

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

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



## WEDNESDAY PROGRAMME

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# Wednesday 31 August

## Wednesday - Plenary Session Plenary Session 5 Auditorium 1

12:15–12:45

TIME	PAPER #	PAPER TITLE & AUTHOR
12:15	# 5588	Geological cycles and the generation of the Continental Crust <i>Dr. Chris Hawkesworth (PLENARY SPEAKER)</i>

## Wednesday - Plenary Session Plenary Session 6 Auditorium 1

12:45–13:15

TIME	PAPER #	PAPER TITLE & AUTHOR
12:45	# 5589	Palaeobiological insights from fossil bones <i>Prof. Anusuya Chinsamy-Turan (PLENARY SPEAKER)</i>

## Wednesday - Session 7 T1.7 - Heritage, conservation and management / Geoheritage and Geoparks MR 1.62

08:00–10:00

TIME	PAPER #	PAPER TITLE & AUTHOR
08:00	# 5234	The world's first platinum underground mine in the Limpopo Province, South Africa <i>Prof. Marian Tredoux</i>
08:15	# 3877	From natural to cultural heritage – conserving moveable geological heritage <i>Dr. Kevin Page</i>
08:30	# 4004	Global Geoparks Network: a global partnership on geo-conservation and sustainable development <i>Dr. Nikolaos Zouros</i>
08:45	# 4296	Geological Features of Global Geoparks in China <i>Mr. Yuanyuan Zheng</i>
09:00	# 3665	Unesco Global Geoparks <i>Prof. Patrick Mc Keever</i>
09:15	# 4383	Landscape assessment for Penghu Geopark, Taiwan <i>Dr. J. C. Lin</i>
09:30	# 5265	Geoparks in the Nepal Himalaya <i>Dr. Ranjan Kumar Dahal</i>
09:45	# 3405	Geology in cities <i>Prof. Patrick De Wever</i>

## Wednesday - Session 8 T1.8 - Heritage, conservation and management MR 1.62

10:30–12:00

TIME	PAPER #	PAPER TITLE & AUTHOR
10:30	# 3872	Managing geodiversity for biodiversity – and vice versa - strategic approaches from the UK <i>Dr. Kevin Page</i>
10:45	# 1803	Geoconservation and sustainable development through Geotourism for the Kanchanaburi Region, Thailand <i>Dr. Dhiti Tulyatid</i>
11:00	# 2065	Challenges and Strategies for Geoconservation of Geosites in Madagascar <i>Dr. Lala Andrianaivo</i>
11:15	# 2986	The Challenge of Protecting South Africa's Geoheritage – The Barberton Greenstone Belt (BGB) <i>Mr. Tony Ferrar</i>
11:30	# 2100	State of knowledge of young Malagasy people on the Madagascar geoheritage <i>Dr. Hasina Nirina Randrianaly</i>
11:45	# 712	The Johannesburg Geological Museum: An Underappreciated National Geoheritage Asset <i>Prof. Bruce Cairncross</i>

## Wednesday - Session 8 T2.8 - Geoscience Education at school level MR 1.64

10:30–12:00

TIME	PAPER #	PAPER TITLE & AUTHOR
10:30	# 897	Launch of the 'Sand on a sill' international collaborative research project <i>Prof. Chris King</i>
11:00	# 3909	'Sand on a sill' – International collaborative research project: An Australian perspective <i>Dr. Bronte Nicholls</i>
11:15	# 5553	Promoting Earth sciences teaching-learning in the Italian schools: a research of learning objects, effective educational approaches, to improve skills and competences <i>Dr. Susanna Occhipinti</i>
11:30	# 5021	Small gesture, big effect! Investigation of the role of gestures in teaching plate tectonics through an eye tracking experiment! <i>Dr. Dominik Conrad</i>
11:45	# 3528	Understanding the Process of Co-Constructive Learning with Scientific Modeling in Geological Field Trip. <i>Jr. Yoon-Sung Choi</i>



**Wednesday - Session 9**  
**T2.9 - Geoscience Education at school level**  
**MR 1.64**

14:00–15:30

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 4141	How did the earthquake-related content of Rika textbooks change after the 2011 Tohoku-oki earthquake? <i>Dr. Hiroo Nemoto</i>
14:15	# 891	Earth learning idea: a global web-based resource of geoscience teaching ideas - an analysis <i>Prof. Chris King</i>
14:30	# 3544	ICT in Geoscience education from International Geoscience School SYLLABUS <i>Dr. Rosely Imbernon</i>
14:45	# 3317	Application of geo-education methods on Egyptian elementary school students <i>Dr. Kholoud Abdel Maksoud</i>
15:00	# 2912	Curriculum reform can make a difference. The case of the introduction of palaeontology and evolution into the South African School Curriculum <i>Dr. Ian McKay</i>
15:15	# 5194	Geo-Education made easy through debating <i>Mrs. Helke Mocke</i>

**Wednesday - Session 10**  
**T2.10 - Educational Seismology in Secondary Schools / Field-Based Geoscience Education: A YES Network Comparison / Geoscience Education in Africa: Challenges & Perspectives**  
**Geoscience Education at school level / Geoscience Education: technology & training the next generation of geoscientists**  
**MR 1.64**

16:00–17:45

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 4315	Training field mapping geologists; the Council for Geoscience (CGS) Field School experience <i>Mr. Nick Baglow</i>
16:15	# 4896	Ten years experience of International Earth Science Olympiad: what is the worldwide impact on Earth Science Education? <i>Dr. Celso Dal Ré Carneiro</i>
16:30	# 2748	Earthquake models used in class: What about their weaknesses? <i>Dr. Jose Selles-Martinez</i>
16:45	# 4065	Desktop Toys for Educational Seismology -Random or Periodic? Before or After?- <i>Mr. Yoshio Okamoto</i>
17:15	# 2780	Location and Visualization—the Keys to Geological Education and Research <i>Dr. Callan Bentley</i>
17:00	# 3835	Keeping geosciences curricula at the tertiary level relevant - a South African example, School of Geosciences, University of the Witwatersrand <i>Prof. Gillian Drennan</i>

**Wednesday - Session 7**  
**T3.7 - Regional Geological Mapping**  
**MR 1.63**

08:00–10:00

TIME	PAPER #	PAPER TITLE & AUTHOR
08:00	# 5048	Scientific Collaborative Partnership between the Geological Survey of Namibia and the Rio de Janeiro State University: Government and Academia Working Together for Scientific and Social Development <i>Dr. Julio Almeida</i>
08:15	# 1016	The Mgazini sheet in S Tanzania: the extent of the Ubendian, Irumide and Mozambique orogenic belts <i>Dr. Gerrit de Kock</i>
08:30	# 1150	PRB 3D geological map modeling technology <i>Dr. Li Chaoling</i>
08:45	# 5583	Paleoproterozoic Magmatic Arc in SW of Angola (Congo Craton SW border): petrochemical evidences and geochronological data <i>José Feliciano Rodrigues</i>
09:00	# 1952	A 3D Geological Model of the North German Basin <i>Dr. Christian Mueller</i>
09:15	# 4759	The lithostratigraphy and structural components of the Eureka Shear Zone, southern Namibia <i>Mr. Moses Angombe</i>
09:30	# 3119	An Application of Audiomagnetotelluric Method to 3D Geological Mapping in Southern China, Jiurui Regional <i>Dr. Lei Da</i>
09:45	# 3862	The "Référentiel Géologique de la France": from the Vosges-Fossé Rhénan demonstrator to the Pyrénées application site <i>Dr. Herve Theveniaut</i>
10:00	# 3676	First 3D modelling of the sub-surface of east-central Namibia using combining geophysics with distal geological data <i>Mr. John-Paul Mubita</i>

**Wednesday - Session 8**  
**T3.8 - Geoscience for environmental management**  
**MR 1.63**

10:30–12:00

TIME	PAPER #	PAPER TITLE & AUTHOR
10:30	# 3999	Geological mapping in the USA <i>Prof. Harvey Thorleifson</i>





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10:45	# 829	Separating natural from anthropogenic trace element patterns in soils of Lefkosa (Nicosia), Cyprus <b>Prof. David Cohen</b>
11:00	# 3013	Geochemical mapping of soil and water around abandoned mines in Kadoma, Zimbabwe <b>Ms. Daina Mudimbu</b>
11:15	# 4600	The potential of geological surveys in geoconservation <b>Dr. Enrique Díaz-Martínez</b>
11:30	# 1573	Pollution Potential Mechanisms of Urban Aquifers of Greater Bangalore using Remote Sensing Techniques -A case study , Karnataka, South India <b>Dr. Hanumanahally Kambadarangappa Ramaraju</b>

## Wednesday - Session 9 T3.9 -Public Sector Geoscience and Geological Surveys MR 1.63 14:00–15:30

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 5554	OneGeology - Access to geoscience for all – Focus on Africa <b>Dr. Marko Komac (KEYNOTE SPEAKER)</b>
14:30	# 813	Realisation of Sustainable Development Goals (SDGs) in geoscientific projects <b>Mrs. Franca Schwarz</b>
14:45	# 2539	Understanding the International Pool of Recent Geoscience Graduates <b>Ms. Carolyn Wilson</b>
15:00	# 3875	Geoscience job creation via the “positive disruption” of a business cluster. <b>Mr. Koen Verbruggen</b>

