

# 35<sup>TH</sup> INTERNATIONAL GEOLOGICAL CONGRESS

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



## MONDAY PROGRAMME

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IUGS  
International Union of Geological Sciences



mineral resources  
Department:  
Mineral Resources  
REPUBLIC OF SOUTH AFRICA



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## Monday - Plenary Session 1 Plenary Session 1 Auditorium 1

12:15–13:15

TIME	PAPER #	PAPER TITLE & AUTHOR
12:15	# 5602	Is Africa doing enough to promote its mineral endowment <i>Sipho Nkosi</i>

## Monday - Plenary Session 2 Plenary Session 2 Auditorium 1

12:15–13:15

TIME	PAPER #	PAPER TITLE & AUTHOR
12:45	# 3887	Grand Challenges in the Mineral Life Cycle <i>Dr. Thomas Graedel</i>

## Monday - Session 1 T1.1 - Geoheritage and Geoparks MR 1.62

14:00–15:30

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 5475	Geodiversity, Geoheritage and Geoconservation for Society <i>Prof Murray Gray (KEYNOTE SPEAKER)</i>
14:30	# 3873	Geodiversity, heritage, conservation and society: The role of the journal Geoheritage in raising awareness and disseminating good practice <i>Dr. Kevin Page</i>
14:45	# 4225	Assessing geoheritage significance in studies of palaeoecology – the need to address biocoenoses, thanatocoenoses, biodiversity, palaeo-biodiversity, and quantification <i>Dr. Vic Semeniuk</i>
15:00	# 173	Geology, Landscape and Earth-Life Link in the Kruger National Park <i>Prof. Morris Viljoen</i>
15:15	# 2073	State and prospects of geotourism potential of Uzbekistan <i>Dr. Rustam Mirkamalov</i>

## Monday - Session 2 T1.2 - Geoheritage and Geoparks MR 1.62

16:00–17:45

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 4837	The role of tourist attractions on the Southern Islands of Iran to development of sea-based <i>Ms. Bita Mirzapour</i>
16:15	# 4082	Geology and Geoheritage in the Sahara and Sahel <i>Dr. Sharad Master</i>
16:30	# 5392	Geological and Cultural Landscapes of the Ancient Mapungubwe and Thulamela Citadels <i>Dr. Richard Viljoen</i>
16:45	# 4348	Coastal geomorphological processes shaped iSimangaliso World Heritage Site <i>Dr. Greg Botha</i>
17:00	# 1457	Geopark and Geotourism Development in the Sikkim Himalaya, India <i>Prof. Vinod Tewari</i>
17:15	# 3406	Stratotypes for the public <i>Prof. Patrick De Wever</i>
17:30	# 1041	16th Century mining in Europe and a Shipwreck on the Namibian Coast <i>Dr. Gabriele Schneider</i>

## Monday - Session 1 T3.1 - Launch of PanAfGeo MR 1.63

14:00–15:30

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 5626	Launch of PanAfGeo

## Monday - Session 2 T3.2 - Launch of PanAfGeo MR 1.63

16:00–17:45

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 5576	PanAfGeo: Evolution of a milestone in European and African geological collaboration <i>Mr. Koen Verbruggen (KEYNOTE SPEAKER)</i>



16:30	# 3487	Environmental Management of Mines <b>Mr. Berndt Pettersson</b>
16:45	# 3488	PanAfGeo: Artisanal and Small-scale Mining in Africa <b>Dr. John Tychsen</b>
17:00	# 3504	PanAfGeo project: A Pan African support to the EGS-OAGS partnership <b>Mr. Jean-Claude Guillaneau</b>
17:15	# 3590	PanAfGeo Project: Geoscience information management <b>Dr. Marc Urvois</b>
17:30	# 3626	PanAfGeo Project: Mineral Resources <b>Mrs. Riitta Teerilahti</b>
17:45	# 3774	Capacity Building on Geohazards in Africa - PanAfGeo Project <b>Dr. Jonas Satkunas</b>
18:00	# 4585	Perspectives on geoheritage research and promotion for African geological survey organizations <b>Dr. Enrique Díaz-Martínez</b>

**Monday - Session 1****14:00–15:30****T4.1 - Climate Change Studies  
Hall 4B4**

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 4230	Climatic variability in western Mexico during Holocene (10,000 BP) interpreted from diatom and pollen record in sediment from Lake Chapala. (CHAPHOLO Project, Conacyt Grant 168685) <b>Dr. Pedro Zarate-Del Valle</b>
14:15	# 844	Lower Gondwana Cryosphere of the Sikkim Lesser Himalaya, (Himalayan Gondwana), India <b>Prof. Vinod Tewari</b>
14:30	# 637	Statistical parameter study of conductive anomalies and concept of a flow pattern in the shelf environment: instance of the regions, IFOU GBEKE (Centre region of Côte d'Ivoire) and BAGOUÉ (North Region of Côte d'Ivoire) <b>Mr. Kouao Laurent Kouadio</b>
15:00	# 1553	Impact of climate change on livelihood of Central Himalayan communities <b>Dr. Mahabir Singh Negi</b>
15:15	# 3376	Climate Change- Identification of Deep Saline Aquifer for CO <sub>2</sub> Sequestration in Bikaner-Nagaur Basin, Rajasthan, India <b>Dr. Devinder Kumar Chadha</b>

**Monday - Session 2****16:00–17:45****T4.2 - Climate Change Studies / Climate Change Impact on Global Water Resources  
Hall 4B4**

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 2040	Temporal and spatial changes of effective precipitation and their key role in climate change impact on groundwater in Central Europe <b>Mr. Peter Malik</b>
16:15	# 4716	Characterising Groundwater Hydrology of Krishna-Godavari Basins <b>Ms. Harika Munagapati / Mr. Radheshyam Yadav</b>
16:30	# 5451	Recent glacier extent and mass balance survey in the Rwenzori Mountains, Uganda/D.R. Congo <b>Dr. Denis Samyn</b>
16:45	# 2313	Capacity building for climate change adaptation in Tajikistan <b>Mr. Aziz Gulamadshoev</b>
17:00	# 945	Climate variability of the Asian monsoon and Westerlies as seen through speleothem records <b>Dr. Hai Cheng</b>
17:15	# 2953	New results on Late Quaternary geochronology of Caspian Sea based on OSL-dating <b>Mr. Nikolai Tkach</b>
17:30	# 3623	Reconstructing glacier change post-Little Ice Age (LIA) in the North-Western Himalaya, India: an overview and specific examples <b>Mr. Pritam Chand</b>

**Monday - Session 1****14:00–15:30****T5.1 - Hydrogeology and Hydrochemistry of Arid and Semi-Arid Africa: A Tribute to W. M. Edmunds  
MR 2.64 - 2.66**

TIME	PAPER #	PAPER TITLE & AUTHOR
10:30	# 4748	Groundwater recharge in Africa: identifying critical thresholds <b>Prof. Alan MacDonald</b>



# Monday 29 August

10:45	# 196	Groundwater exploration using electromagnetic frequency domain and electroseismic sounding methods in Kalahari sands and Karoo Sequence in Zimbabwe <b>Mr. Joseph M Zulu</b>
11:00	# 2599	Hydrogeological investigation to protect the Itawa Spring in Ndola, Zambia <b>Dr. Tobias El-Fahem</b>
11:15	# 2600	Groundwater Resources Management for Lusaka Water Supply, Zambia <b>Dr. Tobias El-Fahem</b>
11:30	# 3852	Deep Groundwater Systems in Southern Africa - from occasional findings towards an exploration strategy <b>Dr. Thomas Himmelsbach</b>
11:45	# 525	Groundwater resources of Burundi. New elements and decision making tools. <b>Dr. Alexis Gutierrez</b>

## Monday - Session 2

16:00–17:45

### T5.2 - Hydrogeology and Hydrochemistry of Arid and Semi-Arid Africa: A Tribute to W. M. Edmunds MR 2.64 - 2.66

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 2188	Regional exploration technique of groundwater resource in the Precambrian areas of Mozambique through an integration of Topographic and Geophysical data <b>Mr. Luis Magaia</b>
16:15	# 4142	An assessment of groundwater contamination at the Empangeni and Richards Bay landfill areas, Kwazulu-Natal, South Africa <b>Dr. Vetrimurugan Elumalai</b>
16:30	# 4614	Groundwater Resource Assessment of the deep confined Peninsula Aquifer in Blossoms (Oudtshoorn), Western Cape, South Africa <b>Mr. David McGibbon</b>
16:45	# 4605	Cape Flats Aquifer and False Bay - opportunities to change <b>Mr. David McGibbon</b>
17:00	# 4762	Investigating the hydrogeological conditions of the deep formation in the southern Karoo Basin – Case study of the KARIN-CIMERA KFZ-1 hole <b>Mr. Fanie De Lange</b>
17:15	# 4840	Groundwater resources of the Danakil Depression (northeastern Ethiopia) – hydrogeology in the hottest place on Earth <b>Mr. Dylan Blake</b>
17:30	# 5066	Combination of geological and geophysical data for the determination of aquifer geometry in a complex hydrosystem. Application to Plio-Quaternary aquifer Dradere Soueire basin (Moulay Bouselham Region - North Western Morocco) <b>Mr. Issam Bougarn</b>

## Monday - Session 1

14:00–15:30

### T6.1 - Forensic Soil Science and Geology Westin - Victoria & Alfred

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 3078	Successes and failures in detecting buried non-metallic objects using ground (and water) penetrating radar (WPR & GPR) <b>Dr. Alistair Ruffel</b>
14:15	# 3649	A GIS-based landscape approach to Forensic Search Strategies and RAG mapping <b>Dr. Jennifer McKinley</b>
14:30	# 4695	Analysis of leachate, VOCs, fatty acids and mineralogy following the discovery of a homicide grave: Potential implications for police led open area ground searches for burials <b>Dr. Laurance Donnelly</b>
14:45	# 1359	Establishing Australia's first body farm - the Australian Facility for Taphonomic Experimental Research (AFTER) <b>Prof. Shari Forbes</b>

## Monday - Session 2

16:00–17:45

### T6.2 - History and Future of Forensic Soil Science and Geology / Recent Developments Westin - Victoria & Alfred

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 4051	The Importance of the Field of Forensic Soil Examination being Aligned with the Wider Discipline of Forensic Science <b>Prof. Hilton Kobus</b>
16:15	# 3838	Geological Society of London (GSL), Forensic Geoscience Group (FGG); the first 10 years and the International Union of Geological Sciences (IUGS), Initiative on Forensic Geology (IFG); the first 5 years <b>Dr. Laurance Donnelly</b>
16:30	# 64	Igneous Phosphate Resources of East and South east Africa <b>Mr. Wondafrash Mammo Ghebre</b>
16:45	# 4233	Introduction to the Exploitation of Microscopic Traces for the Geo-sourcing of Forensic Soil and Dust Evidence: Methods and Examples from Casework <b>Mr. Skip Palenik</b>



17:00	# 4215	Predicting the origin of soil evidence: high throughput eukaryote sequencing and MIR spectroscopy applied to a crime scene scenario <i>Dr. Jennifer Young</i>
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**Monday - Session 1****14:00–15:30****T7.1 - Geoscience Information and Data in Africa  
MR 2.44 - 2.46**

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 5368	Sustainable Geoscience Information In Africa - The GIRAF Network And Its Future Development <i>Dr. Kristine Asch</i>
14:15	# 2926	Towards geoscientific data integration: Challenges, Approaches and Implementation <i>Mrs. Magda Roos</i>
14:30	# 5458	Harmonization of Geoscience data in Africa to enhance geoscientists interaction for knowledge transfer and exchange of experience <i>Mr. Mesfin Wubeshet Gebremichael</i>
14:45	# 5598	Geoscience Data in Africa – Lesotho <i>Mr. Ishmael Hareteke Khalema</i>
15:00	# 5597	Towards geospatial information partnerships within the Southern African Customs Union <i>Mr. Lopang Maphale</i>
15:15	# 5398	Contribution of Geological Data to the Namibian National Spatial Data Infrastructure <i>Mrs. Anna-Karren Nguno</i>

