### Monday - Plenary Session 1
**Plenary Session 1**
**Auditorium 1**
**TIME** | **PAPER #** | **PAPER TITLE & AUTHOR**
---|---|---
12:15 | # 5602 | Is Africa doing enough to promote its mineral endowment  
*Sipho Nkosi*

### Monday - Plenary Session 2
**Plenary Session 2**
**Auditorium 1**
**TIME** | **PAPER #** | **PAPER TITLE & AUTHOR**
---|---|---
12:15 | # 3887 | Grand Challenges in the Mineral Life Cycle  
*Dr. Thomas Graedel*

### Monday - Session 1
**T1.1 - Geoheritage and Geoparks**
**MR 1.62**
**TIME** | **PAPER #** | **PAPER TITLE & AUTHOR**
---|---|---
14:00 | # 5475 | Geodiversity, Geoheritage and Geoconservation for Society  
*Prof. Murray Gray (KEYNOTE SPEAKER)*
14:30 | # 3873 | Geodiversity, heritage, conservation and society: The role of the journal Geoheritage in raising awareness and disseminating good practice  
*Dr. Kevin Page*
14:45 | # 4225 | Assessing geoheritage significance in studies of palaeoecology – the need to address biocoenoses, thanatocoenoses, biodiversity, palaeo-biodiversity, and quantification  
*Dr. Vic Semeniuk*
15:00 | # 173 | Geology, Landscape and Earth-Life Link in the Kruger National Park  
*Prof. Morris Viljoen*
15:15 | # 2073 | State and prospects of geotourism potential of Uzbekistan  
*Dr. Rustam Mirkamalov*

### Monday - Session 2
**T1.2 - Geoheritage and Geoparks**
**MR 1.62**
**TIME** | **PAPER #** | **PAPER TITLE & AUTHOR**
---|---|---
16:00 | # 4837 | The role of tourist attractions on the Southern Islands of Iran to development of sea-based  
*Ms. Bita Mirzapour*
16:15 | # 4082 | Geology and Geoheritage in the Sahara and Sahel  
*Dr. Sharad Master*
16:30 | # 5392 | Geological and Cultural Landscapes of the Ancient Mapungubwe and Thulamela Citadels  
*Dr. Richard Viljoen*
16:45 | # 4348 | Coastal geomorphological processes shaped iSimangaliso World Heritage Site  
*Dr. Greg Botha*
17:00 | # 1457 | Geopark and Geotourism Development in the Sikkim Himalaya, India  
*Prof. Vinod Tewari*
17:15 | # 3406 | Stratotypes for the public  
*Prof. Patrick De Wever*
17:30 | # 1041 | 16th Century mining in Europe and a Shipwreck on the Namibian Coast  
*Dr. Gabriele Schneider*

### Monday - Session 1
**T3.1 - Launch of PanAfGeo**
**MR 1.63**
**TIME** | **PAPER #** | **PAPER TITLE & AUTHOR**
---|---|---
14:00 | # 5626 | Launch of PanAfGeo

### Monday - Session 2
**T3.2 - Launch of PanAfGeo**
**MR 1.63**
**TIME** | **PAPER #** | **PAPER TITLE & AUTHOR**
---|---|---
16:00 | # 5576 | PanAfGeo: Evolution of a milestone in European and African geological collaboration  
*Mr. Koen Verbruggen (KEYNOTE SPEAKER)*
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| 16:30 | # 3487  | Environmental Management of Mines  
Mr. Berndt Pettersson |
| 16:45 | # 3488  | PanAfGeo: Artisanal and Small-scale Mining in Africa  
Dr. John Tychsen |
| 17:00 | # 3504  | PanAfGeo project: A Pan African support to the EGS-OAGS partnership  
Mr. Jean-Claude Guillaneau |
| 17:15 | # 3590  | PanAfGeo Project: Geoscience information management  
Dr. Marc Urvois |
| 17:30 | # 3626  | PanAfGeo Project: Mineral Resources  
Mrs. Riitta Teerilahti |
| 17:45 | # 3774  | Capacity Building on Geohazards in Africa - PanAfGeo Project  
Dr. Jonas Satkunas |
| 18:00 | # 4585  | Perspectives on geoheritage research and promotion for African geological survey organizations  
Dr. Enrique Diaz-Martinez |

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

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| 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)  
Dr. Pedro Zarate-Del Valle |
| 14:15 | # 844   | Lower Gondwana Cryosphere of the Sikkim Lesser Himalaya,(Himalayan Gondwana), India  
Prof. Vinod Tewari |
| 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 BAGOUE (North Region of Côte d’Ivoire)  
Mr. Kouao Laurent Kouadio |
| 15:00 | # 1553  | Impact of climate change on livelihood of Central Himalayan communities  
Dr. Mahabir Singh Negi |
| 15:15 | # 3376  | Climate Change- Identification of Deep Saline Aquifer for CO2 Sequestrationin Bikaner-Nagaur Basin, Rajasthan, India  
Dr. Devinder Kumar Chadha |

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

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

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

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| 10:30 | # 4748  | Groundwater recharge in Africa: identifying critical thresholds  
Prof. Alan MacDonald |
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| 10:45    | # 196   | Groundwater exploration using electromagnetic frequency domain and electroseismic sounding methods in Kalahari sands and Karoo Sequence in Zimbabwe  
Mr. Joseph M Zulu |
| 11:00    | # 2599  | Hydrogeological investigation to protect the Itawa Spring in Ndola, Zambia           
Dr. Tobias El-Fahem |
| 11:15    | # 2600  | Groundwater Resources Management for Lusaka Water Supply, Zambia                    
Dr. Tobias El-Fahem |
| 11:30    | # 3852  | Deep Groundwater Systems in Southern Africa - from occasional findings towards an exploration strategy  
Dr. Thomas Himmelsbach |
| 11:45    | # 525   | Groundwater resources of Burundi. New elements and decision making tools.           
Dr. Alexis Gutierrez |

**Monday - Session 2**

**T5.2 - Hydrogeology and Hydrochemistry of Arid and Semi-Arid Africa: A Tribute to W. M. Edmunds**  
MR 2.64 - 2.66  
16:00–17:45

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| 16:00    | # 2188  | Regional exploration technique of groundwater resource in the Precambrian areas of Mozambique through an integration of Topographic and Geophysical data  
Mr. Luis Magaia |
| 16:15    | # 4142  | An assessment of groundwater contamination at the Empangeni and Richards Bay landfill areas, Kwazulu-Natal, South Africa  
Dr. Vetrimurugan Elumalai |
| 16:30    | # 4614  | Groundwater Resource Assessment of the deep confined Peninsula Aquifer in Blossoms (Oudtshoorn), Western Cape, South Africa  
Mr. David McGibbon |
| 16:45    | # 4605  | Cape Flats Aquifer and False Bay - opportunities to change  
Mr. David McGibbon |
| 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  
Mr. Fanie De Lange |
| 17:15    | # 4840  | Groundwater resources of the Danakil Depression (northeastern Ethiopia) – hydrogeology in the hottest place on Earth  
Dr. Dylan Blake |
| 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 Bousselham Region - North Western Morocco)  
Mr. Issam Bougharn |

**Monday - Session 1**

**T6.1 - Forensic Soil Science and Geology**  
Westin - Victoria & Alfred  
14:00–15:30

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| 14:00    | # 3078  | Successes and failures in detecting buried non-metallic objects using ground (and water) penetrating radar (WPR & GPR)  
Dr. Alistair Ruffel |
| 14:15    | # 3649  | A GIS-based landscape approach to Forensic Search Strategies and RAG mapping  
Dr. Jennifer McKinley |
| 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  
Dr. Laurance Donnelly |
| 14:45    | # 1359  | Establishing Australia’s first body farm - the Australian Facility for Taphonomic Experimental Research (AFTER)  
Prof. Shari Forbes |