## Wednesday - Session 10 T3.10 - Public Sector Geoscience and Geological Surveys MR 1.63 16:00–17:45

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 4819	Being better informed for a better quality of life in Africa and Europe – building bridge through PanAfGeo <b>Mrs. Claudia Delfini</b>
16:15	# 4766	More than 40 years efforts of the State Geological Institute of Dionýz Štúr in the production of regional geological maps of Slovakia <b>Mr. Branislav Zec</b>
16:30	# 5571	Geological mapping and capacity building in Africa <b>Felix Toteu (KEYNOTE SPEAKER)</b>

## Wednesday - Session 7 T4.7 - Palaeosols, palaeoweathering profiles and polygenetic soils indicators of climate change Hall 4B4 08:00–10:00

TIME	PAPER #	PAPER TITLE & AUTHOR
08:00	# 3691	Geochemistry of Himalayan Foreland Sediments using Soil Chemistry as proxy: Constrain on Provenance <b>Dr. Dhiraj Banerjee</b>
08:15	# 3816	Neogene Environments – Key to the Future? <b>Dr. Peter Smolka</b>
08:30	# 4370	Organic carbon isotope and molecular fossil records of vegetation evolution in central Loess Plateau since the late Quaternary <b>Dr. Bin Zhou</b>
08:45	# 4462	Collapse of the African Surface across the Congo Basin surges the strontium isotope budget of the Cenozoic Ocean <b>Dr. Bastien Linol</b>
09:00	# 4546	Carbon capture in man made strata <b>Prof. David Manning</b>
09:15	# 5290	Multi-proxies study of the Hanon paleo-maar sediment, Jeju Island, Korea: implications for paleoclimate variability over the last 35 kyrs <b>Dr. Sangmin Hyun</b>

## Wednesday - Session 8 T4.8 - Past Global Climate Change In The Himalaya and Future Implications Hall 4B4 10:30–12:00

TIME	PAPER #	PAPER TITLE & AUTHOR
10:30	# 432	Geomorphological evolution of Satluj valley in the climatic sensitive tract between Rampur and Luhree, Himachal Himalaya, India during Late Quaternary <b>Mr. S. A. I. Mujtaba</b>
10:45	# 441	Dating of moraines by lichenometry in Hamtah glacier valley, Lahual and Spiti district, Himachal Pradesh, India: Retreat of Himalayan glacier during Little Ice Age (LIA) <b>Mr. Abhinandan Srivastav</b>
11:00	# 842	Krol Carbonates of the Mussoorie Syncline, Lesser Himalaya, India with reference to Paleoclimate and Geotechnical Study of the Surbhi Landslide <b>Prof. Vinod Tewari</b>
11:15	# 843	Climate Change : Impact on Himalaya, Melting of Glaciers, Associated Natural Disasters and Mitigation <b>Prof. Vinod Tewari</b>



**Wednesday - Session 9**

**14:00–15:30**

**T4.9 - Past Global Climate Change In The Himalaya and Future Implications**  
**Hall 4B4**

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 845	Paleozoic Paleoclimate of the Himalaya and the Global Climate Change. <i>Prof. Vinod Tewari</i>
14:15	# 1540	Sedimentary and dendrochronological records of environmental change and rainfall variability, Southwest Madagascar <i>Mrs. Estelle Razanatsoa</i>
14:30	# 1542	Holocene glaciations in southern aspect of Central Himalaya: A case study of Dunagiri valley (Bangni glacier), Central Himalaya, India <i>Dr. Sarswati Prakash Sati</i>

**Wednesday - Session 10**

**16:00–17:45**

**T4.10 - Speleothem and Speleogenesis: Past Climate Change, Monsoon and Geomicrobiological Process**  
**Hall 4B4**

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 143	Significance of Speleothems in Paleoclimate change , Intensity of Tropical Monsoon , Inter Tropical Convergence Zone and Geomicrobiological process: Evidences from the Himalayan and Asian caves <i>Prof. Vinod Tewari</i>
16:15	# 437	Planktonic foraminifer record of a stronger Indian winter monsoon during the Last Glacial period in a deep sea core from the equatorial Indian Ocean <i>Mr. Subhradeep Das / Mr. Sanjeev Raghav</i>
16:30	# 464	Late Quaternary abrupt cooling events in the eastern Bay of Bengal and its bearing on Indian summer monsoon evolution <i>Mr. Sanjeev Raghav</i>
16:45	# 648	Subannual-to-biannual-resolved record of Indian Summer Monsoon intensity in the early Holocene recorded by a travertine at the eastern edge of Tibetan Plateau <i>Dr. Hailong Sun</i>
17:00	# 943	Paleoclimate Record from Speleothem : Carbon and Oxygen isotope variation in a stalagmite from the Sahastradhara cave, Uttarakhand Lesser Himalaya, India <i>Prof. Vinod Tewari</i>

**Wednesday - Session 7**

**08:00–10:00**

**T7.7 - Geoscience Data and Information Systems**  
**MR 2.44 - 2.46**

TIME	PAPER #	PAPER TITLE & AUTHOR
08:00	# 1708	Lumping geology units in drill holes for simplified 3D modelling <i>Dr. June Hill</i>
08:15	# 1709	A visual aid for interpreting and filtering down-hole gamma logs <i>Dr. June Hill</i>
08:30	# 4108	Research on Improvements of 3-D Geological Property Modelling Methods Based on Regular Grid <i>Prof. Mao Pan</i>
08:45	# 4302	Local Probability Density-based 3D Edge Detection Applied to an Electromagnetic Inversion of the Kevitsa Ni-Cu-PGE deposit, Finland <i>Mr. Tom Horrocks</i>
09:00	# 3660	Analysis of geological features with artificial neural networks – methodology and examples <i>Silke Noack</i>
09:15	# 327	Application and validation of artificial neural network model to groundwater productivity-potential mapping <i>Dr. Saro Lee</i>

**Wednesday - Session 8**

**10:30–12:00**

**T7.8 - Geoscience Spatial Data Infrastructures**  
**MR 2.44 - 2.46**

TIME	PAPER #	PAPER TITLE & AUTHOR
10:30	# 5300	From 2D maps to 3D modelling: much more than “just one more dimension” <i>Dr. Gabriel Courrioux</i>
10:45	# 3092	On the importance of the geological architecture in 3D modelling <i>Dr. Philippe Calcagno</i>
11:00	# 5261	Storing and delivering numerical geological models on demand for everyday Earth Sciences applications <i>Dr. Christelle Loiselet</i>
11:15	# 4729	Modeling the Dutch subsurface: From paper product towards dissemination of a 3D-digital model <i>Dr. Johan Ten Veen</i>
11:30	# 1691	From GeoMol to EGDI – towards the integration of regional 3D geological datasets into the European Geological Data Infrastructure <i>Dr. Gerold W. Diepolder</i>

**Wednesday - Session 9**

**14:00–15:30**

**T7.9 - Information Management - Interoperability and Standards**  
**MR 2.44 - 2.46**

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 737	GeoSciML version 4.0 - a coming of age <i>Ollie Raymond</i>



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14:15	# 1852	Geo3DML: a public 3D geological model data exchange format <b>Prof. Honggang Qu / Prof. Guangsheng Yan</b>
14:30	# 3517	EarthResourceML - the CGI-IUGS Data Standard to Deliver Mineral Resource Data <b>Dr. Jouni Vuollo</b>
14:45	# 1256	International standardisation of geoscience terminology via CGI-IUGS vocabularies <b>Dr. Mark Rattenbury</b>
15:00	# 3477	The use of GeoSciML harmonised layers in geological applications <b>Dr. Carlo Cipolloni</b>
15:15	# 1944	Submission and dissemination of geological data for the territory of the Russian Federation using the CGI standards to ensure international data exchange <b>Mr. Leonid Chesalov</b>

## Wednesday - Session 7

08:00–10:00

**T8.7 - Crustal deformation and seismotectonics in Africa: Active faulting and earthquake hazard assessment / Subaerial and submarine landslide processes and hazards**  
**Hall 4B2**

TIME	PAPER #	PAPER TITLE & AUTHOR
08:00	# 1511	Probabilistic Seismic Hazard Assessment of South Africa <b>Dr. Vunganai Midzi</b>
08:15	# 62	Seismic Hazard Analysis for Aswan High Dam Reservoir <b>Dr. Awad Ismail</b>
08:30	# 1414	Seismic ground motion and hazard assessment of the Greater Accra Metropolitan Area, Southeastern Ghana <b>Dr. Paulina Amponsah</b>
08:45	# 2413	Analysis of large-scale landslides triggered by the 2008 Wenchuan Earthquake <b>Dr. Xuanmei Fan</b>
09:00	# 490	Controlling factors for Landslide initiation in the seismo-tectonically active and high rainfall regions of North East India <b>Mr. Niroj Kumar Sarkar</b>
09:15	# 2627	Initiation mechanism of large landslides induced by 2008 China ms8.0 Earthquake <b>Prof. Xiaoyan Zhao</b>
09:30	# 5297	A Very Large Displacement Rockslide in the Three Gorges Reservoir Area, China <b>Dr. Zhang Yu / Prof. Guangli Xu / Dr. Weina Li / Dr. Shuang Feng / Xiaohan Ma</b>
09:45	# 2305	Failure mode and mechanisms of the Majiagou landslide in the Three Gorges reservoir, China <b>Prof. Xinli Hu</b>