**Monday - Session 2****16:00–17:45****T7.2 - Geoscience Information and Data in Africa  
MR 2.44 - 2.46**

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 5452	The south eastern 'basement' complex of South Sudan <i>Mr. Timothy Marais</i>
16:15	# 4788	Historical perspective, role and challenges in the use of geosciences information in mineral resources exploitation and in planning for social-economic development in Zambia. <i>Mr. Vincent Kawamya</i>
16:30	# 5596	The application of historical geological and airborne data in Mining Industry – case of coal sector in Mozambique <i>Mr. Alfredo Pontavida</i>
16:45	# 5592	Importance of Geographic Information Systems (GIS) in mapping the spatial distribution, uses and impacts of neglected development minerals: Case studies in some administrative districts near Accra, Ghana <i>Mrs. Rosemary Okla</i>
17:00	# 2328	Regional GIS based exploration targeting studies in data poor environments: A case study of gold prospectivity mapping in Nigeria <i>Dr. Matthew Greentree</i>
17:15	# 5594	Spatial relationships between contaminated mining areas and pathological states around Kadoma, Zimbabwe <i>Ms. Daina Mudimbu</i>
17:30	# 3388	Seismotectonic features of the African plate: The possible dislocation of a continent <i>Dr. Robert Tomas</i>

**Monday - Session 1****14:00–15:30****T8.1 - Geohazards  
Hall 4B2**

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 791	Understanding disaster risk through building knowledge capacity – A best practice example from Latin America to leverage the Hyogo/Sendai-Framework for Action <i>Dr. Dirk Balzer</i>
14:15	# 2263	The influence of atmospheric dynamics on erosion hazard: A conceptual note <i>Mr. Edmore Kori</i>
14:30	# 4597	Radon and seismotectonics in parts of Shillong Plateau <i>Dr. Devesh Walia</i>
14:45	# 5591	Opportunities in Disasters – A perspective from the Christchurch 2010 – 2012 Earthquake Series <i>Ms. Ann Williams</i>
15:00	# 3961	Historical storm analysis as an indicator of future flood risk in KZN, RSA <i>Dr. Riaan Botes</i>
15:15	# 1270	Tectonic geomorphology and paleoseismology of the Gatún fault in central Panamá: seismic hazards and the Panamá Canal <i>Eldon Gath</i>



## Monday - Session 1

14:00–15:30

### T8.1a - Geohazards: Prevention, risk reduction, early warning and preparedness Roof Terrace

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 3723	The Use of Geographical Information Systems (GIS) in Seismic Microzonation Studies <i>Prof. Dr. Orhan Tatar</i>
14:15	# 4828	Foreshock activity as a component of the seismic early warning <i>Dr. Gerasimos Papadopoulos</i>
14:30	# 5502	Landslide environment in pakistan after the earthquake-2005 <i>Shahina Tariq</i>

## Monday - Session 2

16:00–17:45

### T8.2 - Geohazards and societal benefits: coping with reality / Risk evaluation and management in the 21st Century Hall 4B2

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 2675	Cyclones, tsunamis and Polynesian occupation – a 3500 year record from Mangaia in the South Pacific <i>Dr. Catherine Chague-Goff</i>
16:15	# 1103	Tsunamigenic slope failures in the Pacific – an inconvenient truth <i>Prof. James Goff</i>
16:30	# 3393	ITRAX applications in palaeotsunami research – pushing the limits <i>Dr. Catherine Chague-Goff</i>
16:45	# 3020	Previously undocumented widespread subduction on the western side of the Alpine Fault, New Zealand <i>Prof. James Goff</i>
17:00	# 2221	Japan's nuclear regulation standards against natural hazards after Fukushima <i>Dr. Akira Ishiwatari</i>
17:15	# 4117	The use of GRASS QGIS in detailed mapping of slopes in the Greater Tzaneen Local Municipality, Limpopo Province, South Africa <i>B.D.O Odhiambo</i>
17:30	# 4814	Tsunami risk assessment with GIS methods: cost from building damage and evacuation mapping <i>Ms. Ioanna Triantafyllou</i>

## Monday - Session 2

16:00–17:45

### T8.2a - Geohazards Roof Terrace

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 3713	Seismotectonic map and geodynamic evolution in Northwest Africa (Maghreb region and Western Mediterranean) <i>Prof. Abdelhakim Ayadi</i>
16:15	# 2439	Considering geological structures in landslide susceptibility assessment: A case study in Yen Bai Province, Vietnam <i>Mr. Nguyen Ho Khanh</i>
16:30	# 162	Fault zone architecture and evaluation of its fault sealing properties, Xiahong North Fault in Junggar Basin <i>Dr. Kongyou Wu</i>
16:45	# 2783	Geo-hazard assessment, remote sensing and European Cultural Heritage: the PROTHEGO project <i>Daniele Spizzichino</i>
17:00	# 2496	Landslide inventory mapping at 1:50,000 scale in the fourteen Northern provinces of Vietnam: achievements and difficulties <i>Ms. Nguyen Thi Hai Van</i>

## Monday - Session 1

14:00–15:30

### T10.1 - General contributions on the history of geology MR 1.64

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 1257	An empire of water, islands of fire: Perspectives on 18th-century geology <i>Prof. Kenneth Taylor (KEYNOTE SPEAKER)</i>
14:30	# 4490	Dr. Woodward's Cabinet of Dangerous Dreams: Geology in the Age of Enlightenment <i>Dr. Kenneth McNamara</i>
14:45	# 1641	Contribution of Ignacy Domeyko (1802 – 1889) for geology of Poland, Lithuania and Chile <i>Prof. Marek Graniczny</i>
15:00	# 3706	Development of geological and geophysical cartography in Poland (XVIII – XXI cent.) <i>Prof. Piotr Krzywiec</i>
15:15	# 3926	Cambrian System in Siberia – discovery “at a desk” <i>Mr. Leonid Kolbantsev</i>



## Monday - Session 2

16:00–17:45

T10.2 - General contributions on the history of geology  
MR 1.64

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 4098	Viktor Moritz Goldschmidt (1888–1947) and Vladimir Ivanovich Vernadsky (1863–1945): The father and grandfather of geochemistry? <b>Prof. Axel Muller</b>
16:15	# 5564	Discussions and their role in the development of geological sciences <b>Prof. Gennadiy Trifonov</b>
16:30	# 2860	Claims on the Past: Cave Excavations by the SS Research and Teaching Community “Ahnenerbe” (1935–1945) <b>Dr. Johannes Mattes</b>
16:45	# 530	The Naumann elephant <b>Dr. Michiko Yajima</b>
17:00	# 693	When I was hunting dinosaurs in Africa (1965-2015) <b>Dr. Philippe Taquet</b>

## Monday - Session 1

14:00–15:30

T12.1 - Geoethics – General Aspects  
MR 2.41 - 2.43

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 3176	Geoethics: a new way of thinking and managing the Earth <b>Dr. Silvia Peppoloni (KEYNOTE SPEAKER)</b>
14:30	# 932	Towards Increased Engagement of Geoscientists in Global Sustainable Development Frameworks <b>Mr. Joel Gill</b>
14:45	# 3928	An overview on geoethical perspectives in the Democratic Republic of Congo <b>Mr. Jean-Robert Mweze</b>
15:00	# 3224	Ethical Requirements for Applied Earth System Science and Engineering <b>Dr. Martin Bohle</b>
15:15	# 4274	Unconventional proposals for prevention of environmental/social risks <b>Dr. Francesca Luger</b>

## Monday - Session 2

16:00–17:45

T12.2 - Geoethics and Geoscience Organisations  
MR 2.41 - 2.43

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 2119	Scientific Integrity and Professional Ethics at AGU – The Role for a Large Scientific Society in Addressing Harassment and Work Climate Issues <b>Christine McEntee (KEYNOTE SPEAKER)</b>
16:30	# 4525	Geoethics and the Global Geoparks of UNESCO: the necessary link for the assertion of Geoparks worldwide <b>Dr. Artur Sá</b>
16:45	# 4188	Dilemmas in Promoting Growth in the Geoscience Discipline <b>Dr. Christopher Keane</b>
17:00	# 5091	Socrates' rocks: how professional accreditation may help promoting geo-ethics, and why the pioneering stage is challenging <b>Dr. Michiel van der Meulen</b>
17:15	# 3287	Moving Africa forward: the African women geoscientists <b>Prof. Ezzoura Errami</b>

## Monday - Session 1

14:00–15:30

T14.1 - Environmental Management of Water Resources  
MR 2.61 - 2.63

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 4135	Sustainable Options to Manage Acid Mine Drainage in the Witwatersrand Gold Fields <b>Dr. Henk Coetzee (KEYNOTE SPEAKER)</b>
14:30	# 4080	Environmental Monitoring Programme – Northern Mozambique and South Malawi <b>Mr. Simplicio Chivambo</b>
14:45	# 3308	Groundwater basin management based on monitoring system - Groundwater level and land subsidence, Kanto Groundwater Basin in Japan <b>Mr. Kunio Furuno</b>
15:00	# 2284	Modeling of Basic Water Quality and Fate of Organic Contaminants in Swarna River Basin, Southwestern India <b>Dr. Hn Udaya Shankara</b>



# Monday 29 August

## Monday - Session 2

16:00–17:45

### T14.2 - Environmental Management of Water Resources / Environmental Aspects in the Mining Industry MR 2.61- 2.63

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 2280	Application of QUAL2Kw as a Modelling Tool for Water Quality Modelling in Swarna River, South-western India <b>Dr. Udaya Shankara Harikripa Narayana</b>
16:15	# 204	A Study of the Vulnerability of a South African Coastal Plain Aquifer to Seawater Intrusion Using the GALDIT Index Method <b>Dr. Molla Demlie</b>
16:30	# 32	Heavy Metals Pollution of Streams and River Sediments in parts of Akpabuyo Local Government Area, Nigeria and its Implication for Agricultural Practices and Environmental Protection <b>Prof. Barth Ekwueme</b>
16:45	# 5096	The bioremediation of thiocyanate from gold mine tailings <b>Dr. Mathew Watts</b>
17:00	# 4965	Oxygen diffusion and geochemical speciation in abandoned gold mine tailings dams of the Witwatersrand <b>Mr. Johan Fourie</b>
17:15	# 4657	The distribution of some potentially harmful elements (PHEs) in the Krugersdorp Game Reserve, Gauteng, South Africa: Implications for wildlife health <b>Dr. Michael Shapi</b>
17:30	# 4531	Ground movement as a result of dewatering in the Far West Rand area of Johannesburg resulting in the formation of Sinkholes and Dolines <b>Mr Kedibone Phogole</b>

## Monday - Session 1

14:00–15:30

### T15.1 - Dimension stone and building materials (sponsored by IAEG C-10, HSTG and IGCP 637) Hall 4B1

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 5257	The deterioration of building stones by salt crystallization <b>Dr. Maria Heloisa Barros De Oliveira Frascá</b>
14:15	# 894	Natural Stones of Malawi: Key to Economic and Sustainable Development <b>Ms. Tamara Faith Kamanga</b>
14:30	# 5018	Impacts of anisotropy of the fossil content on the electric behaviour and anisotropy of the highly fossiliferous limestone of Samalut Formation, Egypt: A case study <b>Dr. Bassem Nabawy</b>
14:45	# 1419	"Giallo Siena" marble (Italy): a nomination for "Global Heritage Stone Resource" <b>Dr. Piero Primavari</b>