**Monday - Session 2**

**T6.2 - History and Future of Forensic Soil Science and Geology / Recent Developments**  
Westin - Victoria & Alfred  
16:00–17:45

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| 16:00    | # 4051  | The Importance of the Field of Forensic Soil Examination being Aligned with the Wider Discipline of Forensic Science  
Prof. Hilton Kobus |
| 16:15    | # 3838  | Geological Society of London (GSL), Forensic Geoscience Group (FFG); the first 10 years and the International Union of Geological Sciences (IUGS), Initiative on Forensic Geology (IFG); the first 5 years  
Dr. Laurance Donnelly |
| 16:30    | # 64    | Igneous Phosphate Resources of East and South east Africa  
Mr. Wondafrash Mammo Ghebre |
| 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  
Mr. Skip Palenić |
### Monday - Session 1

**T7.1 - Geoscience Information and Data in Africa**

**MR 2.44 - 2.46**

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| 14:00 | # 4215  | Predicting the origin of soil evidence: high throughput eukaryote sequencing and MIR spectroscopy applied to a crime scene scenario  
Dr. Jennifer Young |

**TIME**

14:00–15:30

### Monday - Session 2

**T7.2 - Geoscience Information and Data in Africa**

**MR 2.44 - 2.46**

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</table>
| 16:00 | # 5368  | Sustainable Geoscience Information In Africa - The GIRAF Network And Its Future Development  
Dr. Kristine Asch |
| 16:15 | # 2926  | Towards geoscientific data integration: Challenges, Approaches and Implementation  
Mrs. Magda Roos |
| 16:30 | # 5458  | Harmonization of Geoscience data in Africa to enhance geoscientists interaction for knowledge transfer and exchange of experience  
Mr. Mesfin Wubeshet Gebremichael |
| 16:45 | # 5598  | Geoscience Data in Africa – Lesotho  
Mr. Ishmael Hareteke Khalema |
| 17:00 | # 5597  | Towards geospatial information partnerships within the Southern African Customs Union  
Mr. Lopang Maphale |
| 17:15 | # 5398  | Contribution of Geological Data to the Namibian National Spatial Data Infrastructure  
Mrs. Anna-Karren Nguno |

**TIME**

16:00–17:45

### Monday - Session 1

**T8.1 - Geohazards**

**Hall 4B2**

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</table>
| 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  
Dr. Dirk Balzer |
| 14:15 | # 2263  | The south eastern 'basement' complex of South Sudan  
Mr. Timothy Marais |
| 14:30 | # 4597  | Historical perspective, role and challenges in the use of geosciences information in mineral resources exploitation and in planning for social-economic development in Zambia.  
Mr. Vincent Kawamy |
| 14:45 | # 5582  | The application of historical geological and airborne data in Mining Industry – case of coal sector in Mozambique  
Mr. Alfredo Pontavida |
| 15:00 | # 5622  | 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  
Mrs. Rosemary Okla |
| 15:15 | # 2328  | Regional GIS based exploration targeting studies in data poor environments: A case study of gold prospectivity mapping in Nigeria  
Dr. Matthew Greentree |
| 15:30 | # 5594  | Spatial relationships between contaminated mining areas and pathological states around Kadoma, Zimbabwe  
Ms. Daina Mudimbu |
| 15:45 | # 3388  | Seismotectonic features of the African plate: The possible dislocation of a continent  
Dr. Robert Tomas |

**TIME**

14:00–15:30

### Monday - Session 2

**T8.2 - Geohazards**

**Hall 4B2**

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| 15:45 | # 3388  | Seismotectonic features of the African plate: The possible dislocation of a continent  
Dr. Robert Tomas |
### Monday - Session 1

**T8.1a - Geohazards: Prevention, risk reduction, early warning and preparedness**

#### Roof Terrace

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| 14:00    | # 3723      | The Use of Geographical Information Systems (GIS) in Seismic Microzonation Studies  
**Prof. Dr. Orhan Tatar** |
| 14:15    | # 4828      | Foreshock activity as a component of the seismic early warning  
**Dr. Gerasimos Papadopoulos** |
| 14:30    | # 5502      | Landslide environment in Pakistan after the earthquake-2005  
**Shahina Tariq** |

### Monday - Session 2

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

#### Hall 4B2

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

### Monday - Session 2

**T8.2a - Geohazards**

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

### Monday - Session 1

**T10.1 - General contributions on the history of geology**

#### MR 1.64

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| 14:00    | # 1257      | An empire of water, islands of fire: Perspectives on 18th-century geology  
**Prof. Kenneth Taylor (KEYNOTE SPEAKER)** |
| 14:30    | # 4490      | Dr. Woodward’s Cabinet of Dangerous Dreams: Geology in the Age of Enlightenment  
**Dr. Kenneth McNamara** |
| 14:45    | # 1641      | Contribution of Ignacy Domeyko (1802 – 1889) for geology of Poland, Lithuania and Chile  
**Prof. Marek Groniczny** |
| 15:00    | # 3706      | Development of geological and geophysical cartography in Poland (XVIII – XXI cent.)  
**Prof. Piotr Krzywiec** |
| 15:15    | # 3926      | Cambrian System in Siberia – discovery “at a desk”  
**Mr. Leonid Kolbantsev** |
### Monday - Session 2  
**T10.2 - General contributions on the history of geology**  
**MR 1.64**  
16:00–17:45