## Wednesday - Session 8

10:30–12:00

**T8.8 - Crustal deformation and seismotectonics in Africa: Active faulting and earthquake hazard assessment / Subaerial and submarine landslide processes and hazards**  
**Hall 4B2**

TIME	PAPER #	PAPER TITLE & AUTHOR
10:30	# 306	Landslide Developmental Characteristics and Response to Climate Change since the Last Glacial in the upper reaches of the Yellow River, NE Tibetan Plateau <b>Dr. Yin Zhiqiang</b>
10:45	# 2392	Submarine landslides on the Great Barrier Reef margin, north-eastern Australia: Preliminary characterization of their morphology and behaviour <b>Dr. Ángel Puga-Bernabéu</b>
11:00	# 4312	Microzonation of Johannesburg: Impact of uncertainties Associated with earthquake catalogue on seismic hazard assessment <b>Ms. Thifhelimbilu Faith Mulabisana</b>
11:15	# 1856	Seismic Activity and lithospheric structure in NW of West African Craton: Case of the Moroccan Atlas Mountains <b>Dr. Youssef Timoulali</b>
11:30	# 4503	Geophysics of the Sirt Basin Rift System, Libya <b>Dr. Abdunnur BenSuleman</b>
11:45	# 319	The seismic landslide hazards mapping: a case study in the Yingxiu area, Sichuan, China <b>Dr. Hua Ge</b>

## Wednesday - Session 9

14:00–15:30

**T8.9 - Subaerial and submarine landslide processes and hazards**  
**Hall 4B2**

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 215	Landslide hazard zonation using rainfall threshold based temporal probability <b>Dr. Pankaj Jaiswal</b>
14:15	# 800	Landslide susceptibility mapping at regional scales using weight of evidence method – a revision of the methodical concept from a practical point of view <b>Dr. Michael Fuchs</b>
14:30	# 2998	Application of Fuzzy Set Theory to Landslide hazard zonation mapping in Limbe (Cameroon) <b>Dr. Lawrence Diko Makia</b>
14:45	# 3573	Landslides in Equatorial Africa: identifying culturally, technically and economically feasible resilience strategies <b>Dr. Olivier Dewitte</b>
15:00	# 36	Eruption of Mount Sinabung, North Sumatera, Indonesia, and SMS gateway for disaster early warning system <b>Prof. Sari Bahagiarti Kusumayudha</b>



15:15	# 35	Geohazards risk assessment for disaster management of Mount Merapi and surrounding area, Yogyakarta Special Region, Indonesia <i>Ms. Ayu Narwastu Ciptahening</i>
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### Wednesday - Session 10 T8.10 - Subaerial and submarine landslide processes and hazards Hall 4B2

16:00–17:45

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 4293	Apparent dryland salinity on the Australian uplands: causes, mechanisms, effects, mapping and management <i>Dr. Glen Bann</i>
16:15	# 5631	The Geological, Geomorphological and Geotechnical Setting of the Zungwini Rail Tunnel in Northern Kwa Zulu-Natal, Republic of South Africa <i>Mr. Oliver Barker</i>
16:30	# 5630	The Geotechnics of the Zungwini Tunnel, Northern Kwa Zulu-Natal Republic of South Africa And Regional Significance: Why did the tunnel collapse <i>Mr. Oliver Barker</i>
16:45	# 4328	Comparison and Quantitative Study of Vulnerability/Damage Curves in South Africa <i>Ms. Tebogo Pule</i>
17:00	# 3047	Quantitative Assessment on the Influence of Rainfall on Landslides in Jianshi County of Qing River Basin, China <i>Mr. Ningtao Wang</i>
17:15	# 330	An overview of seismic hazard microzonation of Thrissur city, Thrissur District, Kerala, India <i>Mr. K.K. Behera</i>
17:30	# 3895	Geohazards and geodisasters: Natural and human consequences <i>Dr. Yujiro Ogawa</i>

### Wednesday - Session 10 T9.10 - Geological Mapping & Mineral Exploration: Case studies from Africa / Spectral Geology in Exploration (minerals, hydrocarbon, geothermal) and Production MR 2.44 - 2.46

16:00–17:45

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 3963	A hyperspectral remote sensing flight campaign in the VNIR-SWIR-TIR wave length for reconnaissance mapping of the BIFs of the Kaapvaal Craton <i>Dr. Michaela Frei</i>
16:15	# 237	Spectral Characteristics of Plants Growing On Chromite Mineralization In West Pokot District, Kenya <i>Prof. Beneah D. Odhiambo</i>
16:30	# 5152	Structural setting of the Asmara area, Eritrea <i>Dr. Tsehaie Woldai</i>
16:45	# 4002	The Chaîne des Mongos - a newly discovered Precambrian fold belt in Central African Republic and South Sudan <i>Dr. Sharad Master</i>
17:00	# 2575	A rapid characterisation strategy involving hyperspectral core logging (HyLogging™), X-ray diffraction (XRD) and Laser Induced Breakdown Spectroscopy (LIBS) – A case study <i>Dr. Suraj Gopalakrishnan</i>
17:15	# 2086	Applications of hyperspectral sensing in oil sands mining operations <i>Dr. Benoit Rivard</i>
17:30	# 4277	Australia's National Virtual Core Library: Examples of integrating data across geological terranes to highlight prospectivity <i>Ms. Belinda Smith</i>

### Wednesday - Session 7 T10.7 - Historical Studies of Gondwana MR 1.64

08:00–10:00

TIME	PAPER #	PAPER TITLE & AUTHOR
08:00	# 3455	Before Plate Tectonics: The Long Exchange between Physics and Geology from 1600 to the 20th Century <i>Dr. Gregory Good (KEYNOTE SPEAKER)</i>
08:30	# 773	Ancient Terms and New Concepts: "The Face of the Earth" and "Gondwana-Land" <i>Dr. Marianne Klemun</i>
08:45	# 30	Pioneering geologic mapping in northwestern South America <i>Dr. Ken Aalto</i>
09:00	# 2897	A History of Early Antarctic Fossil Discoveries in Support of the Supercontinent Gondwana <i>Prof. Renee Clary</i>
09:15	# 653	Early correlations between the Cape Belt and Ventania Systems: Keidel's pioneer work and his influence on Wegener's Continental drift and Du Toit's ideas <i>Dr. Victor A. Ramos</i>
09:30	# 5230	The reception of "Our Wandering Continents" (1937), from the correspondence of its author, South Africa geologist A.L. du Toit <i>Dr. Sharad Master</i>

### Wednesday - Session 8 T11.8 - Medical Geology on a Dynamic Planet: Prosperity, Poisons and Providence Westin - Victoria & Alfred

10:30–12:00

TIME	PAPER #	PAPER TITLE & AUTHOR
10:30	# 5577	Medical Geology on a Dynamic Planet: Prosperity, Poisons and Providence <i>Dr. Kim Dowling (KEYNOTE SPEAKER)</i>



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11:00	# 2117	Mapping the geochemical environment of urban areas <b>Mr. Alecos Demetriades</b>
11:15	# 3053	Metal accumulation in Australian fungi: Uptake, Toxicity and Risk <b>Dr. Kim Dowling</b>
11:30	# 1574	Groundwater Pollution with Organoarsenic Compounds (DPAA) and Sustainable non-polluted Groundwater Utilization for the Irrigation in the Paddy Fields <b>Prof. Hisashi Nirei</b>

## Wednesday - Session 9 14:00–15:30 T11.9 - Medical Geology / Medical Geology - case studies from Africa Westin - Victoria & Alfred

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 2855	Elongated mineral particles in iron and gold mines? An exploratory study from Quebec, Canada <b>Prof. Felix Gervais</b>
14:15	# 255	Identification of the geogenic source of fluoride in the groundwater of Chittur-Kollangod area, Palakkad District, Kerala, India <b>Mr. R Sajeev</b>
14:30	# 5323	Africa: A natural laboratory for medical geology investigations <b>Prof. Hassina Mouri (KEYNOTE SPEAKER)</b>
15:00	# 2238	Risk Analysis of South African Mine Tailings: Investigating the transfer factor from source to receptor <b>Mr. Jandre De Wet</b>
15:15	# 5410	Metal transfer ratios from soil to plants and the risk they pose to human and livestock: An example of the Berg Aukas and Tsumeb mining districts, Namibia. <b>Prof. Benjamin Mapani</b>

## Wednesday - Session 10 16:00–17:45 T11.10 - Medical Geology on a Dynamic Planet: Prosperity, Poisons and Providence / Africa: A natural laboratory for medical geology investigations Westin - Victoria & Alfred

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 3566	Toxic elements in vegetables from gold mining sites in Zimbabwe: Implications for human health <b>Ms. Daina Mudimbu</b>
16:15	# 1059	Health impacts of the Pilanesberg Complex and the Rustenburg Layered Suite on communities in the Mabeskraal-Mabaalstad areas in the North West Province <b>Ms. Refilwe Shelembe</b>