## Monday - Session 2

16:00–17:45

### T15.2 - Dimension stone and building materials (sponsored by IAEG C-10, HSTG and IGCP 637) Hall 4B1

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 3364	Heritage stones as part of the Global Geoheritage <b>Dr. Björn Schouenborg</b>
16:15	# 3363	Martinamor granite, revisited <b>Dr. Lola Pereira</b>
16:30	# 4264	Estremoz Marble: A nomination for 'Global Heritage Stone Resource' from Portugal <b>Prof. Luís Lopes</b>
16:45	# 356	Heritage Stone in South Australia <b>Prof. Barry J. Cooper</b>
17:00	# 1418	Botticino marble (Italy): a nomination for "Global Heritage Stone Resource" <b>Dr. Piero Primavari</b>
17:15	# 1964	Lower Cretaceous building sandstones in NW-Germany and their worldwide use <b>Dr. Angela Ehling</b>
17:30	# 4842	The significance of Macael region (SE of Spain) in the use of the natural stone in Spain <b>Dra. Dolores Pereira</b>

## Monday - Session 1

14:00–15:30

### T16.1 - IAMG Plenary Session Westin - Ballroom East

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 5633	IAMG Award Ceremony
14:15	# 5634	MATHERON LECTURE: The Geostatistical Invasion of the Petroleum Industry; One Perspective from an Applied Geostatistician <b>Dr. Jeffrey Yarus (KEYNOTE SPEAKER)</b>



**Monday - Session 2**  
**T16.2 - IAMG Plenary Session**  
**Westin - Ballroom East**

16:00–17:45

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 5570	KRUMBEIN LECTURE: The stochastic modelling and simulation of fractures in rock masses <b>Prof. Peter Dowd (KEYNOTE SPEAKER)</b>
17:00	# 5557	GRIFFITHS AWARD: From constant sum constraint to association of compositional variables <b>Dr. Juan Jose Egozcue (KEYNOTE SPEAKER)</b>

**Monday - Session 1**  
**T17.1 - Mineral deposit footprints**  
**Auditorium 2**

14:00–15:30

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 5179	Brownfield Exploration as a Strategic Initiative to Reviving Non-Operational Mines in the Central Rand <b>Mr. Manie Swart</b>
14:15	# 230	Implications of New Geophysical and Lead Isotopic Data on Localization of Giant Zinc Sulphide Body at Agucha in Western India <b>Dr. Prakash Ramchand Golani</b>
14:30	# 433	Fluid inclusion microthermometry and sulphur isotopic studies of the base metal mineralization in Minjhari area, Western Bastar Craton, India <b>Dr. Velayutham Kumaravel</b>
14:45	# 1507	Carbonate alteration as identified by staining as a vector to orogenic gold mineralization <b>Dr. Johannes Henckel</b>
15:00	# 3478	The importance of Dwyka Group glaciation with regards to alluvial diamond transportation, concentration and entrapment in South Africa <b>Mr. Pieter Bosch</b>

**Monday - Session 2**  
**T17.2 - Mineral deposit footprints**  
**Auditorium 2**

16:00–17:45

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 5211	The Orange and Riet River alluvial diamond deposits in the vicinity of Douglas, Northern Cape Province: geology, evaluation, and exploitation of unique South African large diamond producing deposits <b>Mr Lyndon De Meillon</b>
16:15	# 5342	Bisie - World's Largest and Richest Undeveloped Tin Deposit <b>Ms. Helen Pein</b>
16:30	# 4455	Chemostratigraphy and geochemical vectoring at the Rapla prospect, Rathdowney Trend, Ireland <b>Mr. Oakley Turner</b>
16:45	# 4959	The Groenfontein and Zaaiploots Tin Deposits – a model for the future of Tin Exploration? <b>Dr. Luke Longridge</b>
17:00	# 5053	The "Montaña de Manganeso" Mn deposit, San Luis Potosí, Mexico: mineralizing fluids and deposit typology <b>Mr. Joseph Madondo</b>
17:15	# 5366	Vanadium, Iron, Titanium and Phosphate mineralisation in the Upper Zone of the Northern Limb of the Bushveld Complex <b>Mr. Troth Saindi</b>
17:30	# 5400	Prospectivity mapping of the Bushveld granite-related mineralisation in selected areas, South Africa <b>Mr. Litshedzani Mutele</b>

**Monday - Session 1**  
**T18.1 - Ore-forming processes associated with hypabyssal magmatic and related volcanic systems**  
**(Sponsored by IAGOD)**  
**Ballroom East**

14:00–15:30

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 5292	Links between porphyry and IOCG deposits <b>Prof. Jeremy P. Richards (KEYNOTE SPEAKER)</b>
14:30	# 5341	Primary fluid chemistry: the key driver of metal budgets and dispersion geochemistry in hydrothermal ore systems? <b>Dr. Jamie Wilkinson</b>
14:45	# 3678	Vapours, Volcanoes and Ore Formation <b>Prof. Anthony Williams-Jones (KEYNOTE SPEAKER)</b>
15:15	# 4735	Porphyry copper enrichment linked to excess <b>Dr. Ben Williamson</b>



## Monday - Session 2

16:00–17:45

### T18.2 - Ore-forming processes associated with hypabyssal magmatic and related volcanic systems

(Sponsored by IAGOD)

Ballroom East

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 2733	Mineralogy and chemistry of alteration zone associated with massive sulphide ores of the Ariab district, Red Sea Hills, Sudan <b>Dr. Samia Ibrahim</b>
16:15	# 5307	The sources of ore-forming materials from the Anqing skarn type Cu-Fe deposit, Anhui Province, China <b>Mr. Guangshu Yang</b>
16:30	# 963	Volcanic-Hosted Massive Sulphide Deposits in mainland SE Asia: Their Potential and Prospectivity <b>Prof. Khin Zaw</b>
16:45	# 1476	IOCG deposits on the Palaeozoic-Mesozoic continental margins: a deposit clan formed during basin inversion <b>Prof. Huayong Chen</b>
17:00	# 2067	The 2650 Ma to 2600 Ma Magmatic Event and its Economic Importance for the Archean LCT Pegmatite Budget <b>Prof. Thomas Seifert</b>
17:15	# 905	Lithospheric and tectonic settings of IOCG systems in Australia <b>Dr. Roger Skirrow (KEYNOTE SPEAKER)</b>

## Monday - Session 1

14:00–15:30

### T19.1 - Coal

Westin - Marco Polo

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 4686	The coalfields of south-central Africa: a current perspective <b>Dr. Philip John Hancox</b>
14:15	# 3129	The Mpumalanga Coal Coalfields: Quality, Quantity variations and Environmental Issues through time and space <b>Mr. Papi Kekana</b>
14:30	# 544	Mechanical system of coal & gas outburst <b>Dr. Xubiao Deng</b>
14:45	# 4720	Grooteegeluk Mine Geology <b>Mr. Callie Van Heerden</b>
15:00	# 4391	Variation of coal petrographic composition on either side of the Tshipise fault, Soutpansberg coalfield, South Africa <b>Prof. Nicola Wagner</b>

## Monday - Session 2

16:00–17:45

### T19.2 - Coal

Westin - Marco Polo

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 4672	The Coal Deposits of Mozambique <b>Mr. Andy Lloyd</b>
16:30	# 3381	Petrographic Characteristics of the Low Sulphur Coals from the Campanian-Maastrichtian Mamu Formation, Anambra Basin, South East Nigeria. <b>Dr. Izuchukwu Mike Akaegbobi</b>
17:00	# 235	Deep seated occurrence of coal below Upper Gondwana Litho units in Bayyaram Area , Godavari Valley Coalfield, Khammam district, Telangana State, India <b>Mr. Rajesh S</b>
17:15	# 4688	The coals at the P/T boundary in southern China: their petrology, mineralogy and isotope geochemistry <b>Prof. Longyi Shao</b>

## Monday - Session 1

14:00–15:30

### T20.1 - Petroleum systems of the On-shore basins of Africa (convened by Tullow Oil Ltd)

MR 1.43 - 1.44

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	–	<b>INTRODUCTION</b> <b>Mr. Ian Cloke</b>
14:15	# 3036	The Influence of the Timing of Subsidence and Climate in determining whether Individual Rift Basins will become Petroliferous or not <b>Mr. Paul Burden (KEYNOTE SPEAKER)</b>
14:45	# 4913	The Petroleum System of the South Lokichar Basin, Kenya (EARS) <b>Mr. Gion Kuper (KEYNOTE SPEAKER)</b>

**Monday - Session 2****16:00–17:45****T20.2 - Petroleum systems of the On-shore basins of Africa (convened by Tullow Oil Ltd)  
MR 1.43 - 1.44**

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 5492	Oil Reservoirs and Traps in the Albertine Rift of Uganda <b>Richard Steele (KEYNOTE SPEAKER)</b>
16:30	# 5491	The Mid Zambezi Basin – could this be the ‘Karoo’ basin that works? <b>Nigel Quinton (KEYNOTE SPEAKER)</b>
17:00	# 5178	Developing a regional geological framework for the Horn of Africa <b>Dr. John Fisher (KEYNOTE SPEAKER)</b>

**Monday - Session 1****14:00–15:30****T26.1 - Understanding the Mineral Life Cycle  
MR 1.61**

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 3510	Impact of global change on resources – exploration to markets <b>Dr. John Thompson (KEYNOTE SPEAKER)</b>
14:30	# 815	African Copper <b>Prof. Murray Hiltzman</b>
14:45	# 175	Mineralisation in the Bushveld Complex <b>Prof. Morris Viljoen</b>
15:00	# 4006	Mineral Resources - Supply, Demand, and the Future <b>Dr. Lawrence Meinert</b>
15:15	# 3121	Innovative uses of geological materials as crop nutrients <b>Prof. David Manning</b>

**Monday - Session 2****16:00–17:45****T26.2 - Understanding the Mineral Life Cycle  
MR 1.61**

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 1158	Submarine mineral resources: who will mine them and who will reap the benefits? <b>Prof. Nicholas Arndt</b>
16:15	# 1805	Resourcing Future Generations <b>Mr. Edmund Nickless</b>
16:30	# 5509	Promoting RFG in conjunction with China’s “the Belt and the Road” initiative <b>Anjian Wang</b>
16:45	# 3987	EIT RawMaterials, a new European initiative in Raw Materials <b>Dr. Karen Hanghøj</b>
17:00	# 4825	Europe and Japan: Common challenges and threats on the supply of mineral raw materials <b>Dr. Kip Jeffrey</b>
17:15	# 3048	The Dynamic Nature of Resource Availability: The Cases of Copper and Rare Earths <b>Prof. Roderick Eggert</b>
17:30	# 3372	Global Trends in Mineral Commodities for Advanced Technologies <b>Dr. Steven Fortier</b>

**Monday - Session 1****14:00–15:30****T29.1 - Rift basins and rifted margins: architecture and evolution  
Hall 4B3**

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 5017	Linking lithosphere deformation and sedimentary basin formation over multiple scales <b>Prof. Ritske S. Huismans</b>
14:15	# 5030	Long-term coupling and feedbacks between surface processes and tectonics during rifting <b>Prof. Ritske S. Huismans</b>
14:30	# 5027	The critical role of extension-orthogonal shears in oblique rift development <b>Prof. Ritske S. Huismans</b>



# Monday 29 August

14:45	# 1331	Crustal structure and evolution of the Kenya-Tanzania shear margin <b>Dr. Jean-Claude Ringenbach</b>
15:00	# 4973	Magmatic underplating in continental lithosphere <b>Prof. Hans Thybo / Prof. Irina Artemieva</b>
15:15	# 5526	Exploring the contrasts between fast and slow rifting <b>A De Montserrat</b>