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

### Monday - Session 1  
**T12.1 - Geoethics – General Aspects**  
**MR 2.41 - 2.43**  
14:00–15:30

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

### Monday - Session 2  
**T12.2 - Geoethics and Geoscience Organisations**  
**MR 2.41 - 2.43**  
16:00–17:45

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

### Monday - Session 1  
**T14.1 - Environmental Management of Water Resources**  
**MR 2.61 - 2.63**  
14:00–15:30

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| 14:00 | # 4135  | Sustainable Options to Manage Acid Mine Drainage in the Witwatersrand Gold Fields  
*Dr. Henk Coetzee*  
*KEYNOTE SPEAKER* |
| 14:30 | # 4080  | Environmental Monitoring Programme – Northern Mozambique and South Malawi  
*Mr. Simplicio Chivambo* |
| 14:45 | # 3308  | Groundwater basin management based on monitoring system - Groundwater level and land subsidence, Kanto Groundwater Basin in Japan  
*Mr. Kunio Furuno* |
| 15:00 | # 2284  | Modeling of Basic Water Quality and Fate of Organic Contaminants in Swarna River Basin, Southwestern India  
*Dr. Hn Udaya Shankara* |
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<td># 2280</td>
<td>Application of QUAL2Kw as a Modelling Tool for Water Quality Modelling in Swarna River, South-western India</td>
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<td>Dr. Udaya Shankara Harikripa Narayana</td>
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<td>16:15</td>
<td># 204</td>
<td>A Study of the Vulnerability of a South African Coastal Plain Aquifer to Seawater Intrusion Using the GALDIT Index Method</td>
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<td>Dr. Molla Demlie</td>
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<td>16:30</td>
<td># 32</td>
<td>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</td>
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<td>Prof. Barth Ekweume</td>
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<td>16:45</td>
<td># 5096</td>
<td>The bioremediation of thiocyanate from gold mine tailings</td>
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<td>Dr. Mathew Watts</td>
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<td>17:00</td>
<td># 4965</td>
<td>Oxygen diffusion and geochemical speciation in abandoned gold mine tailings dams of the Witwatersrand</td>
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<td>Mr. Johan Fourie</td>
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<td>17:15</td>
<td># 4657</td>
<td>The distribution of some potentially harmful elements (PHEs) in the Krugersdorp Game Reserve, Gauteng, South Africa: Implications for wildlife health</td>
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<td>Dr. Michael Shapi</td>
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<tr>
<td>17:30</td>
<td># 4531</td>
<td>Ground movement as a result of dewatering in the Far West Rand area of Johannesburg resulting in the formation of Sinkholes and Dolines</td>
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<td>Mr. Kedibone Phogole</td>
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<tr>
<td>14:00</td>
<td># 5257</td>
<td>The deterioration of building stones by salt crystallization</td>
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<td>Dr. Maria Heloisa Barros De Oliveira Frascá</td>
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<tr>
<td>14:15</td>
<td># 894</td>
<td>Natural Stones of Malawi: Key to Economic and Sustainable Development</td>
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<td>Ms. Tamara Faith Kamanga</td>
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<td>14:30</td>
<td># 5018</td>
<td>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</td>
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<td>Dr. Bassem Nabawy</td>
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<td>14:45</td>
<td># 1419</td>
<td>“Giallo Siena” marble (Italy): a nomination for “Global Heritage Stone Resource”</td>
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<td>Dr. Piero Primavori</td>
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<tr>
<td>16:00</td>
<td># 3364</td>
<td>Heritage stones as part of the Global Geoheritage</td>
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<td>Dr. Bjørn Schouenborg</td>
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<tr>
<td>16:15</td>
<td># 3363</td>
<td>Martinamor granite, revisited</td>
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<td>Dr. Lola Pereira</td>
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<tr>
<td>16:30</td>
<td># 4264</td>
<td>Estremoz Marble: A nomination for ‘Global Heritage Stone Resource’ from Portugal</td>
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<td>Prof. Luis Lopes</td>
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<td>16:45</td>
<td># 356</td>
<td>Heritage Stone in South Australia</td>
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<td>Prof. Barry J. Cooper</td>
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<td>17:00</td>
<td># 1418</td>
<td>Botticino marble (Italy): a nomination for “Global Heritage Stone Resource”</td>
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<td>Dr. Piero Primavori</td>
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<td>17:15</td>
<td># 1964</td>
<td>Lower Cretaceous building sandstones in NW-Germany and their worldwide use</td>
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<td>Dr. Angela Ehling</td>
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<td>17:30</td>
<td># 4842</td>
<td>The significance of Macael region (SE of Spain) in the use of the natural stone in Spain</td>
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<td>Dra. Dolores Pereira</td>
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<td>14:00</td>
<td># 5633</td>
<td>IAMG Award Ceremony</td>
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<td>14:15</td>
<td># 5634</td>
<td>MATHERON LECTURE: The Geostatistical Invasion of the Petroleum Industry; One Perspective from an Applied Geostatistician</td>
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<td>Dr. Jeffrey Yarus (KEYNOTE SPEAKER)</td>
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### Monday - Session 2  
**T16.2 - IAMG Plenary Session**  
**Westin - Ballroom East**

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| 16:00 | # 5570 | Krumbein Lecture: The stochastic modelling and simulation of fractures in rock masses  
*Prof. Peter Dowd (KEYNOTE SPEAKER)* |
| 17:00 | # 5557 | Griffiths Award: From constant sum constraint to association of compositional variables  
*Dr. Juan Jose Egozcue (KEYNOTE SPEAKER)* |

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

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

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

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| 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  
*Mr Lyndon De Meillon* |
| 16:15 | # 5342 | Bisie - World’s Largest and Richest Undeveloped Tin Deposit  
*Ms. Helen Pein* |
| 16:30 | # 4455 | Chemostratigraphy and geochemical vectoring at the Rapla prospect, Rathdowney Trend, Ireland  
*Mr. Oakley Turner* |
| 16:45 | # 4959 | The Groenfontein and Zaaiplaats Tin Deposits – a model for the future of Tin Exploration?  
*Dr. Luke Longridge* |
| 17:00 | # 5053 | The “Montaña de Manganeso” Mn deposit, San Luis Potosí, Mexico: mineralizing fluids and deposit typology  
*Mr. Joseph Madondo* |
| 17:15 | # 5366 | Vanadium, Iron, Titanium and Phosphate mineralisation in the Upper Zone of the Northern Limb of the Bushveld Complex  
*Mr. Troth Saindi* |
| 17:30 | # 5400 | Prospectivity mapping of the Bushveld granite-related mineralisation in selected areas, South Africa  
*Mr. Litschedzani Mutele* |

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

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| 14:00 | # 5292 | Links between porphyry and IOCG deposits  
*Prof. Jeremy P. Richards (KEYNOTE SPEAKER)* |
| 14:30 | # 5341 | Primary fluid chemistry: the key driver of metal budgets and dispersion geochemistry in hydrothermal ore systems?  
*Dr. Jamie Wilkinson* |
| 14:45 | # 3678 | Vapours, Volcanoes and Ore Formation  
*Prof. Anthony Williams-Jones (KEYNOTE SPEAKER)* |
| 15:15 | # 4735 | Porphyry copper enrichment linked to excess  
*Dr. Ben Williamson* |
### Monday - Session 2
**T18.2 - Ore-forming processes associated with hypabyssal magmatic and related volcanic systems (Sponsored by IAGOD)**  
**Ballroom East**

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

### Monday - Session 1  
**T19.1 - Coal**  
**Westin - Marco Polo**

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

### Monday - Session 2  
**T19.2 - Coal**  
**Westin - Marco Polo**

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| 16:00 | # 4672  | The Coal Deposits of Mozambique  
*Mr. Andy Lloyd* |
| 16:30 | # 3381  | Petrographic Characteristics of the Low Sulphur Coals from the Campanian-Maastrichtian Mamu Formation, Anambra Basin, South East Nigeria.  
*Dr. Izuchukwu Mike Akaegbobi* |
| 17:00 | # 233  | Deep seated occurrence of coal below Upper Gondwana Litho units in Bayyaram Area , Godavari Valley Coalfield, Khammam district, Telangana State, India  
*Mr. Rajesh S* |
| 17:15 | # 4688  | The coals at the P/T boundary in southern China: their petrology, mineralogy and isotope geochemistry  
*Prof. Longyi Shao* |

### Monday - Session 1  
**T20.1 - Petroleum systems of the On-shore basins of Africa (convened by Tullow Oil Ltd)**  
**MR 1.43 - 1.44**

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| 14:00 | –       | INTRODUCTION  
*Mr. Ian Cloke* |
| 14:15 | # 3036  | The Influence of the Timing of Subsidence and Climate in determining whether Individual Rift Basins will become Petroliferous or not  
*Mr. Paul Burden (KEYNOTE SPEAKER)* |
| 14:45 | # 4913  | The Petroleum System of the South Lokichar Basin, Kenya (EARS)  
*Mr. Gion Kuper (KEYNOTE SPEAKER)* |
### Monday - Session 2
**T20.2 - Petroleum systems of the On-shore basins of Africa (convened by Tullow Oil Ltd)**

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<tr>
<td>16:00</td>
<td># 5492</td>
<td>Oil Reservoirs and Traps in the Albertine Rift of Uganda&lt;br&gt;<strong>Richard Steele (KEYNOTE SPEAKER)</strong></td>
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<td>16:30</td>
<td># 5491</td>
<td>The Mid Zambezi Basin – could this be the 'Karoo' basin that works?&lt;br&gt;<strong>Nigel Quinton (KEYNOTE SPEAKER)</strong></td>
</tr>
<tr>
<td>17:00</td>
<td># 5178</td>
<td>Developing a regional geological framework for the Horn of Africa&lt;br&gt;<strong>Dr. John Fisher (KEYNOTE SPEAKER)</strong></td>
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### Monday - Session 1
**T26.1 - Understanding the Mineral Life Cycle**

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<tr>
<td>14:00</td>
<td># 3510</td>
<td>Impact of global change on resources – exploration to markets&lt;br&gt;<strong>Dr. John Thompson (KEYNOTE SPEAKER)</strong></td>
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<td>14:30</td>
<td># 815</td>
<td>African Copper&lt;br&gt;<strong>Prof. Murray Hitzman</strong></td>
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<td>14:45</td>
<td># 175</td>
<td>Mineralisation in the Bushveld Complex&lt;br&gt;<strong>Prof. Morris Viljoen</strong></td>
</tr>
<tr>
<td>15:00</td>
<td># 4006</td>
<td>Mineral Resources - Supply, Demand, and the Future&lt;br&gt;<strong>Dr. Lawrence Meinert</strong></td>
</tr>
<tr>
<td>15:15</td>
<td># 3121</td>
<td>Innovative uses of geological materials as crop nutrients&lt;br&gt;<strong>Prof. David Manning</strong></td>
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### Monday - Session 2
**T26.2 - Understanding the Mineral Life Cycle**