## Wednesday - Session 7 08:00–10:00 T12.7 - Roles of Professional bodies and International Standards MR 2.41 - 2.43

TIME	PAPER #	PAPER TITLE & AUTHOR
08:00	# 1541	The development of the Committee for Mineral Reserves International Reporting Standards (CRIRSCO) and the International Reporting Template <b>Mr. Roger Dixon (KEYNOTE SPEAKER)</b>
08:30	# 155	The International Mineral Reporting Codes – The importance of the Competent Person <b>Mr. Ken Lomborg</b>
08:45	# 508	Geology, the regulated discipline in Europe - A historical review and a vision <b>Dr. Tamas Hamor</b>
09:00	# 3177	Professional Geoscientist Self-Regulation In Small Jurisdictions: Lessons Learned by Geoscientists Nova Scotia and Applicability for International Start-ups. <b>Mr. Robert Stewart</b>
09:15	# 3021	Professionalism and Ethics in Resource Development in Canada: Cooperation among Regulators and Academia—Missed Opportunities and Needed Changes <b>Mr. George Eynon</b>
09:30	# 3022	Innovation in Establishing the Standard of Care in a Self-Regulated Profession <b>Ms. Lindsay Steele</b>
09:45	# 2120	The future of professional regulation: business as usual or a growing proactive role? Examples from the Ordre des géologues du Québec <b>Mr. Alain Liard</b>

## Wednesday - Session 8 10:30–12:00 T12.8 - Geoethics and Resources Needs for Future Generations - 1 MR 2.41 - 2.43

TIME	PAPER #	PAPER TITLE & AUTHOR
10:30	# 4406	Delivering Sustainable Development Goals: the need for a new Social Contract for mining <b>Mr. Edmund Nickless (KEYNOTE SPEAKER)</b>
11:00	# 3068	Finland's Green Mining concept aims to promote sustainable and acceptable mining <b>Prof. Pekka Nurmi</b>
11:15	# 4700	Need for a European Geological Service responding to societal challenges on Energy, Mineral and Groundwater resources <b>Mr. Serge Van Gessel</b>
11:30	# 4970	Externalities of Fossil Fuel Combustion: An Ethical Reassessment of Liability <b>Dr. George Stone</b>





**Wednesday - Session 9** **14:00–15:30**  
**T12.9 - Geoethics and Resources Needs for Future Generations - 2**  
**MR 2.41 - 2.43**

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 5083	Geo-mapping for Energy and Minerals: A “For Northerners, By Northerners” approach to indigenous engagement activities <b>Dr. Daniel Lebel</b>
14:15	# 69	Deep Seabed Mining, Geo-ethics and Pacific Small Island Developing States <b>Dr. Jane Verbitsky</b>
14:30	# 5136	The nature and articulation of ethical codes on tailings management in South Africa <b>Mr. Tobias Poswa</b>
14:45	# 1310	Managing geo-environment information in the extractive sector and performance in Nigeria: Some empirical results from the field. <b>Mr. Abbas AbdulRafiu</b>
15:00	# 5296	The missing ethics of mining: The case study of Odisha, India <b>Prof. Madhumita Das</b>

**Wednesday - Session 10** **16:00–17:45**  
**T12.10 - Ethical Practice In Geoscience**  
**MR 2.41 - 2.43**

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 2146	A Review of International Disciplinary Measures in Professional Geoscience - both Procedures and Actions <b>Mr. Oliver Bonham (KEYNOTE SPEAKER)</b>
16:30	# 389	Trends in geoscience professional ethics indicated by National Association of State Boards of Geology (ASBOG®) surveys of the practicing profession <b>Prof. John Williams</b>
16:45	# 65	The roles and responsibilities of geoscientists providing expertise in civil and criminal proceedings – a practical guide to the requirements and avoiding pitfalls <b>Ms. Ruth Allington</b>
17:00	# 3178	Geoethics Experiences Of A Minerals Explorationist At Home and Abroad <b>Mr. Robert Stewart</b>
17:15	# 1634	Identifying Ethical Principles that Apply to All Geoscientists: AGI Guidelines for Ethical Professional Conduct <b>Dr. Maeve Boland (KEYNOTE SPEAKER)</b>

**Wednesday - Session 7** **08:00–10:00**  
**T14.7 - Coast and Society**  
**MR 2.61- 2.63**

TIME	PAPER #	PAPER TITLE & AUTHOR
08:00	# 2570	Geo-environment changes corresponding to global climate and anthropogenic injection in small river estuaries on China coast <b>Dr. Ping Yin</b>
08:15	# 2169	Wavelet Analysis of the Dynamic Characteristics of Saltwater Intrusion in the Beibu Gulf, Southern China <b>Dr. Qinghua Li</b>
08:30	# 1023	3D Morphometry vis-à-vis offshore Placer resources off Chikka – Puri, Odisha, East coast of India <b>Dr. Sumit Mitra</b>
08:45	# 764	A signal matching algorithm based on Dynamic Time Warping <b>Dr. Sergey Kotov</b>
09:00	# 344	Sustainability of Landforms in Western Sunderban, West Bengal, India <b>Mr. Debasis Sengupta</b>
09:15	# 5045	Integrated Protocols for Monitoring the Impacts of Landfill-Derived Leachates in Intertidal Environments <b>Dr. Helen Roe</b>
09:30	# 4598	Innovative Burning and Reuse of Asbestos Fibers by Self-Propagating High Temperature Synthesis: the Development of an Innovative Technique for the Treatment of Asbestos Containing Waste from the Laboratory Scale to the Implementation of Prototype Plants <b>Prof. Maurizio Ferretti</b>
09:45	# 3686	Adsorption of pharmaceuticals onto clay minerals and their organoclay derivatives <b>Dr. Regis Guegan</b>

**Wednesday - Session 8** **10:30–12:00**  
**T14.8 - Geological controls on the quantitative risk assessment of contaminants in shallow soils and groundwater (human health and eco-toxicology); the importance of a good conceptual site model prior to remediation**  
**MR 2.61- 2.63**

TIME	PAPER #	PAPER TITLE & AUTHOR
10:30	# 3521	Physical and mineralogical characterisation of asbestos mine sites in preparation for rehabilitation <b>Ms. Ndamulelo Negota</b>
10:45	# 3181	Study on the Concentration and Influence Factor of Organo-Chlorine Pesticides in Breast Milk from Three Cities in China <b>Ms. Song Shuling</b>
11:00	# 2174	Spatial Assessment of Trace Metals in Groundwater around Udupi Thermal Plant, India <b>Dr. Hn Udaya Shankara</b>
11:15	# 2158	Radioactive measurement at the fallow field that was polluted by the Fukushima Daiichi Nuclear Power Station Disaster. <b>Mr. Kazuya Kimura</b>
11:30	# 2090	Scientific Advancements that Improve the Conceptual Site Model in Urban Hydrogeologic Investigations <b>Mr. Daniel Rogers</b>



# Wednesday 31 August

11:45 # 1775 Accumulation of Potentially Harmful Elements in Vegetables from Two Geological Settings in Zimbabwe  
*Dr. Maideyi Meck*

**Wednesday - Session 9** 14:00–15:30  
**T14.9 - Geological controls on the quantitative risk assessment of contaminants in shallow soils and groundwater (human health and eco-toxicology); the importance of a good conceptual site model prior to remediation**  
**MR 2.61- 2.63**

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 1653	The study of groundwater contamination hazard in megacities by mathematical methods (the cases of Moscow, Russia and Hyderabad, India) <i>Dr. Irina Galitskaya</i>
14:15	# 1638	The Development of Sustainable Risk-based Site Assessment Criteria for Contaminated Land in Africa <i>Mr. Sean Doel</i>
14:30	# 1631	Fluoride Incidence in Groundwater: An Insight from Rural Parts of Central India <i>Prof. Deepak Malpe</i>
14:45	# 1394	GIS-Techniques and AHP Method to Support Decision Making in the Selection of Landfill Sites for Solid Waste <i>Dr. Marcella Perricone</i>
15:00	# 962	Investigation of the Influence of Heavy Metals on Soil, Groundwater, Crops and Human Health in Shijiazhuang Sewage Irrigation Area of China <i>Prof. Wenlou Luan</i>
15:15	# 422	The uranium toxicity in groundwater in Southern Punjab (Malwa Region), India <i>Dr. Rajesh Chaturvedi</i>

**Wednesday - Session 10** 16:00–17:45  
**T14.10 - Geoscience at the nexus of industry, water and social impacts of the extractive and power industries**  
**MR 2.61- 2.63**

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 5277	Groundwater Baseline Monitoring at Underground Coal Gasification Sites in South Africa <i>Dr. Jennifer Pretorius (KEYNOTE SPEAKER)</i>
16:30	# 4876	Lighting up the Subsurface <i>Dr. John Ludden</i>
16:45	# 5423	The Saga of Indian mines: Environmental and Social Relevance <i>Dr. Gurmeet Kaur</i>
17:00	# 2885	Risks Associated with Consumption of Vegetables Grown in and around Abandoned Gold Mines in Kadoma, Zimbabwe <i>Dr. Maideyi Meck</i>
17:15	# 100	Germany's new approach for siting a nuclear waste repository <i>Dr. Volkmar Braeuer</i>
17:30	# 2078	Development of an Environmental Risk Management and Sustainability Model Using Chemistry, Geology, Human Activity, and Response Inputs <i>Mr. Daniel Rogers</i>