## Monday - Session 2 T29.2 - Rift basins and rifted margins: architecture and evolution Hall 4B3

16:00–17:45

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 4303	Basin architecture and evolution at NE Atlantic conjugate margins <b>Prof. Jan Inge Faleide</b>
16:15	# 1075	Mechanisms of crustal extension in the Basin and Range Province <b>Prof. Nicholas Christie-Blick</b>
16:30	# 2790	Deepening events and sediment routing systems in migrating rifts. Insights from the Corinth rift <b>Prof. Mary Ford</b>
16:45	# 1167	The Structure and Sequence Stratigraphic Architecture Evolution of Rifting Stage, Lishu Faulted-depression, Songliao Basin, China <b>Prof. Hongyu Wang</b>
17:00	# 1477	On the Linkage of the Western Boundary Faults of the South China Sea <b>Dr. Yongjian Yao</b>
17:15	# 599	Tectonic stress evolution and a new origin model of Bohai Bay basin, China <b>Prof. Hengmao Tong</b>

## Monday - Session 1 T30.1 - Geology and Tectonics Of the Himalayan Orogenic Belt Auditorium 1

14:00–15:30

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 3410	Himalayan coesite eclogites: ages and characteristics of prograde, peak and exhumation features and geotectonic implications <b>Prof. Patrick O'Brien (KEYNOTE SPEAKER)</b>
14:30	# 3993	Detrital zircon micro-geochronology across the Main Central Thrust (MCT), Uttarakhand Himalaya: Implications for Lesser Himalaya and Higher Himalayan terrane characterization. <b>Pulok K Mukherjee</b>
14:45	# 167	Experimental Study of the Blueschists and Marble-bearing High Pressure Metamorphic Belt of Rongma Area in the Central Qiangtang, Tibet <b>Prof. Guo-Li Yuan</b>
15:00	# 236	Combining petrographic and geochemical studies to understand the mode of emplacement of Himalayan granites from Arunachal Pradesh, Northeastern India <b>Dr. Santanu Bhattacharjee</b>
15:15	# 434	Rare occurrence of Gahnite in Main Central Thrust zone of Western Arunachal Himalaya, Arunachal Pradesh, India: implications for Shear heating <b>Dr. Sandip Nandy</b>

## Monday - Session 1 T30.1b - Mechanisms and timescale of West Gondwana amalgamation Westin - Ballroom West

14:00–15:30

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 3472	Dating rocks from the Central Zone, Damara belt, Namibia: Time constraints on orogenic events <b>Dr. Gerrit de Kock</b>
14:15	# 247	Volcanic arc turbidites of the Ediacaran Rocha Formation linked to the Brasiliano Orogeny and Kalahari Craton (Cuchilla Dionisio Terrane, Uruguay) <b>Dr. Gonzalo Blanco</b>
14:30	# 5034	Contrasting cooling rates of two Brasiliano terranes in SE Brazil using 40Ar/39Ar data – the Gondwana collage propagates through the Silurian -Devonian <b>Dr. Renata S. Schmitt</b>
14:45	# 4963	Timing of tectonic events in the Central Zone and the case for subduction in the of the Damara Belt, Namibia <b>Dr. Luke Longridge</b>
15:00	# 3932	How to make a triple junction – new evidence for the assemblage of Gondwana along the Kaoko-Damara Belts, Namibia <b>Dr. Cees Passchier (KEYNOTE SPEAKER)</b>



**Monday - Session 2**  
**T30.2 - Geology and Tectonics Of the Himalayan Orogenic Belt**  
**Auditorium 1**

16:00–17:45

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 790	Tectonic setting of the Lohit Granitoid Complex (LGC) in Trans Himalayan Belt, Arunachal Pradesh, India: A Geochemical approach <b>Mr. D Adhikary</b>
16:15	# 2168	Tectonic-Magmatic-Metallogenic System of Deqen-Yangla Area within the Jinshajiang Orogen <b>Dr. Prof. Pusheng Zeng</b>
16:30	# 4377	Seesaw-type to integral growth in the Cenozoic Longmen Shan thrust belt, eastern margin of Tibetan Plateau <b>Ms. Ming Sun</b>
16:45	# 5122	The Himalayan Seismogenic Zone: A New Frontier for Earthquake Research <b>Prof. Larry Brown (KEYNOTE SPEAKER)</b>
17:15	# 305	Genetic Process Underlying the Mw 7.8 Nepal Earthquake Sequence <b>Prof. Jiagui Zhang</b>
17:30	# 1111	Postseismic deformation associated with the 2010 Yushu, China Ms7.1 earthquake from GPS measurements <b>Prof. Guo-jie Meng</b>

**Monday - Session 2**  
**T30.2b - Ophiolite Record of Oceanic Lithosphere Formation Through Time**  
**Westin - Ballroom West**

16:00–17:45

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 4955	Tethyan ophiolites: Products of rift-drift, seafloor spreading & subduction zone tectonics of marginal basin evolution following the Gondwana breakup <b>Dr. Yildirim Dilek (KEYNOTE SPEAKER)</b>
16:30	# 727	Detachment faulting at the Mid-Atlantic Ridge <b>Dr. Catherine Mevel (KEYNOTE SPEAKER)</b>
17:00	# 2077	Volcanic Rocks and Kindred Sediments of the Ophiolite Belt of Indo-Myanmar Ranges of Northeast India and Implications on the Tectonic Setting of the Continental Margin Basin <b>Dr. Mangi Khuman Chabungbam</b>
17:15	# 1714	The Paleo-Tethys ophiolite in the Qiangtang Block, north Tibet, China <b>Dr. Qing Guo Zhai</b>
17:30	# 3896	Neogene orocline of central Japan and TTT-Triple junction consequence (A review): A hint for emplacement of oceanic and serpentinite bodies <b>Dr. Yujiro Ogawa</b>

**Monday - Session 1**  
**T34.1 - Geochronology**  
**Westin - Prince Edward/Schappen**

14:00–15:30

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 5578	A new age for 40Ar/39Ar geochronology – Out of Africa and beyond... <b>Dr. David Phillips (KEYNOTE SPEAKER)</b>
14:30	# 5469	Twenty Years On – Re-Os Revolution for Crustal Rocks <b>H.j Stein (KEYNOTE SPEAKER)</b>
15:00	# 5468	Disassembling petroleum systems with Re-Os isotope geochemistry <b>Dr. Judith L Hannah</b>
15:15	# 5314	Geochronological implications of metallic Pb nanospheres in zircon exposed to high-grade metamorphism <b>Dr. Monika A. Kusiak</b>

**Monday - Session 2**  
**T34.2 - Geochronology**  
**Westin - Prince Edward/Schappen**

16:00–17:45

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 4442	Speleothems as monitors of landscape evolution <b>Prof. Jon Woodhead</b>
16:15	# 156	Unravelling caldera-forming gigantic eruptions by Quaternary zircon U-Pb dating <b>Dr. Hisatoshi Ito</b>



# Monday 29 August

16:30	# 1789	New insights into eruption ages of Plio-Pleistocene maars and scoria cones of south-eastern Australia via high precision 40Ar/39Ar dating of feldspar 'megacrysts' <b>Dr. Erin Matchan</b>
16:45	# 5334	Timing, duration, and causes for Late Jurassic-Early Cretaceous anoxia in the Barents Sea <b>Dr. Holly Stein</b>

## Monday - Session 1 T36.1 - Large Igneous Provinces MR 1.41 - 1.42

14:00–15:30

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 5070	LIPs in Space and Time <b>Dr. Richard Ernst (KEYNOTE SPEAKER)</b>
14:30	# 594	Plume-related magmatic systems and their roots: Evidence from large igneous provinces and mantle xenoliths in basalts <b>Dr. Evgenii Sharkov</b>
14:45	# 4393	Variably deformed and metamorphosed Palaeoproterozoic mafic dykes across the Nagssugtoqidian Foreland, SE Greenland <b>Mr. Riaan Bothma</b>
15:00	# 281	Petrology and geochemistry of mafic dyke and sills in cumbum formation, of the Proterozoic Nallamalai fold belt, Rajampet area, Andhra Pradesh, India <b>Ms. Munmun Chakraborty</b>
15:15	# 3220	The Gawler Range Volcanics: Petrogenesis of a Silicic Large Igneous Province <b>Prof. John Foden</b>

## Monday - Session 2 T36.2 - Large Igneous Provinces MR 1.41 - 1.42

16:00–17:45

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 1941	Paleoproterozoic PGE-bearing Monchetundra Massif (Fennoscandian Shield): Isotope-Geochemical Nd-Sr Features of the Mafic Rocks <b>Mr. Evgeniy Kunakkuzin</b>
16:15	# 4868	A ~3 Ga record of mafic dyke and sill swarms across the Kaapvaal Craton: Further structural and geochemical clues for six Large Igneous Provinces <b>Dr. Martin Klausen (KEYNOTE SPEAKER)</b>
16:45	# 4730	Thermodynamic examination into the causation of the mineralogical cyclicity of the Upper Zone of the Bushveld Complex <b>Ms. Tawnee Britt</b>
17:00	# 4715	Ti-thermometry of magmatic quartz in evolved rocks from the Bushveld Complex, South Africa <b>Mr. Musawenkosi Buthelezi</b>
17:15	# 1891	Did the dioritic intrusions of the Vredefort Dome in South Africa form during the Bushveld event? <b>Mr. Willem Kruger</b>
17:30	# 144	Trace element and Sr-isotopic variations in plagioclase of the Main and Upper zones, Northern and Western limbs, Bushveld Complex <b>Dr. Frederick Roelofse</b>

## Monday - Session 1 T37.1 - Clays and Clay Minerals / Fluid and melt inclusion in Minerals Westin - Seal/Robben

14:00–15:30

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 5425	The effect of origin on firing behaviour of kaolinitic clays <b>Prof. Aydin Aras</b>
14:15	# 3005	Thermal stability as alternate indicator of ceramic potentials of selected South African kaolins <b>Dr. Lawrence Diko Makia</b>
14:30	# 2156	Characteristics and environmental significance of the minerals in atmospheric dust of Shijiazhuang, China <b>Prof. Wenlou Luan</b>
14:45	# 1886	Hydrocarbons in Northern German salt domes – content, distribution, origin and structural position <b>Mr. Maximilian Pusch</b>
15:15	# 3094	Low temperature synthesis of hydrocarbon fluid-bearing crystals <b>Prof. Katarzyna Jarmolowicz-Szulc</b>
15:15	# 4838	The thermometric data of the high-temperature vein quartz from Wądroże Wielkie area (Fore-Sudetic Block, Poland) <b>Dr. Krystyna Wolkowicz</b>

**Monday - Session 2****16:00–17:45****T37.2 - Fluid and melt inclusion in Minerals  
Westin - Seal/Robben**

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 4669	Fluid Evolution of the Zhunuo Porphyry Cu(-Mo-Au) System in Gangdese tract in Tibet, China: A Fluid Inclusion Investigation <b>Ms. Dai Jie</b>
16:15	# 5330	Fluid inclusion characteristics of porphyry Mo systems in two contrasting tectonic environments: Insights from Shapinggou and Zhilingtou deposits in South China <b>Prof. Pei Ni</b>
16:30	# 5327	The mechanism of metal precipitation in the Dexing giant ore cluster, South China: evidence from fluid inclusions <b>Dr. Guo-Guang Wang</b>
16:45	# 406	The fluid evolution in shear hosted Cu-Au mineralisation at Thanewasna, Central India: Constraints from fluid inclusion and stable isotope study <b>Dr. Muduru Iachhana Dora</b>
17:00	# 381	Fluid inclusion characteristics of Agargaon Tungsten deposits in the Sakoli fold belt, Nagpur District, Maharashtra, India <b>Dr. Girish Kumar Mayachar</b>
17:15	# 339	Petrogenesis and fluid inclusion study of Bismuth mineralization from Betul Belt, India <b>Dr. Thankappan Pradeepkumar</b>