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<tr>
<td>16:00</td>
<td># 1158</td>
<td>Submarine mineral resources: who will mine them and who will reap the benefits?&lt;br&gt;<strong>Prof. Nicholas Arndt</strong></td>
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<td>16:15</td>
<td># 1805</td>
<td>Resourcing Future Generations&lt;br&gt;<strong>Mr. Edmund Nickless</strong></td>
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<td>16:30</td>
<td># 5509</td>
<td>Promoting RFG in conjunction with China’s “the Belt and the Road” initiative&lt;br&gt;<strong>Anjian Wang</strong></td>
</tr>
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<td>16:45</td>
<td># 3987</td>
<td>EIT RawMaterials, a new European initiative in Raw Materials&lt;br&gt;<strong>Dr. Karen Hanghøj</strong></td>
</tr>
<tr>
<td>17:00</td>
<td># 4825</td>
<td>Europe and Japan: Common challenges and threats on the supply of mineral raw materials&lt;br&gt;<strong>Dr. Kip Jeffrey</strong></td>
</tr>
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<td>17:15</td>
<td># 3048</td>
<td>The Dynamic Nature of Resource Availability: The Cases of Copper and Rare Earths&lt;br&gt;<strong>Prof. Roderick Eggert</strong></td>
</tr>
<tr>
<td>17:30</td>
<td># 3372</td>
<td>Global Trends in Mineral Commodities for Advanced Technologies&lt;br&gt;<strong>Dr. Steven Fortier</strong></td>
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### Monday - Session 1
**T29.1 - Rift basins and rifted margins: architecture and evolution**

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<td>14:00</td>
<td># 5017</td>
<td>Linking lithosphere deformation and sedimentary basin formation over multiple scales&lt;br&gt;<strong>Prof. Ritske S. Huismans</strong></td>
</tr>
<tr>
<td>14:15</td>
<td># 5030</td>
<td>Long-term coupling and feedbacks between surface processes and tectonics during rifting&lt;br&gt;<strong>Prof. Ritske S. Huismans</strong></td>
</tr>
<tr>
<td>14:30</td>
<td># 5027</td>
<td>The critical role of extension-orthogonal shears in oblique rift development&lt;br&gt;<strong>Prof. Ritske S. Huismans</strong></td>
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**Monday - Session 2**
*T29.2 - Rift basins and rifted margins: architecture and evolution*  
**Hall 4B3**  
16:00–17:45

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

**Monday - Session 1**
*T30.1 - Geology and Tectonics Of the Himalayan Orogenic Belt*  
**Auditorium 1**  
14:00–15:30

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

**Monday - Session 1**
*T30.1b - Mechanisms and timescale of West Gondwana amalgamation*  
**Westin - Ballroom West**  
14:00–15:30

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| 14:00 | # 3472  | Dating rocks from the Central Zone, Damara belt, Namibia: Time constraints on orogenic events  
Dr. Gerrit de Rokk |
| 14:15 | # 247   | Volcanic arc turbidites of the Ediacaran Rocha Formation linked to the Brasiliano Orogeny and Kalahari Craton (Cuchilla Dionisio Terrane, Uruguay)  
Dr. Gonzalo Blanco |
| 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  
Dr. Renata S. Schmitt |
| 14:45 | # 4963  | Timing of tectonic events in the Central Zone and the case for subduction in the of the Damara Belt, Namibia  
Dr. Luke Longridge |
| 15:00 | # 3932  | How to make a triple junction – new evidence for the assemblage of Gondwana along the Kaoko-Damara Belts, Namibia  
Dr. Cees Passchier (KEYNOTE SPEAKER) |
### Monday - Session 2
**T30.2 - Geology and Tectonics Of the Himalayan Orogenic Belt**
**Auditorium 1**

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

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

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| 16:00 | # 4955  | Tethyan ophiolites: Products of rift-drift, seafloor spreading & subduction zone tectonics of marginal basin evolution following the Gondwana breakup  
Dr. Yildirim Dilek (KEYNOTE SPEAKER) |
| 16:30 | # 727   | Detachment faulting at the Mid-Atlantic Ridge  
Dr. Catherine Mevel (KEYNOTE SPEAKER) |
| 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  
Dr. Mangi Khuman Chabungbam |
| 17:15 | # 1714  | The Paleo-Tethys ophiolite in the Qiangtang Block, north Tibet, China  
Dr. Qing Guo Zhai |
| 17:30 | # 3896  | Neogene orocline of central Japan and TTT-Triple junction consequence (A review): A hint for emplacement of oceanic and serpentinite bodies  
Dr. Yuijiro Ogawa |

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

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

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

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| 16:00 | # 4442  | Speleothems as monitors of landscape evolution  
Prof. Jon Woodhead |
| 16:15 | # 156   | Unravelling caldera-forming gigantic eruptions by Quaternary zircon U-Pb dating  
Dr. Hisatoshi Ito |
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<td>16:30</td>
<td>1789</td>
<td>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’&lt;br&gt;&lt;br&gt;Dr. Erin Matchan</td>
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<td>16:45</td>
<td>5334</td>
<td>Timing, duration, and causes for Late Jurassic-Early Cretaceous anoxia in the Barents Sea&lt;br&gt;&lt;br&gt;Dr. Holly Stein</td>
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**Monday - Session 1**<br>T36.1 - Large Igneous Provinces<br>MR 1.41 - 1.42<br>14:00–15:30

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<td>14:00</td>
<td>5070</td>
<td>LIPs in Space and Time&lt;br&gt;&lt;br&gt;Dr. Richard Ernst (KEYNOTE SPEAKER)</td>
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<td>14:30</td>
<td>594</td>
<td>Plume-related magmatic systems and their roots: Evidence from large igneous provinces and mantle xenoliths in basalts&lt;br&gt;&lt;br&gt;Dr. Evgenii Sharkov</td>
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<td>14:45</td>
<td>4393</td>
<td>Variably deformed and metamorphosed Palaeoproterozoic mafic dykes across the Nagssugtoqidian Foreland, SE Greenland&lt;br&gt;&lt;br&gt;Dr. Rian Bothma</td>
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<td>15:00</td>
<td>281</td>
<td>Petrology and geochemistry of mafic dyke and sills in cumbum formation, of the Proterozoic Nallamalai fold belt, Rajampet area, Andhra Pradesh, India&lt;br&gt;&lt;br&gt;Ms. Munmun Chakraborty</td>
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<td>15:15</td>
<td>3220</td>
<td>The Gawler Range Volcanics: Petrogenesis of a Silicic Large Igneous Province&lt;br&gt;&lt;br&gt;Prof. John Foden</td>
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**Monday - Session 2**<br>T36.2 - Large Igneous Provinces<br>MR 1.41 - 1.42<br>16:00–17:45