**Wednesday - Session 7** 08:00–10:00  
**T15.7 - Aggregates and construction materials (sponsored by IAEG C-14)**  
**Hall 4B1**

TIME	PAPER #	PAPER TITLE & AUTHOR
08:00	# 980	Suitability of lateritic soils in the construction/development of sustainable housing in Africa: A Geological Perspective. <i>Mr. Charles A. Oyelami</i>
08:15	# 1433	Quantitative Determination of Sphericity and Roundness of Pebbles and Sand Grains <i>Dr. Tamas Jasko</i>
08:30	# 5503	The potential use of aeolian sands in roads in Limpopo <i>Prof. Philip Paige-Green</i>
08:45	# 1977	Using geophysics to find suitable rock aggregates as replacement for fluvial sand in Botswana <i>Mr. Onkgopotse Ntibinyane</i>
09:00	# 5029	Crushed aggregate potential in Newcastle, KZN Province, South Africa <i>Dr. Souleymane Diop</i>
09:15	# 5099	Local raw material building: history and challenges in Uruguay <i>Dr. Marcos Musso</i>

**Wednesday - Session 8** 10:30–12:00  
**T15.8 - Sustainable use of the subsurface: the geology, engineering and environment of our underground asset**  
**Hall 4B1**

TIME	PAPER #	PAPER TITLE & AUTHOR
10:30	# 1658	Geological hazards and the construction of new metro routes in Moscow <i>Dr. Olga Eremina</i>
10:45	# 4161	Finite Difference Modelling of Seepage in a Region of the Foundation Rock Below a Concrete Gravity Dam Wall <i>Mr. André Joubert</i>
11:15	# 2012	Assessment of rock slope failure analysis and rock mass Characterization along a road-cut (NH-108) in Sub-Himalaya region, India <i>Mr. Anil Kumar Gupta</i>



11:15	# 3639	Tunnelling in Himalayas Under Water Charged Conditions: Estimation and Remediation <i>Dr. K. Seshagiri Rao / Mr. Arindom Chakraborty</i>
11:30	# 1887	How fractographic analyses uncover complex trends of modern and palaeo principal stresses <i>Dr. Martin Ziegler</i>
11:45	# 2728	Applying urban-scale 3D subsurface modeling to sustainably manage the underground assets of Rotterdam (NL) <i>Dr. Jeroen Schokker</i>

**Wednesday - Session 9** **14:00–15:30**  
**T15.9 - Laboratory and field testing - innovations and new methods of interpretation**  
**Hall 4B1**

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 4481	Insitu Estimation of Swelling Pressure Using Inundated Plate Load Test on Marl/ Clay of Duqm Area, Sultanate of Oman - A Case Study <i>Mr. Khaleel M Musthafa</i>
14:15	# 4336	Geotechnical centrifuge modelling of transverse hydrodynamic dispersion in uniform unsaturated material <i>Mr. Brendon Jones / Luke Brouwers</i>
14:30	# 2175	Numerical simulation on Coupling of Stress-Flow within a Single Fracture <i>Dr. XueJie Cui</i>
14:45	# 1053	Controlling Hydraulic Conditions of the Excavation-Damaged Zone at the Äspö Hard Rock Laboratory, Sweden <i>Prof. Lars O. Ericsson</i>
15:00	# 3888	The use of geophysics in ground investigation <i>Ms. Marie Fleming</i>
15:15	# 4059	Advances to the Modelling of Variably Saturated Fracture Flow using the Geotechnical Centrifuge in South Africa <i>Mr. Brendon Ronald Jones</i>

**Wednesday - Session 10** **16:00–17:45**  
**T15.10 - Laboratory and field testing - innovations and new methods of interpretation**  
**Hall 4B1**

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 4265	Development of Technology for Directional Drilling - Results of Drilling and Survey in the Borehole <i>Dr. Kenzo Kiho</i>
16:15	# 3073	Use of multiferroic alloy to convert waste heat from non-commercial geothermal wells to electricity <i>Mr. Kulundu Levi</i>
16:30	# 2805	Geomorphology and rock slope instabilities in the archaeological site of Petra (Jordan) <i>Dr. Daniele Spizzichino</i>
16:45	# 310	Cation exchange in the montmorillonitic soil as a low cost measure to improve its shear strength <i>Dr. Sudipta Sarkar</i>
17:00	# 568	Centrifugal modelling of an embankment on soft soil with soil-cement columns and prefabricated vertical drains <i>Ms. Qingwen Zhang</i>
17:15	# 2642	Field vs. laboratory analysis of sound velocity of sediments from Huanghai and Bohai <i>Mrs. Jiewen Zheng / Mr. Xiaolei Liu</i>

**Wednesday - Session 7** **08:00–10:00**  
**T16.7 - Geostatistics for Geological Resources Modeling**  
**MR 1.61**

TIME	PAPER #	PAPER TITLE & AUTHOR
08:00	# 212	Modelling long-term transportation of ore-sourced geochemical elements in the vertical profile of the loess cover <i>Prof. Deyi Xu</i>
08:15	# 251	Drilling strategies when evaluating the Merensky and UG2 Reefs <i>Mr. Dave Young</i>
08:30	# 812	High dimensional data visualization helps data mining from well log data <i>Dr. Shaoqun Dong</i>
08:45	# 2695	Dealing with outliers within the Kriging Framework <i>Mr. Leon Tolmay</i>
09:00	# 2999	Multiple Reef packages and its impact on estimation techniques applications <i>Mr. Leon Tolmay</i>
09:15	# 705	Identification and visualization of anomalous areas by using the cause-effect analysis of spatial data <i>Dr. Susanna Sirotinskaya</i>
09:30	# 4650	Practical Application of Gy Sampling Theory in Mining: An Example from Mogalakwena Open Pit Pt Mine <i>Mr. Trust Muzondo</i>
09:45	# 4445	Optimal sampling for variogram estimation in order to determine sample line spacing for a Marine Diamond deposit . <i>Prof. Christien Thiar</i>

**Wednesday - Session 8** **10:30–12:00**  
**T16.8 - Mineral Resources Evaluation, Geostatistics and Mathematical Geoscience**  
**MR 1.61**

TIME	PAPER #	PAPER TITLE & AUTHOR
10:30	# 3551	Finding the Optimal Dynamic Anisotropy Resolution for Grade Estimation Improvement at Driefontein Gold Mine, South Africa <i>Ms. Senzeni Mandava</i>



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10:45	# 4223	Constructing 3D Geological model with modified multiple-point statistics algorithm <i>Dr. Weisheng Hou</i>
11:00	# 780	The ore body model and reserves estimation of the Tiegelongnan deposit ,northern Tibet <i>Dr. Yong Song</i>
11:15	# 921	A favourable topographical characteristics for locating Fe deposits in Fujian Province of China <i>Prof. Renguang Zuo</i>
11:30	# 1122	Characterization of primary geochemical haloes Associated with Sn-Zn mineralization at the Dulong deposit, China <i>Dr. Zhao Jiangnan</i>
11:45	# 4489	Resource identification and commercial evaluation of Dimension stone Granite deposits of Pudukottai district, Tamil Nadu, India <i>Dr. Jayabalan Kaliyaperumal</i>

## Wednesday - Session 9 T16.9 - Statistical analysis of compositional data. Theory and applications to Earth Sciences MR 1.61 14:00–15:30

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 1055	Mapping gold pathfinder metal ratios – A methodological approach based on compositional analysis of spatially distributed multivariate data <i>Dr. Luis Braga</i>
14:15	# 1449	Interpretable principal balances for compositional data in geochemistry <i>Dr. Josep-Antoni Martin-Fernandez</i>
14:30	# 1437	Latent endmember identification by means of Gaussian anamorphosis <i>Dr. Raimon Tolosana-Delgado</i>
14:45	# 1923	Spatial hazard assessment using simplicial indicator kriging <i>Dr. JJ Egozcue</i>
15:00	# 1341	Surface Roughness and Micromorphology of Carbonates Dissolved in Three Different Acids by Multifractal Analysis <i>Mr. Mohai Zhang</i>

## Wednesday - Session 10 T16.10 - Mining Geostatistics and Operations Research in Mine Planning / Statistical analysis of compositional data. Theory and applications to Earth Sciences MR 1.61 16:00–17:45

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 3074	Correlation analysis for compositional data using logratio coordinates <i>Dr. Karel Hron</i>
16:15	# 3419	Analysis of geochemical well logs in crystalline rocks using statistical approach: Case study of Chinese Continental Scientific Drilling Main Hole <i>Dr. Ahmed Amara Konate</i>
16:30	# 1138	Pixel-Based Simulation Approaches for Profiling the Weipa Lateritic Bauxite Deposit <i>Dr. Oktay Erten</i>
16:45	# 1767	Modelling the Merensky Reef variability at Lonmin's Marikana Operations <i>Mr. Dennis Hoffmann</i>
17:00	# 600	Open pit mine planning using multivariate conditional simulation <i>Mr. Ngoc Luan Mai</i>
17:15	# 154	The Importance of the International Reporting Codes in the Mining Industry <i>Mr. Ken Lomberg</i>
17:30	# 5198	Value Based Extraction Decisions under Challenging Market Conditions at Mogalakwena Platinum Complex <i>Mrs. Kavita Mohanlal</i>