**Monday - Session 1****14:00–15:30****T38.1 - Tectono-thermal evolution of Gondwana: suturing of a supercontinent  
Westin - Diaz & Da Gama**

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 4987	A hundred million years in a long, hot orogen: zircon and monazite growth during tectono-thermal activity in the Lützow-Holm Complex of east Antarctica <b>Dr. Daniel Dunkley</b>
14:15	# 793	Tectonic overpressure as an alternative driving force of high-P assemblages within the Cambrian high-grade orogens of East Antarctica <b>Dr. Evgenii Mikhalskii</b>
14:30	# 2595	Destruction of the Mozambique Ocean: evidence from the Schirmacher Oasis, East Antarctica for accretion as a precursor to Gondwana assembly <b>Dr. Ravikant Vadlamani</b>
14:45	# 3597	The continuation of the Arabian-Nubian Shield and the Mozambique Belt into East Antarctica: Implications of Gondwana Assembly <b>Dr. Steven Boger</b>
15:00	# 5192	Crustal thickening during amalgamation of East and West Gondwana: A case study from the Hafafit Complex, Egypt <b>Dr. Tamer Abu-Alam</b>
15:15	# 25	Tectonothermal evolution of Southeastern Nigerian basement complex <b>Prof. Barth Ekwueme</b>

**Monday - Session 2****16:00–17:45****T38.2 - Tectono-thermal evolution of Gondwana: suturing of a supercontinent  
Westin - Diaz & Da Gama**

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 985	Full Plate Topological Reconstruction of Gondwana Amalgamation <b>Prof. Alan Collins (KEYNOTE SPEAKER)</b>
16:30	# 4621	Metamorphic and structural evidence in the Arabian-Nubian Shield for mid-crustal sub-horizontal channel flow during Pan-African exhumation <b>Dr. Tamer Abu-Alam</b>
16:45	# 4181	Tectono-thermal Reworking of the SE Archean Kaapvaal Craton during Gondwana Assembly: Evidence from Dronning Maud Land, Antarctica <b>Dr. Eugene Grosch</b>
17:00	# 4492	Hot orogens and supercontinent amalgamation: a Gondwanan example from southern India <b>Dr. Chris Clark</b>
17:15	# 263	Tectonometamorphic history and the significance of a ~1450 Ma event recorded in the Proterozoic succession from a part of the Pakhal Basin adjoining the Eastern Ghat Mobile Belt, South India <b>Mr. Debapriya Adhikary</b>
17:30	# 1363	Mesozoic metamorphism and its tectonic implication along the Solonker suture zone in central Inner Mongolia, China <b>Mr. Jinrui Zhang</b>



## Monday - Session 1

14:00–15:30

### T40.1 - Stratigraphic and morphologic signatures of continental shelves Ballroom West

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 5636	The Gulf of Maine: A Rocky, Paraglacial Shelf <b>Dr. Joseph Kelley (KEYNOTE SPEAKER)</b>
14:30	# 3839	Shelf-edge sand bodies in the western Mediterranean: relict deltas reworked by modern processes <b>Prof. Serge Berné</b>
14:45	# 3141	Bedform distribution and sediment pathways on a high-energy, mixed wave- and tide-influenced shelf, north Coast, Northern Ireland <b>Prof. Andrew Cooper</b>
15:00	# 4527	Seismic, geochemical and sedimentological characteristics of storm deposits from the Durban continental shelf, South Africa <b>Ms. Shannon Dixon</b>
15:15	# 1050	The Tsitsikamma coastal shelf, Agulhas Bank, South Africa: example of an isolated Holocene sediment trap <b>Dr. Burghard Flemming</b>

## Monday - Session 2

16:00–17:45

### T40.2 - Stratigraphic and morphologic signatures of continental shelves Ballroom West

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 3620	The role of shelf morphology and antecedent setting in the preservation of submerged shoreline sequences <b>Prof. Andrew Green</b>
16:15	# 3553	Environmental and Climate Variation during the Last Glacial Cycle and its sequence stratigraphic reflection at the South China Sea's Northern Margin <b>Prof. Jan Harff</b>
16:30	# 3453	Submerged beach ridges in Mecklenburg Bay (SW Baltic Sea) indicate Late Pleistocene and Holocene shore lines <b>Mr. Christoph Heinrich</b>
16:45	# 4537	Sequence Stratigraphy of the Durban Basin, South Africa <b>Mr. Nigel Hicks</b>
17:00	# 2130	Morphology and Stratigraphy of the Central California Shelf - Results from the California Seafloor and Coastal Mapping Program <b>Dr. Samuel Johnson</b>
17:15	# 5477	Seismic Stratigraphy of the Saldanha Bay and Langebaan Lagoon areas <b>Mr Vamumusa Khumalo</b>

## Monday - Session 1

14:00–15:30

### T44.1 - IGCP 632 Continental Crises of the Jurassic: Major extinction events and environmental changes Reg Foyer 2

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 4203	The Nothal Jurassic record as preserved in sequences of Zealandia <b>Dr. Hamish Campbell (KEYNOTE SPEAKER)</b>
14:30	# 5281	Changes in carbon dioxide concentrations across the Cretaceous-Paleogene boundary revealed by first Southern Hemisphere (New Zealand) stomatal proxy-based pCO <sub>2</sub> reconstruction <b>Prof. Vivi Vajda</b>
14:45	# 4626	Implications of U-Pb zircon CA ID-TIMS ages for high-resolution stratigraphy and timescale of Jurassic-Cretaceous continental strata of northern China <b>Mr. Sean Kinney</b>
15:00	# 492	40Ar/39Ar age for the fossil-bearing Tiaojishan Formation in NE China <b>Dr. Su-Chin Chang</b>
15:15	# 3459	Using the isotopic content of fossil remains as evidence of paleoenvironmental condition of the late Jurassic West Gondwana <b>Dr. Paulo Roberto Souto</b>

## Monday - Session 2

16:00–17:45

### T44.2 - IGCP 632 Continental Crises of the Jurassic: Major extinction events and environmental changes Reg Foyer 2

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 1503	The Geology and Palaeontology of Tanzania <b>Dr. Emma Msaky (KEYNOTE SPEAKER)</b>
16:30	# 4498	Astronomical constraints on the duration of the early jurassic plienschachian and toarcian stages and global carbon-cycle and climatic perturbations <b>Dr. Micha Ruhl</b>



16:45	# 4790	Lacustrine expansion and carbon drawdown during the early Toarcian Oceanic Anoxic Event <b>Prof. Dr. Stephen P. Hesselbo</b>
17:00	# 4781	Low-latitude terrestrial climate cooling event in the Late Triassic (Norian-Rhaetian): palaeobotanical evidence from the Sichuan Basin, southern China <b>Prof. Yongdong Wang</b>
17:15	# 2789	Temporal and spatial distribution pattern of the marine-brackish-water bivalve <i>Waagenoperna</i> in China and its implications for Triassic-Jurassic transition climate and palaeogeography <b>Prof. Jingeng Sha</b>
17:30	# 3861	Jurassic reef events in Moroccan Atlasic domain (Middle Atlas and Central High Atlas in particular) <b>Dr. Driss Sadki</b>

**Monday - Session 1**  
**T47.1 - Anthropocene: Utility and Definition**  
**Reg Foyer 1**

14:00–15:30

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 3966	The Anthropocene: overview of stratigraphical assessment to date <b>Dr. Colin Waters (KEYNOTE SPEAKER)</b>
14:30	# 2914	Assessing Global Boundary Stratotype Section and Point (GSSP) candidates for the Anthropocene <b>Dr. Colin Waters</b>
14:45	# 2491	The mistaken drive to define the 'Anthropocene' as an officially recognized unit of the Geologic Time Scale <b>Dr. Stanley Finney</b>
15:00	# 1149	Anatomy of a mass extinction: new data on the timing of rapid environmental change and extinction phases at the Permo-Triassic boundary in the main Karoo Basin, South Africa <b>Prof. Roger Smith (KEYNOTE SPEAKER)</b>

**Monday - Session 2**  
**T47.2 - Stratigraphy, Sedimentology, and Palaeontology of the Permian–Triassic Boundary Interval, Karoo Basin, South Africa**  
**Reg Foyer 1**

16:00–17:45

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 2085	The end-Permian mass extinction and the plants – how much of it is taphonomical bias? <b>Dr. Evelyn Kustatscher</b>
16:15	# 3684	Red Green: Geochemistry of colored siltstones from the <i>Daptocephalus</i> ( <i>Dicynodon</i> ) and <i>Lystrosaurus</i> Assemblage Zones at Old Lootsberg Pass and Bethulie, South Africa <b>Prof. Robert Gastaldo</b>
16:30	# 2957	Multi-Order Tectonic and Climatic Signals in Permian-Lower Triassic Terrestrial Sedimentary Successions in Bogda Mountains, NW China <b>Dr. Wan Yang</b>
16:45	# 1179	The <i>Daptocephalus</i> Assemblage Zone (Lopingian), South Africa: A proposed biostratigraphy based on a new compilation of stratigraphic ranges <b>Ms. Pia Viglietti</b>
17:00	# 3812	Variability in the Late Permian landscape of the upper Balfour Formation (Beaufort Group Strata, Karoo Basin, South Africa) <b>Dr. Johann Neveling</b>
17:15	# 3704	Paleomagnetic Data Bearing on the Thermal History of Upper Permian to Lower Triassic (?) Beaufort Group Strata, Karoo Basin, South Africa <b>Prof. John Geissman</b>
17:30	# 5084	Stratigraphy, U-Pb dating and structural control of post- Variscan volcanism in Sardinia and Southalpine <b>Prof. Laura Gaggero</b>

**Monday - Session 1**  
**T48.1 - Planetary Geoscience**  
**Westin - Sir Francis Drake**

14:00–15:30

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 2446	The new early Mars: implications for geodynamics, geology and climate <b>Dr. David Baratoux (KEYNOTE SPEAKER)</b>
14:30	# 2389	What are wrinkle ridges telling us about the sub-surface of Mars? <b>Mrs. Veronique Ansan</b>
14:45	# 5002	Processes producing rock fragments in a hyper-arid, frigid and windy environment, the interior of Gale Crater, Mars <b>Dr. Bernard Hallet</b>
15:00	# 1274	Qaidam Basin, NE Tibetan Plateau: A new Mars analogue site <b>Prof. Long Xiao</b>



## Monday - Session 2 T48.2 - Planetary Geoscience Westin - Sir Francis Drake

16:00–17:45

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 182	Planetary and astrobiological significance of Canary Islands (Spain): review, state-of-the-art and future developments <b>Prof. Dr. Jesús Martínez-Frías</b>
16:15	# 4708	A High Resolution Study of Micro-alteration and Organic Carbon in Yamato 000593: Exploring Subsurface Impact Processes on Mars <b>Dr. Nicola McLoughlin</b>
16:30	# 2886	Asteroid 4Vesta's surface composition and geology <b>Dr. Katrin Stephan</b>
16:45	# 2713	Impact crater frequencies on planetary surfaces as a stratigraphic tool: application to Jupiter's largest satellite Ganymede <b>Dr. Roland Wagner</b>
17:00	# 2721	Differentiation models of Ceres: Delayed water separation and thick crust <b>Dr. Wladimir O. Neumann</b>
17:15	# 180	The Anthropogenic Metallogenic Principle <b>Prof. Morris Viljoen</b>