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<td>1941</td>
<td>Paleoproterozoic PGE-bearing Monchetundra Massif (Fennoscandian Shield): Isotope-Geochemical Nd-Sr Features of the Mafic Rocks&lt;br&gt;&lt;br&gt;Mr. Evgeniy Kunakkuzin</td>
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<td>16:15</td>
<td>4868</td>
<td>A ~3 Ga record of mafic dyke and sill swarms across the Kaapvaal Craton: Further structural and geochemical clues for six Large Igneous Provinces&lt;br&gt;&lt;br&gt;Dr. Martin Klausen (KEYNOTE SPEAKER)</td>
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<td>4730</td>
<td>Thermodynamic examination into the causation of the mineralogical cyclicity of the Upper Zone of the Bushveld Complex&lt;br&gt;&lt;br&gt;Ms. Tawnee Britt</td>
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<td>17:00</td>
<td>4715</td>
<td>Ti-thermometry of magmatic quartz in evolved rocks from the Bushveld Complex, South Africa&lt;br&gt;&lt;br&gt;Mr. Musawenkosi Buthelezi</td>
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<td>1891</td>
<td>Did the dioritic intrusions of the Vredefort Dome in South Africa form during the Bushveld event?&lt;br&gt;&lt;br&gt;Mr. Willem Kruger</td>
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<td>17:30</td>
<td>144</td>
<td>Trace element and Sr-isotopic variations in plagioclase of the Main and Upper zones, Northern and Western limbs, Bushveld Complex&lt;br&gt;&lt;br&gt;Dr. Frederick Roelofse</td>
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**Monday - Session 1**<br>T37.1 - Clays and Clay Minerals / Fluid and melt inclusion in Minerals<br>Westin - Seal/Robben<br>14:00–15:30

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<td>The effect of origin on firing behaviour of kaolinitic clays&lt;br&gt;&lt;br&gt;Prof. Aydin Aras</td>
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<td>Thermal stability as alternate indicator of ceramic potentials of selected South African kaolins&lt;br&gt;&lt;br&gt;Dr. Lawrence Diko Makia</td>
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<td>14:30</td>
<td>2156</td>
<td>Characteristics and environmental significance of the minerals in atmospheric dust of Shijiazhuang, China&lt;br&gt;&lt;br&gt;Prof. Wenlou Luan</td>
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<td>Hydrocarbons in Northern German salt domes – content, distribution, origin and structural position&lt;br&gt;&lt;br&gt;Mr. Maximilian Pusch</td>
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<td>15:15</td>
<td>3094</td>
<td>Low temperature synthesis of hydrocarbon fluid-bearing crystals&lt;br&gt;&lt;br&gt;Prof. Katarzyna Jarmolowicz-Szulc</td>
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<td>4838</td>
<td>The thermometric data of the high-temperature vein quartz from Wądroże Wielkie area (Fore-Sudetic Block, Poland)&lt;br&gt;&lt;br&gt;Dr. Krystyna Wolkowicz</td>
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<td>16:00</td>
<td># 4669</td>
<td>Fluid Evolution of the Zhunuo Porphyry Cu(-Mo-Au) System in Gangdese tract in Tibet, China: A Fluid Inclusion Investigation Ms. Dai Jie</td>
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<td>16:15</td>
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<td>Fluid inclusion characteristics of porphyry Mo systems in two contrasting tectonic environments: Insights from Shapinggou and Zhihlingtou deposits in South China Prof. Pei Ni</td>
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<td>The mechanism of metal precipitation in the Daining giant ore cluster, South China: evidence from fluid inclusions Dr. Guo-Guang Wang</td>
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<td>The fluid evolution in shear hosted Cu-Au mineralisation at Thanewasna, Central India: Constraints from fluid inclusion and stable isotope study Dr. Muduru lachhana Dora</td>
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<td>Fluid inclusion characteristics of Agargaon Tungsten deposits in the Sakoli fold belt, Nagpur District, Maharashtra, India Dr. Girish Kumar Mayachar</td>
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<td># 339</td>
<td>Petrogenesis and fluid inclusion study of Bismuth mineralization from Betul Belt, India Dr. Thankappan Pradeepkumar</td>
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<td># 4987</td>
<td>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 Dr. Daniel Dunkley</td>
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<td>Tectonic overpressure as an alternative driving force of high-P assemblages within the Cambrian high-grade orogens of East Antarctica Dr. Evgenii Mikhalskii</td>
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<td>Destruction of the Mozambique Ocean: evidence from the Schirmacher Oasis, East Antarctica for accretion as a precursor to Gondwana assembly Dr. Ravikant Vadlamani</td>
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<td>The continuation of the Arabian-Nubian Shield and the Mozambique Belt into East Antarctica: Implications of Gondwana Assembly Dr. Steven Boger</td>
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<td># 5192</td>
<td>Crustal thickening during amalgamation of East and West Gondwana: A case study from the Hafafit Complex, Egypt Dr. Tamer Abu-Alam</td>
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<td>Tectonothermal evolution of Southeastern Nigerian basement complex Prof. Barth Ekwueme</td>
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<td># 985</td>
<td>Full Plate Topological Reconstruction of Gondwana Amalgamation Prof. Alan Collins (KEYNOTE SPEAKER)</td>
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<td># 4621</td>
<td>Metamorphic and structural evidence in the Arabian-Nubian Shield for mid-crustal sub-horizontal channel flow during Pan-African exhumation Dr. Tamer Abu-Alam</td>
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<td>Tectono-thermal Reworking of the SE Archean Kaapvaal Craton during Gondwana Assembly: Evidence from Dronning Maud Land, Antarctica Dr. Eugene Grosch</td>
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<td>Hot orogens and supercontinent amalgamation: a Gondwanan example from southern India Dr. Chris Clark</td>
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<td># 263</td>
<td>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 Ghats Mobile Belt, South India Mr. Debapriya Adhikary</td>
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<td># 1363</td>
<td>Mesozoic metamorphism and its tectonic implication along the Solonker suture zone in central Inner Mongolia, China Mr. Jinrui Zhang</td>
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| 14:00 | # 5636  | The Gulf of Maine: A Rocky, Paraglacial Shelf  
Dr. Joseph Kelley (KEYNOTE SPEAKER) |
| 14:30 | # 3839  | Shelf-edge sand bodies in the western Mediterranean: relict deltas reworked by modern processes  
Prof. Serge Berné |
| 14:45 | # 3141  | Bedform distribution and sediment pathways on a high-energy, mixed wave- and tide-influenced shelf, north Coast, Northern Ireland  
Prof. Andrew Cooper |
| 15:00 | # 4527  | Seismic, geochemical and sedimentological characteristics of storm deposits from the Durban continental shelf, South Africa  
Ms. Shannon Dixon |
| 15:15 | # 1050  | The Tsitsikamma coastal shelf, Agulhas Bank, South Africa: example of an isolated Holocene sediment trap  
Dr. Burghard Flemming |

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| 16:00 | # 3620  | The role of shelf morphology and antecedent setting in the preservation of submerged shoreline sequences  
Prof. Andrew Green |
| 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  
Prof. Jan Harff |
| 16:30 | # 3453  | Submerged beach ridges in Mecklenburg Bay (SW Baltic Sea) indicate Late Pleistocene and Holocene shore lines  
Mr. Christoph Heinrich |
| 16:45 | # 4537  | Sequence Stratigraphy of the Durban Basin, South Africa  
Mr. Nigel Hicks |
| 17:00 | # 2130  | Morphology and Stratigraphy of the Central California Shelf - Results from the California Seafloor and Coastal Mapping Program  
Dr. Samuel Johnson |
| 17:15 | # 5477  | Seismic Stratigraphy of the Saldanha Bay and Langebaan Lagoon areas  
Mr. Vamumusa Khumalo |

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| 14:00 | # 4203  | The Nothal Jurassic record as preserved in sequences of Zealandia  
Dr. Hamish Campbell (KEYNOTE SPEAKER) |
| 14:30 | # 5281  | Changes in carbon dioxide concentrations across the Cretaceous-Paleogene boundary revealed by first Southern Hemisphere (New Zealand) stomatal proxy-based pCO2 reconstruction  
Prof. Vivi Vajda |
| 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  
Mr. Sean Kinney |
| 15:00 | # 492   | 40Ar/39Ar age for the fossil-bearing Tiaojishan Formation in NE China  
Dr. Su-Chin Chang |
| 15:15 | # 3459  | Using the isotopic content of fossil remains as evidence of paleoenvironmental condition of the late Jurassic West Gondwana  
Dr. Paulo Roberto Souto |