## Wednesday - Session 7 T17.7 - New theories and methods in resources exploration Auditorium 2 08:00–10:00

TIME	PAPER #	PAPER TITLE & AUTHOR
08:00	# 52	Zn spinel composition in the Mavala-Mpaca area, southern Xixano Complex, Northern Mozambique <i>Mrs. Judy Schlegel</i>
08:15	# 1106	Electro-geochemical extraction in exploration for sandstone-hosted uranium deposits in northern China <i>Dr. Dan Ke</i>
08:30	# 222	Monitoring of mineral deposits in order to optimize the use of subsoil resources <i>Prof. Georgii Rudko</i>
08:45	# 576	Using microbial indicators in mineral exploration: Lessons from Australia <i>Dr. Frank Reith</i>
09:00	# 716	Thermomagnetic Component Measurement (TCM) : A New Method for Mineral Exploration in Coverage Areas <i>Ms. Shixin Tang</i>
09:15	# 1614	Metallogenic characteristics of altered granite type Sn-Cu polymetallic deposit, Gejiu, China <i>Dr. Zhao Jiangnan / Dr. Xiang Tong</i>
09:30	# 3071	Newly Adopted and Combined Helicopter-borne, Ground-based and Laboratory Methods for Mineral Exploration <i>Dr. Uwe Meyer</i>





09:45	# 5574	Granite metallogeny through the zircon record: A study from Myanmar <i>Dr. Nicholas Gardiner / N.J. Evans</i>
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**Wednesday - Session 8**  
**T17.8 - New theories and methods in resources exploration**  
**Auditorium 2**  
**10:30–12:00**

TIME	PAPER #	PAPER TITLE & AUTHOR
10:30	# 3683	Downhole XRF-Logging: A new tool to explore borehole rock composition <i>Dr. Uli Harms</i>
10:45	# 2426	Application of highly-accurate magnetic survey for searching mineral deposits in shelf area. <i>Dr. Vasily Palamarchuk</i>
11:00	# 2586	Using hydrogeochemistry to test mineral potential under transported cover in the Kunene Region of Namibia <i>Dr. Amanda Stoltze</i>
11:15	# 3297	A New Method for Resource Assessment and Prospect Delineation: Based on Geological Process Analyzing <i>Dr. Ruizhao Qiu / Dr. Zhigang Liu</i>
11:30	# 4508	Petrogenetic tools as tracers of ore-forming processes: An appraisal of recent approaches <i>Dr. Nicholas Gardiner</i>
11:45	# 2155	SWIR characteristics of alteration minerals in Tongshankou porphyry-skarn Cu -Mo deposit in the Southeastern Hubei Fe-Cu Province, eastern China <i>Dr. Jinsheng Han</i>

**Wednesday - Session 9**  
**T17.9 - New theories and methods in resources exploration**  
**Auditorium 2**  
**14:00–15:30**

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 3478	The importance of Dwyka Group glaciation with regards to alluvial diamond transportation, concentration and entrapment in South Africa. <i>Mr. Pieter Bosch</i>
14:15	# 4558	Spatial modeling of metal contents in a kuroko-type deposit by joint use of geostatistics and physical law <i>Mr. Lei Lu</i>
14:30	# 5340	Chlorite chemistry as a new exploration tool in the propylitic halo of porphyry-epithermal systems <i>Dr. Jamie Wilkinson</i>
14:45	# 5369	Towards better understanding of Porphyry Copper and IOCG systems through magnetic forward modelling of variable 3D geology-property scenarios <i>Dr. Desmond FitzGerald</i>
15:00	# 4339	Application of in situ SHRIMP U–Pb geochronology to orogenic gold exploration <i>Ms. Imogen Fielding</i>
15:15	# 4864	Pre-liminary Geophysical Interpretation and Modeling of the Magnetic Data in the Eiseb Area, Omaheke Region, Namibia <i>Mr. Ivor Kahimise</i>

**Wednesday - Session 10**  
**T17.10 - Geoelectrics (geoelectromagnetic methods) for geotectonics**  
**Auditorium 2**  
**16:00–17:45**

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 1411	Using geophysical data to create a 3D conceptual geological model for the Maremane Dome, Northern Cape, South Africa <i>Mr. Adam Wooldridge</i>
16:15	# 73	Seismic beam-forming method with Cosine amplitude distribution <i>Prof. Tao Jiang</i>
16:30	# 3100	Structural control on supergene nickel deposits explored by heliborne electromagnetic surveys in New Caledonia <i>Ms. Marion Iseppi</i>
16:45	# 3379	The Largest in the World Conductive Zones as Indicators of the Earth's Crust Structure and Evolution. <i>Dr. Abdulkhai Zhamaletdinov</i>
17:00	# 4897	On the structure of Fennoscandian AR-PT High Conductive Suture Zones on the Example of Ladoga-Bothnian Anomaly <i>Dr. Abdulkhai Zhamaletdinov</i>
17:15	# 1060	Geodynamic Model of the Earth Crust Structure from the Control Source Electromagnetic Soundings CSEMS and the Super Deep Drilling Data <i>Dr. Abdulkhai Zhamaletdinov</i>

**Wednesday - Session 7**  
**T18.7 - Processes governing ore formation in the Bushveld Complex and other mafic and ultramafic magmatic systems (IAGOD-CODMUR sponsored)**  
**Ballroom East**  
**08:00–10:00**

TIME	PAPER #	PAPER TITLE & AUTHOR
08:00	# 3452	Geological history of the Guayana Shield, Venezuela, and its mineralogical resources: a tale of supercontinents and mantle plumes <i>Mr. Vicente Mendoza</i>
08:15	# 149	Deep “plugs” caught in continent-to-continent collisions, gemstones, deposits of metals, oil & gas <i>Dr. John Saul</i>



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08:30	# 3039	Thin Stringers of "Reaction" Chromitite in the Upper Critical Zone, Eastern limb of the Bushveld Complex <b>Dr. Roger Scoon</b>
08:45	# 271	Eastern limb of the Bushveld Complex, South Africa: Geology and Geomorphology of a Uniquely Layered Ultramafic-mafic Intrusion <b>Dr. Roger Scoon / Prof. Morris Viljoen</b>
09:00	# 209	Partial assimilation of calc-silicate xenoliths in the Uitkomst Complex, South Africa <b>Dr. Nicolaas Steenkamp</b>
09:15	# 294	Controls of phosphogenesis on the Western Continental Margin of India <b>Dr. Adukadukkam Anil Kumar</b>
09:30	# 706	Paragenetic Sequence of Sulfosalt Mineralization at Epithermal Deposits of Southwestern Hokkaido, Japan <b>Dr. Euis Tintin Yuningsih</b>
09:45	# 5100	Smectite formation in the Úrkút Mn-ore deposit, Hungary <b>Mr. Mate Zsigmond Lesko</b>

## Wednesday - Session 7 T18.7a - Sediment-hosted ore deposits Ballroom West

08:00–10:00

TIME	PAPER #	PAPER TITLE & AUTHOR
08:00	# 654	Environmental significance of bulk geochemistry and metal anomalies within Hirnantian rocks of the Valongo Anticline, northern Portugal <b>Prof. Jasper Knight</b>
08:15	# 4554	The Kamo Copper Project on the Congolese Copperbelt <b>Mr. George Gilchrist</b>
08:30	# 3908	Basin inversion as a driver of fluid flow and Pb-Zn mineralization in the Paleoproterozoic-earliest Mesoproterozoic Mount Isa mineral province: evidence from deep seismic reflection profiling and gravity modelling <b>Dr. George M. Gibson</b>
08:45	# 5229	Geological and Geophysical Study of the Kombat South area, Otavi Mountain Land, northern Namibia <b>Mr. Josia Shilunga</b>
09:00	# 5352	Geology of the Kinsevere Cu Deposit, Democratic Republic of the Congo <b>Mr. Ahmad Saleem</b>
09:15	# 419	Mineralogy and Mineral chemistry of manganese ores of the Proterozoic Sausar Fold Belt (SFB), Central India. <b>Mr. Ramanath Barik</b>
09:30	# 1329	Metallogenic Subtypes of Sandstone Type Uranium Deposits and Prospecting Direction in Junggar Basin, China <b>Prof. M.K Qin</b>
09:45	# 1412	Structural framework of the Maremane Dome: Selective iron ore preservation <b>Dr. Ian Basson</b>

## Wednesday - Session 8 T18.8 - Processes governing ore formation in the Bushveld Complex and other mafic and ultramafic magmatic systems (IAGOD-CODMUR sponsored) Ballroom East

10:30–12:00

TIME	PAPER #	PAPER TITLE & AUTHOR
10:30	# 3892	Genesis of Chromite by Dynamic Upgrading of Xenocrystic Fe ± Ti Oxide <b>Dr. C Michael Lesher (KEYNOTE SPEAKER)</b>
11:00	# 4726	Crystallization of chromite and its influence on the fractionation of Os, Ir, Ru and Rh <b>Mr. Philippe Pagé</b>
11:15	# 3422	Chemical zonation in stratiform chromitites of the Imandra Layered Intrusion, Kola Peninsula, Russia <b>Dr. Sofia Chistyakova / Prof Rais Latypov</b>
11:30	# 1773	Fractionation, Exsolution and Magnetism: Petrophysical Insights into PGE prospectivity in the Giles Mafic-Ultramafic Intrusive complex, Central Australia. <b>Dr. James Austin</b>
11:45	# 4740	Significance of Metal Tenor Variations in Cu-PGE deposits of the Coldwell Alkaline Complex, Canada: an Exploration Tool <b>Dr. David Good</b>