## Monday - Posters T1.P1 - Geoheritage and Conservation Exhibition

17:45–19:00

PAPER #	PAPER TITLE & AUTHOR
# PB01	An Academic heritage for Geoscientists: Example of Kachchh Rift Basin: Western India <b>Mr. Gaurav Chauhan</b>
# PB02	UNESCO Cultural heritage Vs. Natural hazards at European scale. The PROTHEGO project <b>Dr. Daniele Spizzichino</b>

## Monday - Posters T3.P1 - Public Sector Geoscience and Geological Surveys Exhibition

17:45–19:00

PAPER #	PAPER TITLE & AUTHOR
# PB03	Remote sensing and geoscientific mapping training within the framework of the PanAfGeo project <b>Dr. Petr Mixa</b>

## Monday - Posters T5.P1 - Groundwater and Hydrogeology Exhibition

17:45–19:00

PAPER #	PAPER TITLE & AUTHOR
# PB04	Hydrogeochemistry of Ukraine's groundwater system and its impact on public health <b>Prof. Georgii Rudko</b>
# PB05	Groundwater contamination caused by industrial waste in Waluj MIDC Area, dist. Aurangabad (M.S) <b>Prof. Ashok Tejankar</b>
# PB06	Groundwater Potential Zoning in Turkana County, Kenya—A lithological and Structural geology approach <b>Mr. Edward Kipkoech</b>
# PB07	Investigation potential karstic water resources in shahroud ,Iran Using Combined Fuzzy-AHP, AHP Methods <b>Dr. Razieh Akbari Jonosh</b>

## Monday - Posters T6.P1 - Soil Science Exhibition

17:45–19:00

PAPER #	PAPER TITLE & AUTHOR
# PB08	Development of Chernozem – Luvisol toposequence in the North-east Namibia <b>Dr. Vit Penizek</b>
# PB09	Estimation of Volumetric Oil Content in Unsaturated Soils using Thermo-TDR Techniques <b>Mr. Shinsuke Aoki</b>
# PB10	Novel use of monochromatic light mineral separation techniques to enhance agromineral concentration for plant nutrient release from mesocratic and leucocratic fractions of Pelotas monzogranite, RS, Brazil <b>Mr. Matheus Grecco</b>
# PB11	Prairie Mound Morphology and Age in the Arkansas River Valley, south-central United States <b>Dr. Brad Lee</b>



# PB12	Preliminary results of a geoelectrical survey in a vineyard in Estremoz, Portugal <b>Prof. Antonio Correia</b>
# PB13	Forensic Geophysics: ground penetrating radar application in archaeological research in Tekoha Jevy village, Parana, Brazil <b>Mr. Fábio Salvador</b>
# PB14	Comparison of ginseng planting field soil to solve a murder case <b>Ms. Hongling Guo</b>

**Monday - Posters****17:45–19:00****T7.P1 - Geoscience Data and Information Systems Exhibition**

PAPER #	PAPER TITLE & AUTHOR
# PB15	A new geological map of the SE Fennoscandian Shield as a basis for the study of the evolution of the early earth crust <b>Dr. Aleksandr Slabunov</b>
# PB16	100 years of Antarctic tectonic cartography <b>Dr. German Leitchenkov</b>
# PB17	The Structural Map of the South China Sea ; Highlighting the Main Tertiary Events <b>Dr. Manuel Pubellier</b>
# PB18	3D GeoModelling: a collaborative platform for multidisciplinary interpretation <b>Dr. Philippe Calcagno</b>
# PB19	Development of assisted road navigation by the drainage network <b>Dr. Talnan Jean Honore Coulibaly / Dr. Naga Coulibaly / Prof. Jean Paul Deroin</b>

**Monday - Posters****17:45–19:00****T8.P1 - Geohazards Exhibition**

PAPER #	PAPER TITLE & AUTHOR
# PB20	Variation characteristics of tectonic stress tensors on Longmen-Shan fault belts and the new interpretation of the dynamics of Wenchuan earthquake <b>Prof. Furen XIE</b>
# PB21	Strain partitioning and seismotectonics in the east margin of the Tibetan Plateau constrained by river landforms <b>Prof. Shimin Zhang</b>
# PB22	A method to determine accurate hypocentral parameters of shallow earthquakes including explosions <b>Dr. Woohan Kim</b>
# PB23	A site specific geological risk assessment of the proposed location of South Africa's second nuclear power plant, Thyspunt, Eastern Cape <b>Mrs. Debbie Claassen</b>
# PB24	Searching for the significant displacement zone of the 2014 Orkney earthquake fault with strain data and Map3Di for targeting scientific drilling <b>Mr. Akimasa Ishida</b>
# PB25	The 2014 Orkney M5.5: location of initial and main rupture origins and high energy sources <b>Mr. Hiroyuki Ogasawara</b>
# PB26	Differential uplift and incision of the Yakima River terraces, central Washington State, USA <b>Dr. Paul Bierman</b>
# PB27	Evidence for Quaternary Reverse of Rattlesnake Mountain Fault, Yakima Fold Belt, Eastern Washington <b>Ms. Kathryn Hanson</b>
# PB28	Map and database of active faults in Slovenia <b>Mr. Miloš Bavec</b>
# PB29	Neotectonics of the Algerian continental margin: Blocks rotations evidenced by a paleomagnetic analysis <b>Dr. Said Maouche</b>
# PB30	The production of the Africa seismotectonic map and database <b>Mrs. Magda Roos</b>

**Monday - Posters****17:45–19:00****T15.P1 - Engineering Geology and Geomechanics Exhibition**

PAPER #	PAPER TITLE & AUTHOR
# PB31	Protection and valorisation of industrial heritage related to Global Heritage Stone Resources in Belgium <b>Dr. Dolores Pereira</b>
# PB32	Pozzolanic reactions of calcined clays: study to an improved utilization <b>Prof. Lidia Catarino</b>
# PB33	Investigation of CO <sub>2</sub> -rock-wellbore cement interaction – experimental study <b>Dr. Krzysztof Labus</b>



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# PB34	Natural radioactivity in Spanish granites: observations on different slab finishes <b>Dr. Dolores Pereira</b>
# PB35	Analysis of present-day stress based on Stress Measurement and Numerical Simulation Method in Qinshui Basin, Shanxi Province, China <b>Mr. Ke Xu</b>
# PB36	Mechanical Properties of Adobe blocks used in Building Construction in Huambo Province - Angola <b>Dr. Isabel Duarte</b>
# PB37	Methods of earth building in the Huila Province, Angola <b>Dr. Isabel Duarte</b>
# PB38	Formation of geological risk upon tunnel construction in water-saturated fine-grained soils <b>Dr. Irina Kozlyakova</b>
# PB39	A Study on Quaternary Geological Characteristics and Land Subsidence Life Process in the Lower Yangtze Delta Area of China <b>Prof. Hongtao Jiang</b>
# PB40	Classification of surrounding rock of large underground water-sealed storage caverns based on evolution back-propagating neural network <b>Dr. Lv Feifei / Prof. Yan Echuan / Dr. Wang Lunan / Dr. Gao Xu / Dr. Cui Xuejie</b>
# PB41	Resourcing Future Generations: Economic Impacts from Construction of a Raw Water Pipeline <b>Prof. Becky Johnson</b>
# PB42	Sandstone building materials, their geoprocessing and thermal properties <b>Prof. Antoine F Mulaba-Bafubandi</b>
# PB43	The Effect of Petrographic Characteristics on the Strength of Selected Basaltic Rocks from Turkey <b>Dr. Atiye Tugrul</b>
# PB44	Proposal of classification for roofing slates <b>Dr. Victor Cardenes</b>
# PB45	A case study determining the stability of land affected by shallow under mining for urban development in Old Coronation, Witbank coalfield area <b>Mr. Sibonakaliso Chiliza</b>

## Monday - Posters

### T17.P1 - Mineral Exploration Exhibition

17:45–19:00

PAPER#	PAPER TITLE & AUTHOR
# PB46	Tips and tricks to know about porphyry copper deposits in Kerman copper-bearing belt <b>Dr. Mansour Ghorbani</b>
# PB47	Metallogeny of Toroud – Chahshirin Mountains and various mineralization types <b>Dr. Mansour Ghorbani</b>
# PB48	Metallogeny of Tarom – Hashtjin Mountains and various mineralization types <b>Dr. Mansour Ghorbani</b>
# PB49	Gold mineralization along the Gurharpahar ridge in the Mahakoshal fold belt, Central India: Mode of occurrence, distribution, structural controls and exploration <b>Dr. M.K Mukherjee</b>
# PB50	Follow-up soil survey to evaluate regional Pb and Zn soil anomalies in Nylstroom, Limpopo Province, South Africa <b>Mr. Thato Ntikang</b>
# PB51	The Alteration Index as a guide to base metal sulphide mineralization in the Xixano Complex, Northern Mozambique <b>Mrs. Judy Schlegel</b>
# PB52	Stream sediment geochemistry of Nallamalai sub-basin, Dornala – Cumbum areas, South India - a tool for mineral exploration <b>Mr. Natarajan Nandhagopal</b>

## Monday - Posters

### T18.P1 - Mineral Deposits and Ore Forming Processes Exhibition

17:45–19:00

PAPER#	PAPER TITLE & AUTHOR
# PB53	Metallogenic Types and Spatial-temporal Features of Uranium Deposits in South China <b>Prof. Yuqi Cai</b>
# PB54	Metallogeny and economic potential of Mo mineralization in the Erzgebirge-Krušné hory (Saxony/Bohemia), central Europe <b>Prof. Thomas Seifert</b>
# PB55	New mineralogical and fluid inclusion data from Sb-mineralization in the Sb-Ag mining district Schleiz, eastern Thuringia, Germany <b>Prof. Thomas Seifert</b>
# PB56	New insights on a historical mine site: the Sn-W-Li Zinnwald/Cínovec deposit, eastern Erzgebirge, central Europe <b>Prof. Thomas Seifert</b>
# PB57	Metallogeny of the Sn-polymetallic / Ag ore fields Pobershau and Rittersberg (Marienberg district), central Erzgebirge, Germany <b>Prof. Thomas Seifert</b>



# PB58	Mineralization styles related to a hidden late-Variscan granite intrusion: the district of Oelsnitz (Vogtland Synclinorium, Germany) <b>Prof. Thomas Seifert</b>
# PB59	Fluid inclusions and sulfur isotope constraints on the genesis of the stratiform ores of Jiguanzui Au-Cu skarn deposit, Middle-Lower Yangtze River Metallogenic Belt, Eastern China <b>St. Hongqiang Wang</b>
# PB60	Base metal mineral-bearing shear zone at Tandilia System, Precambrian Basement of Eastern Argentina <b>Dr. Raúl Ernesto De Barrio</b>
# PB61	Epithermal gold and porphyry copper mineralization in the Zamboanga Mineral District, Mindanao, Philippines <b>Dr. Jillian Aira Gabo-Ratio</b>
# PB62	Preliminary study of the copper mineralization in the Sabe Taung Area, Central Myanmar <b>Mr. Akihiro Goda</b>