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| 16:00 | # 1503  | The Geology and Palaeontology of Tanzania  
Dr. Emma Msaky (KEYNOTE SPEAKER) |
| 16:30 | # 4498  | Astronomical constraints on the duration of the early jurassic pliensbachian and toarcian stages and global carbon-cycle and climatic perturbations  
Dr. Micha Ruhl |
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| 16:45  | # 4790  | Lacustrine expansion and carbon drawdown during the early Toarcian Oceanic Anoxic Event  
Dr. Stephen P. Hesselbo                                        |
| 17:00  | # 4781  | Low-latitude terrestrial climate cooling event in the Late Triassic (Norian-Rhaetian): palaeobotanical evidence from the Sichuan Basin, southern China  
Prof. Yongdong Wong                                                      |
| 17:15  | # 2789  | Temporal and spatial distribution pattern of the marine-brackish-water bivalve Waagenoperna in China and its implications for Triassic-Jurassic transition climate and palaeogeography  
Prof. Jingeng Sha                                                    |
| 17:30  | # 3861  | Jurassic reef events in Moroccan Atlasic domain (Middle Atlas and Central High Atlas in particular)  
Dr. Driss Sadki                                      |

### Monday - Session 1

**T47.1 - Anthropocene: Utility and Definition**  
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| 14:00  | # 3966  | The Anthropocene: overview of stratigraphical assessment to date  
Dr. Colin Waters (KEYNOTE SPEAKER)                                        |
| 14:30  | # 2914  | Assessing Global Boundary Stratotype Section and Point (GSSP) candidates for the Anthropocene  
Dr. Colin Waters                                     |
| 14:45  | # 2491  | The mistaken drive to define the ‘Anthropocene’ as an officially recognized unit of the Geologic Time Scale  
Dr. Stanley Finney                                   |
| 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  
Prof. Roger Smith (KEYNOTE SPEAKER)                   |

### Monday - Session 2

**T47.2 - Stratigraphy, Sedimentology, and Palaeontology of the Permian–Triassic Boundary Interval, Karoo Basin, South Africa**  
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| 16:00  | # 2085  | The end-Permian mass extinction and the plants – how much of it is taphonomical bias?  
Dr. Evelyn Kustatscher                                           |
| 16:15  | # 3684  | Red Green: Geochemistry of colored siltstones from the Daptocephalus (Dicynodon) and Lystrosaurus Assemblage Zones at Old Lootsberg Pass and Bethulie, South Africa  
Prof. Robert Gastaldo                                      |
| 16:30  | # 2957  | Multi-Order Tectonic and Climatic Signals in Permian-Lower Triassic Terrestrial Sedimentary Successions in Bogda Mountains, NW China  
Dr. Wan Yang                                               |
| 16:45  | # 1179  | The Daptocephalus Assemblage Zone (Lopingian), South Africa: A proposed biostratigraphy based on a new compilation of stratigraphic ranges  
Ms. Pia Viglietti                                               |
| 17:00  | # 3812  | Variability in the Late Permian landscape of the upper Balfour Formation (Beaufort Group Strata, Karoo Basin, South Africa)  
Dr. Johann Neveling                                         |
| 17:15  | # 3704  | Paleomagnetic Data Bearing on the Thermal History of Upper Permian to Lower Triassic (?) Beaufort Group Strata, Karoo Basin, South Africa  
Prof. John Geissman                                       |
| 17:30  | # 5084  | Stratigraphy, U-Pb dating and structural control of post- Variscan volcanism in Sardinia and Southalpine  
Prof. Laura Gaggero                                           |

### Monday - Session 1

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

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| 14:00  | # 2446  | The new early Mars: implications for geodynamics, geology and climate  
Dr. David Baratoux (KEYNOTE SPEAKER)                                       |
| 14:30  | # 2389  | What are wrinkle ridges telling us about the sub-surface of Mars?  
Mrs. Veronique Ansan                                               |
| 14:45  | # 5002  | Processes producing rock fragments in a hyper-arid, frigid and windy environment, the interior of Gale Crater, Mars  
Dr. Bernard Hallet                                                  |
| 15:00  | # 1274  | Qaidam Basin, NE Tibetan Plateau: A new Mars analogue site  
Prof. Long Xiao                                                   |
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**T48.2 - Planetary Geoscience**  
Westin - Sir Francis Drake  

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| 16:00 | # 182   | Planetary and astrobiological significance of Canary Islands (Spain): review, state-of-the-art and future developments  
*Prof. Dr. Jesús Martinez-Frias* |
*Dr. Nicola McLaughlin* |
| 16:30 | # 2886  | Asteroid 4Vesta’s surface composition and geology  
*Dr. Katrin Stephan* |
| 16:45 | # 2713  | Impact crater frequencies on planetary surfaces as a stratigraphic tool: application to Jupiter’s largest satellite Ganymede  
*Dr. Roland Wagner* |
| 17:00 | # 2721  | Differentiation models of Ceres: Delayed water separation and thick crust  
*Dr. Wladimir O. Neumann* |
| 17:15 | # 180   | The Anthropic Metallogenetic Principle  
*Prof. Morris Viljoen* |

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**T1.P1 - Geoheritage and Conservation**  
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| # PB01  | An Academic heritage for Geoscientists: Example of Kachchh Rift Basin: Western India  
*Mr. Gaurav Chauhan* |
| # PB02  | UNESCO Cultural heritage Vs. Natural hazards at European scale. The PROTHEGO project  
*Dr. Daniele Spizzichino* |

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**T3.P1 - Public Sector Geoscience and Geological Surveys**  
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| # PB03  | Remote sensing and geoscientific mapping training within the framework of the PanAfGeo project  
*Dr. Petr Mixa* |

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**T5.P1 - Groundwater and Hydrogeology**  
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| # PB04  | Hydrogeochemistry of Ukraine’s groundwater system and its impact on public health  
*Prof. Georgii Rudko* |
| # PB05  | Groundwater contamination caused by industrial waste in Waluj MIDC Area, dist. Aurangabad (M.S)  
*Prof. Ashok Tejankar* |
| # PB06  | Groundwater Potential Zoning in Turkana County, Kenya—A lithological and Structural geology approach  
*Mr. Edward Kipkoech* |
| # PB07  | Investigation potential karstic water resources in shahroud ,Iran Using Combined Fuzzy-AHP, AHP Methods  
*Dr. Razieh Akbari Jonosh* |

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**T6.P1 - Soil Science**  
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| # PB08  | Development of Chernozem – Luvisol toposequence in the North-east Namibia  
*Dr. Vit Penizek* |
| # PB09  | Estimation of Volumetric Oil Content in Unsaturated Soils using Thermo-TDR Techniques  
*Mr. Shinsuke Aoki* |
| # 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  
*Mr. Matheus Grecco* |
| # PB11  | Prairie Mound Morphology and Age in the Arkansas River Valley, south-central United States  
*Dr. Brad Lee* |
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| # PB12 | Preliminary results of a geoelectrical survey in a vineyard in Estremoz, Portugal  
*Prof. Antonio Correia* |
| # PB13 | Forensic Geophysics: ground penetrating radar application in archaeological research in Tekoha Jevy village, Parana, Brazil  
*Mr. Fábio Salvador* |
| # PB14 | Comparison of ginseng planting field soil to solve a murder case  
*Ms. Hongling Guo* |

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

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

#### Monday - Posters
#### T15.P2 - Engineering Geology and Geomechanics

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| # PB32 | Pozzolanic reactions of calcined clays: study to an improved utilization  
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| # PB33 | Investigation of CO2-rock-wellbore cement interaction – experimental study  
*Dr. Krzysztof Labus* |
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**Monday - Posters**