## Wednesday - Session 8 T18.8a - Sediment-hosted ore deposits Ballroom West

10:30–12:00

TIME	PAPER #	PAPER TITLE & AUTHOR
10:30	# 1672	Structural Architecture of the CSA Cu-Ag (Pb-Zn) Deposits – A New Perspective on the Formation of the Cobar Mining Field, NSW, Australia <b>Dr. Roisin Kyne</b>
10:45	# 2179	Physico-chemical controls on ore deposition in the the La'erma and Qiongmo Au–Se deposits in the western Qinling Mountains, China <b>Dr. Jiajun Liu</b>
11:00	# 3099	Dictionema shales and Obolus sandstone (Phosphorite) of the Baltic sedimentary basin: new type of complex ore for Rhenium and Uranium, Platinoids and rare-earth metals <b>Dr. Vladimir Vyalov</b>
11:15	# 3550	A Fluid Inclusion and In-Situ LA-MC-ICP-MS Sulfur Isotope Study of the Wusihe Lead-Zinc Deposit in Sichuan Province of Southwest China: Implications for Ore Genesis <b>Dr. Suo-Fei Xiong</b>



11:30	# 4261	Source and evolution of ore fluids of the Daqiao sediment-hosted gold deposit, western Qinling orogen, China: revealed from in situ sulfur isotope analysis of sulfides <i>Mr. Ya-Fei Wu</i>
11:45	# 4961	Genesis of the Eugui sparry Magnesite deposit, Western Pyrenees, Spain <i>Prof. Hamdy El Desouky</i>

### Wednesday - Session 9

14:00–15:30

#### T18.9 - Processes governing ore formation in the Bushveld Complex and other mafic and ultramafic magmatic systems (IAGOD-CODMUR sponsored)

Ballroom East

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 3893	Two Melts in the Sudbury Igneous Complex <i>Dr. CM Lesher</i>
14:15	# 4469	PGE-Ni-Cu deposit formation in a deep-crustal ultramafic conduit system. The Seiland Igneous Province, North Norway <i>Dr. Rune Larsen B.</i>
14:30	# 4091	Comparison of the style and nature of breccia-hosted Ni-sulphide mineralisation within the Munali intrusion, Zambia <i>Ms. Chloe Louise Mitchell</i>
14:45	# 3180	Assessment of the Ni-Cu-PGE sulfide potential of magmatic intrusions surrounding the Munali Ni-sulfide deposit, Zambia <i>Ms. Grace Howe</i>
15:00	# 451	Occurrence of PGE and their characterisation in 3.35 Ga Sargur greenstones of Western Dharwar Craton, Karnataka, India <i>Dr. Manoranjan Mohanty</i>
15:15	# 405	Ore genetic model of Heti Ni-Cu-PGE prospect, Central India: From magmatic crystallization to high grade metamorphism and hydrothermalism. <i>Dr. Muduru lachhana Dora</i>

### Wednesday - Session 9

14:00–15:30

#### T18.9a - Trace element analysis of minerals: applications in ore geology (Sponsored by IAGOD)

Ballroom West

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 3432	A Petrographic and Geochemical Analysis of the Kalahari Manganese Deposit, Northern Cape, South Africa <i>Mrs. Lauren Blignaut</i>
14:15	# 1758	Gold provenance fingerprinting and prospectivity in Western Australia <i>Dr. Elena Hancock</i>
14:30	# 2185	Application of Pyrite Trace Element Chemistry using LA-ICP-MS in exploration for stratiform Zn-Pb deposits: An example from the McArthur Basin, Australia <i>Ms. Indrani Mukherjee</i>
14:45	# 3247	Trace element signatures of iron oxides in BIF-style iron deposits of the Middleback Ranges, South Australia <i>Mr. William Keyser</i>
15:00	# 4651	Phosphorites' Sedimentary Event in Sinian Doushantuo period: the Cases Study of Weng'an Phosphorite and Yichang Phosphorite <i>Mr. Wentian Mi</i>
15:15	# 1148	Metallogenic model of the Uranium deposits in Guyuan area, China <i>Dr. ZX Huang</i>

### Wednesday - Session 10

16:00–17:45

#### T18.10 - Major Mineral Deposits of Africa (sponsored by Vale)

Ballroom East

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 2332	Phosphorus zoning in olivine from the Fe-Ti oxide-bearing Baima mafic intrusion, SW China: implications for the origin of Fe-Ti oxide ores <i>Dr. Chang-Ming Xing</i>
16:15	# 5434	The Great Mineral Fields of Africa <i>Mrs. Susan Frost-Killian</i>
16:30	# 5438	BIF-hosted manganese deposits of Africa <i>Prof. Nicolas Beukes</i>
16:45	# 3111	Manganese Deposits of Africa - Black Shale Associated Deposits <i>Mr. Edward Swindell</i>
17:00	# 1916	Paleoproterozoic banded iron formation-hosted high-grade hematite iron ore deposits of the Transvaal Supergroup, South Africa <i>Dr. Albertus Smith</i>
17:15	# 1397	Structural control of fluid flow and Fe deposition at Thabazimbi Mine: Insights from mapping and 3D modelling of operational pits <i>Dr. Ian Basson (KEYNOTE SPEAKER)</i>

### Wednesday - Session 10

16:00–17:45

#### T18.10a - Mineral Deposits and Ore Forming Processes

Ballroom West

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 4804	High resolution U-Pb CA-ID-TIMS dating documents out of sequence emplacement of layering in the Upper Critical Zone of the Rustenburg Layered Suite, Bushveld Complex, South Africa <i>Dr. James Mungall</i>



## Wednesday 31 August

16:15	# 948	Formation Mechanism of Authigenic Grain-Coating Chlorite and Sequence Response: Evidences from the Upper Triassic Xujiahe Formation in Southern Sichuan Basin, China <b>Mr. Yu Yu</b>
16:30	# 1597	Geochemistry of Trace Element of sandstone-type Uranium Deposit in Xixi Area, Bayintala Sag <b>Mr. Chengdong Liu</b>
16:45	# 2466	Influence of reworking and transport processes of phosphatic grains on rare earth element (REE) signatures <b>Prof. Werner Piller</b>
17:00	# 1953	Main types of Platinum-Group Element Mineralization in the Fedorovatundra layered intrusion, Kola Peninsula, Russia <b>Dr. Nikolay Groshev</b>
17:15	# 2279	Ruangwa Graphite deposits and its characters district Ruangwa, Lindi Region, Tanzania <b>Dr. Shyam Ameta</b>
17:30	# 3779	Textural characteristics of sulphides Associated with gold mineralization at the Barberton mines, Barberton greenstone belt, South Africa <b>Dr. Mohammed Alnaghassi Hassan Altigani</b>

### Concurrent Session - Wednesday - Session 7 T20.7 - Petroleum Systems of Eurasia MR 1.43 - 1.44

08:00–10:00

TIME	PAPER #	PAPER TITLE & AUTHOR
08:00	–	INTRODUCTION <b>Paul W Britt</b>
08:15	# 448	Evaluation of the production potential of reservoir and spatial distribution of permeability and estimation of porosity, based on geostatistics modelling in Dezful embayment <b>Dr. Bahram Habibnia</b>
08:30	# 493	Application of High-Resolution Sequence Stratigraphy in Rift Lacustrine Basin – A Case Study of Shahejie Formation, Paleogene, Gaoliu Area, Northeast Bohai Bay Basin, China <b>Mr. Xue Song Fan</b>
08:45	# 2779	Characteristic of Migration and accumulation of oil and gas of Fuyang reservoir in Changyuan and the west area, Daqing, Songliao Basin, China <b>Dr. Lizhi Shi</b>
09:00	# 446	Correlation of Thermal Maturity Parameters Using Geochemical Methods in Azadegan Oil Field <b>Dr. Bahram Habibnia</b>
09:15	# 2684	Discovery of the Jurassic oil under the coverage of volcanic rocks, Tuquan Basin, NE China <b>Dr. Chen Shuwang</b>
09:30	# 2516	Geochemical Analysis and Origin of Gas in Volcanic Reservoirs of the Songliao Basin in China <b>Prof. Shizhen Tao</b>
09:45	# 859	Geological Characteristics and Hydrocarbon Accumulation Model of Sinian-Cambrian Plays in Sichuan Basin, Southwest China <b>Dr. Anna Xu</b>

### Concurrent Session - Wednesday - Session 8 T20.8 - New Technology & Techniques in Exploration & Production MR 1.43 - 1.44

10:30–12:00

TIME	PAPER #	PAPER TITLE & AUTHOR
10:30	# 193	Hydrocarbon migration mechanism and accumulation model of ultra-deep carbonate rocks: a case from China <b>Dr. Jingdong Liu</b>
10:45	# 2688	Origin Mechanism of Reservoir Tightness and "sweet spots" Prediction of Deep Tight Sandstone Gas Reservoir in Tuha Basin, China <b>Prof. Yang Shaochun</b>
11:00	# 2976	Reservoir characteristics, formation mechanisms and petroleum exploration potential of volcanic rocks in China <b>Dr. Zhiguo Mao</b>
11:15	# 3980	Seismic Multi-attribute Optimization Technology and The Application In The Reservoir Prediction Of Carbonate Fracture <b>Mr. Changcheng Han</b>
11:30	# 1554	The role of mobile shale in forming fold belt anticlines and hydrocarbon accumulations in Sabah Basin, Malaysia <b>Dr. Binh Nguyen</b>
11:45	# 1506	The ultra deep water of Bohai bay basin in Paleogene: Its significance of oil and gas <b>Dr. Yong Li</b>