**Monday - Posters**  
**T20.P1 - Petroleum Systems and Exploration**  
**Exhibition**

17:45–19:00

PAPER#	PAPER TITLE & AUTHOR
# PB63	The Combination of Carboniferous Volcanic Reservoir Spaces and Hydrocarbon Storage Modes <b>Prof. Yang Shaochun</b>
# PB64	An investigation of key seismic attribute analysis of the Whitehill Formation in the Karoo Basin <b>Mrs. Wahiebah Hoosain Daniels</b>
# PB65	Evaluation of Seismic Reflection in the Kalahari Karoo Basin, Botswana <b>Mr. Onkgopotse Ntibinyane</b>
# PB66	Health safety and environmental aspect in petroleum in Africa <b>Mr. Benjamin Kering</b>
# PB67	Gas and Petroleum Operating necessity of Virunga Park and Lake Kivu / DRC face of the imperatives of protection Environnement, Biodiversity and Development <b>Mr. Kiro Kubuya</b>
# PB68	Impact of the Oil Exploitation on the Abertine Block: Case of the Virunga National Park at the East of DR Congo <b>Mr. Bora Uzima Bahavu</b>
# PB69	Petroleum System: from Conventional to Unconventional <b>Prof. Jingzhou Zhao</b>
# PB70	Petroleum system modelling of the eastern Barents Sea basin <b>Dr. Petr Sobolev</b>
# PB71	Formation and evolution of Wei Yuan-Anyue extension-erosion groove in Sinian system, Sichuan Basin <b>Ms. Ying Li</b>
# PB72	China Oil and Gas Exploration & Development Current Situation and Trend <b>Dr. Hong Wang</b>

**Monday - Posters**  
**T26.P1 - Resourcing Future Generations**  
**Exhibition**

17:45–19:00

PAPER#	PAPER TITLE & AUTHOR
# PB73	Ceramic paste Formulation for the production of Traditional Pottery from Sub-Products of the Extractive Industry of Marbles - Alentejo, Portugal <b>Prof. Luís Lopes</b>
# PB74	Technogenic raw material in enrichment plant of Zhezkazgan <b>Prof. Adilkhan Baibatsha</b>

**Monday - Posters**  
**T29.P1 - Basin Formation and Continental Margins**  
**Exhibition**

17:45–19:00

PAPER#	PAPER TITLE & AUTHOR
# PB75	Geological and geophysical integration in the identification of structural features and crustal limits on onshore and offshore portions of the south of Santos Basin, Brazil <b>Mr. Henrique Bruno</b>
# PB76	Structural evolution of the Gamtoos Basin, based on 2D seismic data <b>Mrs. Anthea Davids</b>
# PB77	Controls on margin development during the breakup of East Gondwana <b>Mr. Joshua Davis</b>
# PB78	Tectonic evolution of the Ulleung back-arc Basin, East Sea (Sea of Japan), Korea <b>Dr. Jaehong Ko</b>



# PB79	The application of magnetic amplitude inversion for structure interpretation in South China Sea <b>Dr. Shuling Li</b>
# PB80	Anisotropy of Magnetic Susceptibility, Palaeomagnetism and Rock magnetic studies on mafic intrusives from Kaddam Fault: Implications to Godavari rift related magmatism <b>Dr. Dhananjay Meshram</b>
# PB81	Magmatic segments abandoned during continental breakup – insights into the formation of seaward dipping reflectors <b>Mr. James Norcliffe</b>
# PB82	Cenozoic tectonic jumping in the Western Pacific Continental Margin <b>Dr. Yanhui Suo</b>
# PB83	A tectonostratigraphic comparison of the eastern and western parts of the Gamtoos Basin, South Africa <b>Ms. Chantell Van Bloemenstein</b>

## Monday - Posters

### T34.P1 - Geochronology Exhibition

17:45–19:00

PAPER #	PAPER TITLE & AUTHOR
# PB84	40Ar/39Ar ages in two alkaline igneous complexes from the Tikar Plain, Cameroon (Central Africa): a contribution to the interpretation of the Cameroon Line magmatism <b>Prof. Njonfang Emmanuel</b>
# PB85	Closure of the Rheic Ocean and post-orogenic uplift of the Western Tatra Mountains Western Carpathians (Poland/Slovakia) <b>Dr. hab. Aleksandra Gaweda</b>
# PB86	The geochemistry and geochronology of the Barby Formation, Southern Namibia <b>Ms. Theresia Malobela</b>
# PB87	Revision of the Cambrian part of Russian general stratigraphic time scale and its correlation with the international geological time scale <b>Dr. Konstantin Pak</b>
# PB88	Dating of altered mafic intrusions by applying a zircon fission track thermochronometer to baked country rock <b>Dr. Hiroyuki Hoshi</b>
# PB89	Strategies towards statistically robust interpretations of in situ U–Pb zircon geochronology <b>Dr. Christopher Spencer</b>
# PB90	A review of the geochronology of the Margate Terrane of the Natal Metamorphic belt <b>Prof. Peter Mendonidis</b>
# PB91	U–Pb SIMS SHRIMP-II titanite age and time-range of apatite-titanite mineralization of Lovozero and Khibiny agpaaitic massifs <b>Dr. Oleg Petrov</b>

## Monday - Posters

### T36.P1 - Magmatism - Settings, Compositions and Processes Exhibition

17:45–19:00

PAPER #	PAPER TITLE & AUTHOR
# PB92	Petrological constrains on the coarse-grained, high-Mg basaltic enclaves of Capo Marargiu (Sardinia, Italy) <b>Mr. Vanni Tecchiato</b>
# PB93	Mafic rocks along the Kasai River (DRC/Angola) <b>Mr. Wean Welgemoed</b>
# PB94	In-situ multiple-trace element analyses as a tool for investigating the petrogenesis of phoscorite-carbonatite associations, as exemplified by the Phalaborwa Complex, South Africa <b>Dr. Lorenzo Milani</b>
# PB95	Geochemistry of the Bitungulu lava flow of the January 17 , 2002 Nyiragongo volcano eruption (Virunga, East-African rift) <b>Mr. K. Ephrem Kamate</b>
# PB96	Occurrence of Rapakivi Granite around Tarai, Kano state, Northwestern Nigeria: A Preliminary Report <b>Mr. Abdulgafar Amuda</b>
# PB97	Permian-Jurassic rift-related alkaline magmatism of the Eastern Mountains, Central Andes Bolivia <b>Dr. Ramiro Matos</b>
# PB98	Chalcophile element geochemistry of the Baima layered intrusion, Emeishan Large Igneous Province, SW China: implications for sulfur saturation history and genetic relationship with high-Ti basalts <b>Mrs. Xiaoli Zhang</b>
# PB99	Paleoproterozoic Monchetundra massif (Fennoscandian shield): geological relationships and geochemical features of rocks <b>Ms. Elena Borisenko</b>
# PB100	A petrographic, geochemical and geochronological study of mafic sills within the Transvaal Supergroup, east of the Bushveld Igneous Complex <b>Ms. Thendo Netshidzivhe</b>
# PB101	Crystallization and initial mush porosity of poikilitic anorthosites in the Bushveld Complex <b>Dr. Ben Hayes</b>
# PB102	Spatio-chemical analysis of dykes in the Etendeka Large Igneous Province, Namibia: Insights into the magmatic processes associated with continental break-up <b>Dr. Trishya Owen-Smith</b>



## Monday - Posters

17:45–19:00

T38.P1 - Metamorphic Processes  
Exhibition

PAPER#	PAPER TITLE & AUTHOR
# PB103	Tectono-metamorphic history of granulite facies terrain of Balaram-Abu Road, North Gujarat, W. India : Implications for India – Madagascar connection in Gondwana Correlation <b>Dr. Manoj Limaye</b>
# PB104	Role of the Aswa Shear Zone, Uganda, in the Neoproterozoic East African Orogen <b>Dr. Kerstin Saalman</b>
# PB105	Dronning Maud Land, the southern extension of Gondwana Supercontinent: Incomplete vision <b>Dr. Tamer Abu-Alam</b>
# PB106	Tectonic setting and provenance of the Capané Antiform, Porongos Complex, Dom Feliciano Belt, Brazil: Evidence from U-Pb ages <b>Ms. Daianne Francis Silva Da Silveira</b>

## Monday - Posters

17:45–19:00

T37.P1 - Mineralogy  
Exhibition

PAPER#	PAPER TITLE & AUTHOR
# PB107	New investigations on Zn-clays from Skorpion (Namibia) <b>Dr. Giuseppina Balassone</b>
# PB108	Clayey soils, additives for traditional pot making and artefact motives as cultural indicators in Limpopo and Free State, South Africa <b>Ms Phindile Hlekane</b>
# PB109	About the presence of non-reported zeolites related to Karroo basalts at South Mozambique, a possible new commodity to use for environment protection <b>Dr. Gerardo Antonio Orozco</b>
# PB110	Crystal chemical principles of classifying eudialyte group minerals <b>Dr. Sergey Aksenov</b>
# PB111	MINERALS IN THIN SECTION: An open-access, interactive website for transmitted-light petrographic microscopy <b>Dr. Juergen Reinhardt</b>

## Monday - Posters

17:45–19:00

T40.P1 - Marine Geosciences and Oceanography  
Exhibition

PAPER#	PAPER TITLE & AUTHOR
# PB112	Morphology and recent sub-surface stratigraphy of Dove Basin, Scotia Sea: Physiographic constraints on bottom current deposition <b>Dr. Francisco José Lobo</b>
# PB113	Morphology and seismic facies of a sedimentary wedge off São Sebastião Island, São Paulo Bight, southwest Atlantic Ocean <b>Dr. Francisco José Lobo</b>
# PB114	The marine geology of the 1 nautical mile exclusive zone around Robben Island, South Africa <b>Mr. Michael Machutcheon</b>
# PB115	Occurrence, characteristics and formation mechanisms of methane generated micro-pockmarks in Dunmanus Bay, SW Ireland <b>X Monteys</b>
# PB116	Characterization of Holocene NE Atlantic climatic variations using the cold-water coral <i>Lophelia pertusa</i> <b>Mr xavier Monteys</b>
# PB117	Seabed mapping of a deep-water basin; towards completing a broad-scale seabed substrate map of Ireland's offshore <b>Mr. Xavier Monteys</b>
# PB118	Cenozoic Calcareous Nannofossil Biostratigraphy and Paleooceanography of the Izu Bonin, western Pacific Ocean <b>Ms. Santi Dwi Pratiwi</b>
# PB119	Sea of Marmara as the Passage Way between the Black Sea and the Aegean Sea <b>Mr. Recai Sergin</b>

## Monday - Posters

17:45–19:00

T44.P1 - Palaeontology and Palaeo-anthropology  
Exhibition

PAPER#	PAPER TITLE & AUTHOR
# PB120	Stratigraphy and paleoecology of Middle Jurassic dinocyst assemblages from the Dnieper-Donets Basin of central Ukraine <b>Dr. Olena Shevchuk / Prof. Vivi Vadja</b>
# PB121	Dwarfism of irregular echinoids from Poland during the Campanian-Maastrichtian Boundary Event (CMBE) <b>Ms. Katarzyna Leško / Dr. Mariusz Salamon</b>
# PB122	First Report of Trace Fossils from Lower Odania Member of Lathi Formation of Jaisalmer Basin, Akal area, district -Jaisalmer, Western Rajasthan, India <b>Dr. Virendra Singh Parihar</b>