**T17.P1 - Mineral Exploration Exhibition**

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<td>Tips and tricks to know about porphyry copper deposits in Kerman copper-bearing belt</td>
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<td>Metallgeny of Toroud – Chahshirin Mountains and various mineralization types</td>
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<td>Follow-up soil survey to evaluate regional Pb and Zn soil anomalies in Nylostroom, Limpopo Province, South Africa</td>
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<td>The Alteration Index as a guide to base metal sulphide mineralization in the Xixano Complex, Northern Mozambique</td>
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<td>Stream sediment geochemistry of Nallamalai sub-basin, Dornala – Cumbum areas, South India - a tool for mineral exploration</td>
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**Monday - Posters**

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

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<td>Metallogenic Types and Spatial-temporal Features of Uranium Deposits in South China</td>
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<td>Metallogeny and economic potential of Mo mineralization in the Erzgebirge-Krušné hory (Saxony/Bohemia), central Europe</td>
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<td>New mineralogical and fluid inclusion data from Sb-mineralization in the Sb-Ag mining district Schleiz, eastern Thuringia, Germany</td>
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<td>#PB57</td>
<td>Metallogeny of the Sn-polymetallic / Ag ore fields Pobershau and Rittersberg (Marienberg district), central Erzgebirge, Germany</td>
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<td>Prof. Thomas Seifert</td>
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Mineralization styles related to a hidden late-Variscan granite intrusion: the district of Oelsnitz (Vogtland Synclinorium, Germany)
Prof. Thomas Seifert

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
St. Hongqiang Wang

Base metal mineral-bearing shear zone at Tandilia System, Precambrian Basement of Eastern Argentina
Dr. Raúl Ernesto De Barrio

Epithermal gold and porphyry copper mineralization in the Zamboanga Mineral District, Mindanao, Philippines
Dr. Jillian Aira Gabo-Ratio

Preliminary study of the copper mineralization in the Sabe Taung Area, Central Myanmar
Mr. Akihiro Goda

The Combination of Carboniferous Volcanic Reservoir Spaces and Hydrocarbon Storage Modes
Prof. Yang Shaochun

An investigation of key seismic attribute analysis of the Whitehill Formation in the Karoo Basin
Mrs. Wahiebah Hoosain Daniels

Evaluation of Seismic Reflection in the Kalahari Karoo Basin, Botswana
Mr. Onkgopotse Ntibinyane

Health safety and environmental aspect in petroleum in Africa
Mr. Benjamin Kering

Gas and Petroleum Operating necessity of Virunga Park and Lake Kivu / DRC face of the imperatives of protection Environnement, Biodiversity and Development
Mr. Kiro Kubuya

Impact of the Oil Exploitation on the Abertine Block: Case of the Virunga National Park at the East of DR Congo
Mr. Bora Uzima Bahavu

Petroleum System: from Conventional to Unconventional
Prof. Jingzhou Zhao

Petroleum system modelling of the eastern Barents Sea basin
Dr. Petr Sobolev

Formation and evolution of Weiyuan-Anyue extension-erosion groove in Sinian system, Sichuan Basin
Ms. Ying Li

China Oil and Gas Exploration & Development Current Situation and Trend
Dr. Hong Wang

Ceramic paste Formulation for the production of Traditional Pottery from Sub-Products of the Extractive Industry of Marbles - Alentejo, Portugal
Prof. Luis Lopes

Technogenic raw material in enrichment plant of Zhezkazgan
Prof. Adilkhan Baibatsha
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# PB79 The application of magnetic amplitude inversion for structure interpretation in South China Sea
Dr. Shuling Li

# PB80 Anisotropy of Magnetic Susceptibility, Palaeomagnetism and Rock magnetic studies on mafic intrusives from Kaddam Fault: Implications to Godavari rift related magmatism
Dr. Dhananjay Meshram

# PB81 Magmatic segments abandoned during continental breakup – insights into the formation of seaward dipping reflectors
Mr. James Norcliffe

# PB82 Cenozoic tectonic jumping in the Western Pacific Continental Margin
Dr. Yanhui Suo

# PB83 A tectonostratigraphic comparison of the eastern and western parts of the Gamtoos Basin, South Africa
Ms. Chantell Van Bloemenstein

Monday - Posters T34.P1 - Geochronology
Exhibition 17:45–19:00

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# 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
Prof. Njonfang Emmanuel

# PB85 Closure of the Rheic Ocean and post-orogenic uplift of the Western Tatra Mountains Western Carpathians (Poland/Slovakia)
Dr. hab. Aleksandra Gaweda

# PB86 The geochemistry and geochronology of the Barby Formation, Southern Namibia
Ms. Theresa Malobela

# PB87 Revision of the Cambrian part of Russian general stratigraphic time scale and its correlation with the international geological time scale
Dr. Konstantin Pak

# PB88 Dating of altered mafic intrusions by applying a zircon fission track thermochronometer to baked country rock
Dr. Hiroyuki Hoshi

# PB89 Strategies towards statistically robust interpretations of in situ U–Pb zircon geochronology
Dr. Christopher Spencer

# PB90 A review of the geochronology of the Margate Terrane of the Natal Metamorphic belt
Prof. Peter Mendonidis

# PB91 U-Pb SIMS SHRIMP-II titanite age and time-range of apatite-titanite mineralization of Lovozero and Khibiny agpaitic massifs
Dr. Oleg Petrov

Monday - Posters T36.P1 - Magmatism - Settings, Compositions and Processes
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# PB92 Petrological constrains on the coarse-grained, high-Mg basaltic enclaves of Capo Marargiu (Sardinia, Italy)
Mr. Vanni Tecchiato

# PB93 Mafic rocks along the Kasai River (DRC/Angola)
Mr. Wean Welgemooed

# 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
Dr. Lorenzo Milani

# PB95 Geochemistry of the Bitungulu lava flow of the January 17, 2002 Nyiragongo volcano eruption (Virunga, East-African rift)
Mr. K. Ephrem Kamate

# PB96 Occurrence of Rapakivi Granite around Tarai, Kano state, Northwestern Nigeria: A Preliminary Report
Mr. Abdulgafar Amuda

# PB97 Permian-Jurassic rift-related alkaline magmatism of the Eastern Mountains, Central Andes Bolivia
Dr. Ramiro Motos

# PB98 Chalcopyhile 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
Mrs. Xiaoqi Zhang

# PB99 Paleoproterozoic Monchetchandra massif (Fennoscanian shield): geological relationships and geochemical features of rocks
Ms. Elena Borisenko

# PB100 A petrographic, geochemical and geochronological study of mafic sills within the Transvaal Supergroup, east of the Bushveld Igneous Complex
Ms. Thendo Netshidzivhe

# PB101 Crystallization and initial mush porosity of poikilitic anorthosites in the Bushveld Complex
Dr. Ben Hayes

# PB102 Spatio-chemical analysis of dykes in the Etendeka Large Igneous Province, Namibia: Insights into the magmatic processes associated with continental break-up
Dr. Trishya Owen-Smith
### Monday - Posters
#### T38.P1 - Metamorphic Processes
*Exhibition* 17:45–19:00

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| #PB104  | Role of the Aswa Shear Zone, Uganda, in the Neoproterozoic East African Orogen  
*Dr. Kerstin Saalmann* |
| #PB105  | Dronning Maud Land, the southern extension of Gondwana Supercontinent: Incomplete vision  
*Dr. Tamer Abu-Alam* |
| #PB106  | Tectonic setting and provenance of the Capané Antiform, Porongos Complex, Dom Feliciano Belt, Brazil: Evidence from U-Pb ages  
*Ms. Daianne Francis Silva Da Silveira* |

