg Foyer 2								
44.10	Origin and diversification of Precambrian eukaryotes										Reg Foyer 2							
44.11	Palaeontology and Palaeo-anthropology											Reg Foyer 2						
44.15	Palaeontology and Palaeo-anthropology															Roof Terrace		
THEME 45 - Instrumental, experimental and laboratory-based developments																		
45.5	Unmanned aerial vehicles (UAV)-based technologies for geology and Earth sciences / Applications of X-ray computed tomography in the Earth Sciences					(W) Prince Edward/ Schappen												
45.6	Applications of X-ray computed tomography in the Earth Sciences						(W) Prince Edward/ Schappen											
45.7	Instrumental, experimental and laboratory-based developments in the Geosciences							(W) Prince Edward/ Schappen										

TIME		14:00-15:30	16:00-17:45	08:00-10:00	10:30-12:00	14:00-15:30	16:00-17:45	08:00-10:00	10:30-12:00	14:00-15:30	16:00-17:45	08:00-10:00	10:30-12:00	14:00-15:30	16:00-17:45	08:00-10:00	10:30-12:00	14:00-15:30
SESSION		S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	S15	S16	S17
SYMPOSIUM	TITLE	MONDAY 29		TUESDAY 30				WEDNESDAY 31				THURSDAY 1				FRIDAY 2		
45.8	Instrumental, experimental and laboratory-based developments in the Geosciences								(W) Prince Edward/ Schappen									
45.9	Laser-induced breakdown spectroscopy (LIBS) for the Geosciences									(W) Prince Edward/ Schappen								
45.10	Instrumental, experimental and laboratory-based developments in the Geosciences										(W) Prince Edward/ Schappen							
THEME 46 - Volcanology																		
46.14	Volcanology - Igneous Petrology and Geochemistry														(W) Seal/ Robben			
46.15	Volcanism in Africa															(W) Seal/ Robben		
46.16	Volcanic landforms and sedimentary processes / Open session																(W) Seal/ Robben	
THEME 47 - Phanerozoic Earth History, Stratigraphy and the Geologic Time Scale																		
47.1	Anthropocene: Utility and Definition	Reg Foyer 1																
47.2	Stratigraphy, Sedimentology, and Palaeontology of the Permian–Triassic Boundary Interval, Karoo Basin, South Africa		Reg Foyer 1															
47.3	The Carboniferous World: Assembly of Pangaea and Onset of Late Paleozoic Glaciations			Reg Foyer 1														
47.4	Permian global events and correlations				Reg Foyer 1													
47.5	Permian global events and correlations					Reg Foyer 1												
47.6	IGCP 630: Permian and Triassic integrated Stratigraphy and Climatic, Environmental and Biotic Extremes						Reg Foyer 1											
47.7	IGCP 630: Permian and Triassic integrated Stratigraphy and Climatic, Environmental and Biotic Extremes							Reg Foyer 1										
47.8	IGCP 630: Permian and Triassic integrated Stratigraphy and Climatic, Environmental and Biotic Extremes / Tethys birth to demise: Stratigraphy, Palaeogeography and Tectonic Evolution								Reg Foyer 1									
47.9	Tethys birth to demise: Stratigraphy, Palaeogeography and Tectonic Evolution / The Jurassic System: Timing and causes of major transitions in climate, ecology and biogeochemical cycles on land and in the oceans									Reg Foyer 1								
47.10	Cretaceous sea-level changes and Asia-Pacific Cretaceous Ecosystems (IGCP 609, IGCP 608, ICDP Songliao basin)										Reg Foyer 1							
47.11	Cretaceous time scale and sea-level changes, and Cretaceous Asia-Pacific Ecosystems (IGCP 609, IGCP 608, ICDP Songliao basin) - Part 1											Reg Foyer 1						
47.12	Cretaceous time scale and sea-level changes, and Cretaceous Asia-Pacific Ecosystems (IGCP 609, IGCP 608, ICDP Songliao basin) - Part 2												Reg Foyer 1					
47.13	The Quaternary System: precision and reliability in global correlation													Reg Foyer 1				
47.14	Stratigraphy, Sequence Stratigraphy and Basin Analyses														Reg Foyer 1			
47.15	Early Paleozoic World															Reg Foyer 1		
47.16	Phanerozoic Earth History, Stratigraphy and the Geologic Time Scale / Cretaceous time scale and sea-level changes, and Cretaceous Asia-Pacific Ecosystems (IGCP 609, IGCP 608, ICDP Songliao basin) – Part 1 / Anthropocene: Utility and Definition																Reg Foyer 1	
THEME 48 - Planetary Sciences and Meteorite Impacts																		
48.1	Planetary Geoscience	(W) Sir Francis Drake																
48.2	Planetary Geoscience		(W) Sir Francis Drake															
48.3	Meteorite Impacts and Meteorite studies			(W) Sir Francis Drake														
48.4	Meteorite Impacts and Meteorite studies				(W) Sir Francis Drake													