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# PB123	A first report of wood-boring trace fossil <i>Asthenopodichnium</i> and <i>Teredolites</i> from the Barmer Hill Formation of the Barmer Basin, Western Rajasthan, India <b>Dr. Suresh Chandra Mathur</b>
# PB124	Juvenile <i>Kosoidea</i> sp. from Lower Paleozoic strata, Paraná Basin, Brazil <b>Dr. Carolina Zabini</b>
# PB125	Towards a better understanding of the origins of microlens arrays in Mesozoic echinoderms <b>Dr. Przemysław Gorzelak</b>
# PB126	Dwarfism of irregular echinoids from Poland during the Campanian-Maastrichtian Boundary Event (CMBE) <b>Ms. Katarzyna Leśko</b>
# PB127	Fossil woods from the Cretaceous deposits of Russian Far East <b>Dr. Maxim Afonin</b>
# PB128	Changes in rodents associations from cave sediments (Romania) during the Upper Pleistocene main climatic events <b>Dr. Alexandru Petculescu</b>
# PB129	Taxonomy of <i>Cypridea</i> Bosquet 1852 (Crustacea, Ostracoda) from Quiricó Formation, Lower Cretaceous from São Francisco basin, State of Minas Gerais, Brazil: new relative dating and remarks on nodding <b>Ms. Amanda Moreira Leite</b>
# PB130	The Microvertebrate fauna from the Palaeocene – Eocene of Akli Formation of Barmer Basin, Western Rajasthan, India <b>Dr. Shanker Lal Nama</b>
# PB131	Role of temperature in brachiopod migration? Evidence from the Jurassic sediments of western India <b>Dr. Debahuti Mukherjee</b>
# PB132	On <i>Damonella ultima</i> from the Santana Formation (Upper Aptian, Lower Cretaceous), Araripe basin, Northeastern Brazil <b>Dr. Lucas Antonietto</b>
# PB133	Turritelline dominated assemblages from the Miocene of Kutch, western India reveal depositional histories and the nursery ground of the species <b>Dr. Kalyan Halder</b>
# PB134	Middle Ordovician La Cristalina Formation: After 50 years new fossil localities were found, including the first Ordovician foraminifera in Colombia <b>Ms. Maria Fernanda Almanza Melendez</b>
# PB135	Corals of Narara Bet, Jamnagar District, Gujarat and its implication in Sea level Changes <b>Dr. Arpita Pankaj</b>
# PB136	New findings of galeaspid (Agnatha) from the Siluro-Devonian of China <b>Dr. Zhikun Gai / Dr. Yuhai Liu / Dr. Min Zhu</b>
# PB137	Hexactinellid sponge <i>Amphispongia</i> from Pennsylvanian of United States of America <b>Msc. Lucas Mouro</b>
# PB138	First report on Trace Fossils from flysch sediments of Nagaland, Northeast India and their Significance <b>Dr. Hemanta Singh Rajkumar</b>
# PB139	Carbon isotope in tooth enamel of Pleistocene megamammals from Alagoas and Pernambuco, northeastern Brazil <b>Dr. Alcides Sial</b>
# PB140	Advance in Cretaceous bennettitalean trunk from China <b>Dr. Yeming Cheng</b>

## Monday - Posters

17:45–19:00

### T48.P1 - Planetary Sciences and Meteorite Impacts Exhibition

PAPER#	PAPER TITLE & AUTHOR
# PB141	Significance on microstructures and morphochemistry of schreibersite from Agoudal iron meteorite (IIAB), one of the latest find of Morocco <b>Dr. Dwijesh Ray</b>
# PB142	Shock petrography of the target rocks and impactites from the M4 Drillcore, Morokweng Impact Structure, South Africa <b>Mrs. S'indile Wela</b>
# PB143	Does Astrobiology require an astrobioethical approach? <b>Prof. Jesús Martínez-Frías</b>
# PB144	Vredefort Impact Structure: larger than previously thought? <b>Mr. Daniel Connelly</b>
# PB145	How fast were huge landslides in Valles Marineris (Mars)? <b>Prof. Francesca Bozzano</b>
# PB146	Chemistry of Conglomerates analyzed by Curiosity at Gale crater, Mars <b>Dr. Nicolas Mangold</b>



Movie Night - Monday HALL 4B 1			18:00–20:36
#	TIME	TITLE & DESCRIPTION	RUNNING TIME
1	18:00 - 18:05	<b>TECTONIC EVOLUTION OF AFRICA - SCOTESE ANIMATION</b> This animation shows the plate tectonic and paleogeographic evolution of Africa from 200-million years ago to the present-day. Africa originally occupied the center of Pangea. About 200-million years ago, Pangea rifted apart. To the east of Africa, the Indian Ocean opened. To the west of Africa, the Central Atlantic opened. About 150-million years ago, South America rifted away from Africa opening the South Atlantic Ocean. Scotese, C.R., and Scotese, J.D., 2006. Plate Tectonic Evolution of Africa, PALEOMAP Project, Evanston, IL. <a href="http://youtu.be/9OFyl2hsQ3k">http://youtu.be/9OFyl2hsQ3k</a>	0:05
2	18:05 - 18:10	<b>SOUTH AFRICA'S BUSHVELD COMPLEX</b> The Bushveld Complex in South Africa is the largest repository of platinum group elements in the world. Covering 65,000 km <sup>2</sup> it is up to 8 km thick. This short film provides an summary overview of its geology and formation and the history of mining and exploitation.	0:05
3	18:10 - 18:30	<b>CENTRAL RAND GOLDFIELDS</b> The Central Rand Goldfield in the Witwatersrand Basin was exploited between 1886 and the early 1970s and produced in the region of 250 Moz Au, primarily from the Main Reef Leader and to a lesser degree the Main Reef, the Bird Reef and the Kimberley Reef. This short film provides a unique historical view of those early days from archive footage and also provides a great overview of the geology and mining.	0:20
4	18:30 - 18:35	<b>DOWN A MINE – A LONG JOURNEY UNDERGROUND</b> A first-person view of a journey underground at one of South Africa's oldest gold mines in the Barberton area, Mpumalanga Province. Filmed using a GoPro, the video shows the numerous stages involved in the journey to the rock face on the underground mining level, final depth from surface approx 2 km!	0:05
5	18:35 - 19:00	<b>RESCUE AT KLOOF GOLD MINE</b> <b>Before “The 33”, there was “The 150”.</b> At 12:15 on 13 October 1993, a collapse of equipment down the #3 subvertical shaft at Kloof gold mine destroyed the hoisting capability, communications and service from 27 level downwards, trapping 150 miners over 3,200 m underground. This historical film documents the co-ordinated rescue efforts of these deep-level search and recovery experts and the successful return of all 150 miners.	0:25
6	19:00 - 19:06	<b>BARBERTON MAKHONJWA GEOTRAIL - INTRODUCTION</b> The Barberton Makhonjwa Geotrail in Mpumalanga, South Africa is a 37 km scenic, self-drive route between Barberton and Swaziland that takes you more than 3 billion years into the past. Interpretation panels and landscaped laybys at significant geological and view sites explain the geology and rock formations on which the area's World Heritage Site nomination rests. The geotrail reveals the significance of the Barberton Greenstone Belt in every-day language and concepts and shows how scientists think Earth may have looked, bringing the Archaean eon to life and explaining how the landscape became what it is today.	0:06
7	19:06 - 19:12	<b>A GEOLOGICAL EXCURSION TO SOUTH AFRICA AND SWAZILAND</b> Southern Africa is the perfect place to study the birth of the earth's crust. For now, the debate will continue regarding whether plate tectonic processes were operating during the Archean Era. Field and laboratory studies are expected to eventually solve this problem. The fantastic geology of South Africa and Swaziland hold the key to resolving this debate.	0:06
8	19:12 - 20:36	<b>SPECIAL PRE-RELEASE SCREENING:</b> <b>THIS IS OUR AFRICA – THIS IS US: GOLDEN GATE NATIONAL PARK</b> The story of Golden Gate National Park, South Africa's Jurassic Park, located in what was once was the centre of Gondwanaland. Experience grandeur of the Drakensberg mountains. The story of people and places around the Golden Gate Highlands National Park in the South-eastern Free State South Africa; home to rock art thousands of years old, fossils of various life forms dating back some 200 millions years, a variety of fauna & flora, and petrified sand dune formations that stretch back to the time when Africa was part of the super continent Pangea. The area is also rich in Basotho, English and Boer war histories, with time capsules of those events dotted all over the golden valley and around the park. Like the Boer farm house that was spared because the occupants had a portrait of Queen Victoria hanging in the house. Or the oldest known dinosaur eggs and embryos? How about three layers of stone in the petrified dunes, with each layer stretching halfway across the country? This is a special pre-release screening exclusive to IGC attendees.	1:24



# Monday 29 August

## ◆ SOCIAL PROGRAMME

TIME	DATE	FUNCTION	VENUE
17:45 - 20:00	28 August	WELCOME FUNCTION / ICE-BREAKER	Exhibition Area, CTICC
17:00	28 August	ACCOMPANYING PERSONS ORIENTATION AND WELCOME	Accompanying Persons Lounge, CTICC
07:00 - 09:30	29 August	GEOHOST RECEPTION (INVITATION ONLY)	Marimba Restaurant, CTICC
18:30 - 21:00	29 August	IUGS RECEPTION FOR NATIONAL DELEGATES (INVITATION ONLY) (No transport provided)	Artscape Theatre (450 meter walk from CTICC)
12:00 - 14:00	30 August	GERMAN COMMITTEE – IUGS LUNCH (INVITATION ONLY)	Marimba Restaurant, CTICC
19:00 - 23:00	30 August	KOREAN NIGHT (INVITATION ONLY)	Westin Ballroom
19:00 - 23:00	30 August	CHINESE DELEGATION DINNER (INVITATION ONLY)	Marimba Restaurant, CTICC
19:00 - 21:00	31 August	DINNER HOSTED BY 36 <sup>TH</sup> IGC, INDIA (INVITATION ONLY)	The Reserve, Taj Cape Town
20:00 - 23:00	1 September	THEME DINNER (Pre-registration only) (No transport provided)	Zip Zap Circus Tent, DF Malan Street, Foreshore, Cape Town
17:45 - 19:00	Daily: 29 August - 1 September	HAPPY HOUR	Poster and Exhibition Area, CTICC
18:00 - 20:00	31 August	STUDENT GEO-QUIZ (Registration at the EAGE stand)	Hall 4 B1, CTICC
18:00 - 20:00	29 August and 1 September	MOVIE NIGHT (All attendees invited)	Hall 4 B1, CTICC
10:00 - 16:00	Daily: 11:00, 12:00, 15:00, 16:00	FREE WINE TASTING & SALES and DIAMOND AND TANZANITE WORKSHOP & SALES (Pre-registration only via Albert Dreyer   Knights Catering & Events - albert@knightsevents.co.za )	Diamond Works Show Room (across from CTICC), Ground Floor, Metropolitan Life Centre, 7 Walter Sisulu Avenue, Cape Town

## ◆ AGU HOT TOPIC LOUNGE SCHEDULE

MONDAY	
13:20 - 13:40	The Peer Review Process and Tips to Improve Your Manuscript
13:40 - 14:00	How to Become a Reviewer and Review a Manuscript Effectively
15:40 - 16:00	How to Write an Abstract
17:45 - 18:15	Hot Topic Discussion: Planetary Sciences in Africa

WEDNESDAY	
07:45 - 08:15	The Peer Review Process and Tips to Improve Your Manuscript
10:00 - 10:20	Data Skills and Reproducibility
13:20 - 14:00	Hot Topic Discussion: Climate Change and Water Resources in Africa
15:40 - 16:00	Gender Issues in the Earth sciences
17:40 - 18:00	Hot Topic Discussion: The Dynamic Earth and its Kimberlite, Cratonic Mantle and Diamond Record through Time

FRIDAY	
07:45 - 08:15	About AGU
10:00 - 10:20	The Peer Review Process and Tips to Improve Your Manuscript

TUESDAY	
07:45 - 08:15	About AGU
10:00 - 10:20	Meet AGU Editors from JGR: Planets and Tectonics
13:20 - 14:00	Hot Topic Discussion: Resourcing Future Generations
15:40 - 16:00	Data Management/Reproducibility
17:40 - 18:00	Publication and Scientific Ethics

THURSDAY	
07:45 - 08:15	How to Participate in the Thriving Earth Exchange
10:00 - 10:20	Meet AGU Editors from JGR: Planets and Tectonics
13:20 - 14:00	Hot Topic Discussion: Hadean and Archean Earth
15:40 - 16:00	How to Become a Reviewer and Review a Manuscript Effectively
17:40 - 18:00	Career Development Tools and Advice



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