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

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*Dr. Francisco José Lobo* |
| #PB113  | Morphology and seismic facies of a sedimentary wedge off São Sebastião Island, São Paulo Bight, southwest Atlantic Ocean  
*Dr. Francisco José Lobo* |
| #PB114  | The marine geology of the 1 nautical mile exclusive zone around Robben Island, South Africa  
*Mr. Michael Machutchon* |
| #PB115  | Occurrence, characteristics and formation mechanisms of methane generated micro-pockmarks in Dunmanus Bay, SW Ireland  
*X Montes* |
| #PB116  | Characterization of Holocene NE Atlantic climatic variations using the cold-water coral Lophelia pertusa  
*X Montes* |
| #PB117  | Seabed mapping of a deep-water basin; towards completing a broad-scale seabed substrate map of Ireland’s offshore  
*X Montes* |
| #PB118  | Cenozoic Calcareous Nannofossil Biostratigraphy and Paleoenvironmental study of the Izu Bonin, western Pacific Ocean  
*Ms. Santi Dwi Pratiwi* |
| #PB119  | Sea of Marmara as the Passage Way between the Black Sea and the Aegean Sea  
*Mr. Recai Sergin* |

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| #PB121  | Dwarfism of irregular echinoids from Poland during the Campanian-Maastrichtian Boundary Event (CMBE)  
*Ms. Katarzyna Leśko / Dr. Mariusz Salamon* |
| #PB122  | First Report of Trace Fossils from Lower Odania Member of Lathi Formation of Jaisalmer Basin, Akal area, district -Jaisalmer, Western Rajasthan, India  
*Dr. Virendra Singh Parihar* |
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*Dr. Suresh Chandra Mathur* |
| # PB124 | Juvenile Kosoidea sp. from Lower Paleozoic strata, Paraná Basin, Brazil  
*Dr. Carolina Zabini* |
| # PB125 | Towards a better understanding of the origins of microlens arrays in Mesozoic echinoderms  
*Dr. Przemyslaw Gorzelak* |
| # PB126 | Dwarfism of irregular echinoids from Poland during the Campanian-Maastrichtian Boundary Event (CMBE)  
*Ms. Katarzyna Lesko* |
| # PB127 | Fossil woods from the Cretaceous deposits of Russian Far East  
*Dr. Maxim Afonin* |
| # PB128 | Changes in rodents associations from cave sediments (Romania) during the Upper Pleistocene main climatic events  
*Dr. Alexandru Petculescu* |
| # PB129 | Taxonomy of Cypridea Bosquet 1852 (Crustacea, Ostracoda) from Quiricó Formation, Lower Cretaceous from São Francisco basin, State of Minas Gerais, Brazil: new relative dating and remarks on noding  
*Ms. Amanda Moreira Leite* |
| # PB130 | The Microvertebrate fauna from the Palaeocene – Eocene of Akl Formation of Barmer Basin, Western Rajasthan, India  
*Dr. Shanker Lal Nama* |
| # PB131 | Role of temperature in brachiopod migration? Evidence from the Jurassic sediments of western India  
*Dr. Debahuti Mukherjee* |
| # PB132 | On Damonella ultima from the Santana Formation (Upper Aptian, Lower Cretaceous), Araripe basin, Northeastern Brazil  
*Dr. Lucas Antonietto* |
| # PB133 | Turritelline dominated assemblages from the Miocene of Kutch, western India reveal depositional histories and the nursery ground of the species  
*Dr. Kalyan Halder* |
| # PB134 | Middle Ordovician La Cristalina Formation: After 50 years new fossil localities were found, including the first Ordovician foraminifera in Colombia  
*Ms. Maria Fernanda Almanza Melendez* |
| # PB135 | Corals of Narara Bet, Jamnagar District, Gujarat and its implication in Sea level Changes  
*Dr. Arpita Pankaj* |
| # PB136 | New findings of galeaspids (Agnatha) from the Siluro-Devonian of China  
*Dr. Zhikun Gai / Dr. Yuhai Liu / Dr. Min Zhu* |
| # PB137 | Hexactinellid sponge Amphispongia from Pennsylvanian of United States of America  
*Msc. Lucas Mouro* |
| # PB138 | First report on Trace Fossils from flysch sediments of Nagaland, Northeast India and their Significance  
*Dr. Hemanta Singh Rajkumar* |
| # PB139 | Carbon isotope in tooth enamel of Pleistocene megamammals from Alagoas and Pernambuco, northeastern Brazil  
*Dr. Alcides Sial* |
| # PB140 | Advance in Cretaceous bennettitalean trunk from China  
*Dr. Yeming Cheng* |

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**T48.P1 - Planetary Sciences and Meteorite Impacts**  
**Exhibition**  
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<td>18:00 - 18:05</td>
<td><strong>TECTONIC EVOLUTION OF AFRICA - SCOTENSE ANIMATION</strong></td>
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<td>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/9OFyI2hsQ3k">http://youtu.be/9OFyI2hsQ3k</a>)</td>
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<tr>
<td>18:05 - 18:10</td>
<td><strong>SOUTH AFRICA'S BUSHVELD COMPLEX</strong></td>
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<td>The Bushveld Complex in South Africa is the largest repository of platinum group elements in the world. Covering 65,000 km² 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.</td>
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<tr>
<td>18:10 - 18:30</td>
<td><strong>CENTRAL RAND GOLDFIELDS</strong></td>
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<td>The Central Rand Goldfield in the Witwatersrand Basin was exploited between 1886 and the early 1070s 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.</td>
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<tr>
<td>18:30 - 18:35</td>
<td><strong>DOWN A MINE – A LONG JOURNEY UNDERGROUND</strong></td>
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<td>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!</td>
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<tr>
<td>18:35 - 19:00</td>
<td><strong>RESCUE AT KLOOF GOLD MINE</strong></td>
<td>0:25</td>
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<td>Before “The 33”, there was “The 150”. 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.</td>
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<tr>
<td>19:00 - 19:06</td>
<td><strong>BARBERTON MAKHONJWA GEOTRAIL - INTRODUCTION</strong></td>
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<td>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.</td>
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<tr>
<td>19:06 - 19:12</td>
<td><strong>A GEOLOGICAL EXCURSION TO SOUTH AFRICA AND SWAZILAND</strong></td>
<td>0:06</td>
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<td></td>
<td>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.</td>
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</tr>
<tr>
<td>19:12 - 20:36</td>
<td><strong>SPECIAL PRE-RELEASE SCREENING: THIS IS OUR AFRICA – THIS IS US: GOLDEN GATE NATIONAL PARK</strong></td>
<td>1:24</td>
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<td></td>
<td>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 &amp; 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.</td>
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SOCIAL PROGRAMME

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

AGU HOT TOPIC LOUNGE SCHEDULE

**MONDAY**

<table>
<thead>
<tr>
<th>TIME</th>
<th>FUNCTION</th>
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</thead>
<tbody>
<tr>
<td>13:20 - 13:40</td>
<td>The Peer Review Process and Tips to Improve Your Manuscript</td>
</tr>
<tr>
<td>13:40 - 14:00</td>
<td>How to Become a Reviewer and Review a Manuscript Effectively</td>
</tr>
<tr>
<td>15:40 - 16:00</td>
<td>How to Write an Abstract</td>
</tr>
<tr>
<td>17:45 - 18:15</td>
<td>Hot Topic Discussion: Planetary Sciences in Africa</td>
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**WEDNESDAY**

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

<table>
<thead>
<tr>
<th>TIME</th>
<th>FUNCTION</th>
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<tbody>
<tr>
<td>07:45 - 08:15</td>
<td>About AGU</td>
</tr>
<tr>
<td>10:00 - 10:20</td>
<td>The Peer Review Process and Tips to Improve Your Manuscript</td>
</tr>
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**TUESDAY**

<table>
<thead>
<tr>
<th>TIME</th>
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<tbody>
<tr>
<td>07:45 - 08:15</td>
<td>About AGU</td>
</tr>
<tr>
<td>10:00 - 10:20</td>
<td>Meet AGU Editors from JGR: Planets and Tectonics</td>
</tr>
<tr>
<td>13:20 - 14:00</td>
<td>Hot Topic Discussion: Resourcing Future Generations</td>
</tr>
<tr>
<td>15:40 - 16:00</td>
<td>Data Management/Reproducibility</td>
</tr>
<tr>
<td>17:40 - 18:00</td>
<td>Publication and Scientific Ethics</td>
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**THURSDAY**

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