### Concurrent Session - Wednesday - Session 9 T20.9 - New Technology & Techniques in Exploration & Production MR 1.43 - 1.44

14:00–15:30

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 5609	The Global Energy Transition: Fundamental Matters <b>Dr. Scott W. Tinker (KEYNOTE SPEAKER)</b>
14:30	# 489	Light phenomena used to search for hydrocarbon deposits <b>Dr. Valentino Straser</b>
14:45	# 2777	Dynamic Evaluation Method of Low Porosity and Permeability Sandstone Reservoir <b>Ms. Di Sun / Mr. Zheng Dong</b>
15:00	# 4424	Combining rock physics simulation and Gaussian statistical technique to identify Fizz water and gas saturated reservoirs <b>Mr. Nisar Ahmed</b>





15:15	# 3049	Fluvial reservoir architecture characterization of maturing oilfields with seismic sedimentology method: take X Block of Gudong oil field as an example <i>Dr. Xianguo Zhang</i>
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**Concurrent Session - Wednesday - Session 10**  
**T20.10 - New Technology & Techniques in Exploration & Production**  
**MR 1.43 - 1.44**

16:00–17:45

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 1380	Drilling of a 15 km super-deep well – a new stage in search for large and unique hydrocarbon accumulations in the Precaspian basin <i>Dr. Baltabek Kuandykov</i>
16:15	# 1482	The properties of granular, fractured and cavernous reservoir rocks <i>Dr. Marat Mailibayev</i>
16:30	# 2526	Metal anomalies in Geogas above oil reservoir and its significance for oil exploration <i>Ms. Lulu Yuan</i>
16:45	# 2663	New technologies for Petroleum systems exploration and geological risks minimization <i>Dr. Alexei Soloviev</i>
17:00	# 3470	The type, characteristic and effect of the overpressure fracture in shale of Eastern China <i>Mr. Luan Guoqiang</i>
17:15	# 1280	Petroleum prospectivity and CO2 storage assessment in the offshore Browse Basin, North West Shelf, Western Australia & Ashmore and Cartier islands <i>Mrs. Megan Lech</i>
17:30	# 3327	Theory of Petroleum Geology and Exploration in Superimposed Sedimentary Basins around China <i>Dr. Dengfa He</i>

**Concurrent Session - Wednesday - Session 10**  
**T20.10a - New Technology & Techniques in Exploration & Production**  
**Westin - Marco Polo**

16:00–17:45

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 2345	Identification of sedimentary-diagenetic facies and reservoir property prediction: An example from the Eocene beach-bar sandstone in the Dongying Depression, China <i>Dr. Jian Wang</i>
16:15	# 2105	Total Organic Carbon from well logging in the Silurian and Ordovician shale gas formations in Poland <i>Prof. Jadwiga Anna Jarzyna</i>
16:30	# 3336	Russian Arctic Shelf Oil&Gas: present and future <i>Dr. Andrey Chernykh</i>
16:45	# 4429	Looking for hydrocarbon occurrences by the airborne transient soundings <i>Dr. George Trigubovich</i>

**Wednesday - Session 7**  
**T22.7 - Carbon capture and storage – From reservoir through the full value chain**  
**Westin - Marco Polo**

08:00–10:00

TIME	PAPER #	PAPER TITLE & AUTHOR
08:00	# 5565	Moving CCS Forward: Bridging the Industrial Divide – Learnings from the CO2CRC Otway Project, Australia <i>Dr. Matthias Raab (KEYNOTE SPEAKER)</i>
08:30	# 1325	United Nations Framework Classification 2009 <i>Mr. Sean Davids</i>
08:45	# 3496	The Pilot Site Ketzin, Germany – Lessons Learnt on CO2 Storage <i>Dr. Mario Wipki</i>
09:00	# 510	Geologic Carbon Storage at a One Million Tonne Demonstration Project: Lessons Learned from the Illinois Basin – Decatur Project, USA <i>Dr. Sallie E Greenberg</i>
09:15	# 1096	The Plains CO2 reduction partnership: developing technologies for ccs deployment in central North America <i>Mr. Edward Steadman</i>
09:30	# 3157	Large Pilot Scale Testing of Linde/BASF Post-Combustion CO2 Capture Technology at the Abbott Coal-Fired Power Plant, Illinois USA <i>Sallie E Greenberg</i>
09:45	# 128	Evaluation of CO2 storage potential on the Norwegian Continental Shelf <i>Mrs. Eva Halland</i>

**Wednesday - Session 8**  
**T22.8 - Carbon capture and storage – From reservoir through the full value chain**  
**Westin - Marco Polo**

10:30–12:00

TIME	PAPER #	PAPER TITLE & AUTHOR
10:30	# 2411	The importance of understanding geochemical baselines for CCS monitoring <i>Ms. Salvatore Lombardi</i>
10:45	# 4493	The Bongwana Natural CO2 Release <i>Mr. Nigel Hicks</i>
11:00	# 2397	The natural CO2 leaking laboratory offshore Panarea Island, Italy <i>Mr. Salvatore Lombardi</i>



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11:15	# 2405	The development and application of GasPro pCO <sub>2</sub> sensors for CCS monitoring <b>Ms. Sabina Bigi</b>
11:30	# 3497	Challenges and Analytic Opportunities Associated with the Concept of Net Carbon Negative Oil <b>Ms. Sarah Forbes</b>
11:45	# 5275	Monetized Leakage Risk of Geologic CO <sub>2</sub> Storage and the Role of Secondary Trapping in Intervening Stratigraphic Layers <b>Prof. Jeffrey Bielicki</b>

## Wednesday - Session 9 T22.9 - Geothermal Energy Westin - Marco Polo

14:00–15:30

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 3456	Geothermal resource assessment of the St. Lawrence Lowlands sedimentary basin, Québec, Canada <b>Dr. Michel Malo</b>
14:15	# 2322	Application Effect of Microtremor Survey Method in the Exploration of Geothermal Resource <b>Prof. Peifen Xu</b>
14:30	# 1933	Geothermal heat from generated geothermal energy systems (GeneSys) <b>Dr. Peter Gerling</b>
14:45	# 4247	Optimally Extracting Geothermal Heat from Sedimentary Basins Using Carbon Dioxide <b>Prof. Jeffrey Bielicki</b>
15:00	# 3826	Preliminary remote sensing analyses of the Alid Volcanic Geothermal District (ERITREA) <b>Prof. Antonio Galgalo</b>
15:15	# 1675	A new technique for reactive transport modelling in carbonate reservoirs utilized for CO <sub>2</sub> sequestration <b>Dr. Tina Roberts-Ashby</b>

## Wednesday - Session 7 T25.7 - Critical Metals in Intracontinental Geodynamic Settings Westin - Victoria & Alfred

08:00–10:00

TIME	PAPER #	PAPER TITLE & AUTHOR
08:00	# 3709	The Sn, Nb, Ta, F (REE, U, Th) world class deposit and the massive cryolite deposit Associated with the albite-enriched facies of the Madeira A-type granite, Pitinga, Amazonas State, Brazil. <b>Dr. Artur Bastos Neto</b>
08:15	# 2751	Baddeleyite from AR to PZ time in basite and carbonatite deposits from the Arctic region on the Fennoscandian Shield: U-Pb (ID-TIMS) and LA-ICP-MS data <b>Dr. Tamara Bayanova</b>
08:30	# 2373	REE mineralization Associated with Fe-Cu-(REE) deposits in the southwestern Yangtze Block, southern China and northern Vietnam <b>Prof. Mei Fu Zhou</b>
08:45	# 574	REE mineralization in the Eastern Dharwar Craton at Mincheri, Raichur District, Karnataka, India <b>Mr. Laxminandan Deori</b>
09:00	# 460	Geology and genesis of pegmatite-hosted REE–Y–Nb mineralization in Sausar Mobile Belt, Central India <b>Dr. Rajkumar Meshram</b>
09:15	# 2107	Developments and trends in the availability of high-tech metals with a special focus on the German situation <b>Dr. Volker Steinbach</b>
09:30	# 4283	Local controls on mineral transformations: replacement of (Y-Nb-REE)-rich titanite by rutile <b>Dr. Barbara Etschmann</b>
09:45	# 3187	Techniques used to determine rare earth elements (REE's) in coal fly ash generated from three different power stations in South Africa <b>Mr. Arnold Ripfumelo Matiane</b>

## Wednesday - Session 10 T27.10 - The Crustal Gold Cycle (jointly sponsored by SEG and SGA) MR 1.41 - 1.42

16:00–17:45

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 1268	Geodynamic conditions of formation of large-scale gold mineralization in the Siberian craton margin. <b>Prof. Nikolay Goryachev</b>
16:30	# 3075	The Crustal Gold Cycle <b>Prof. Hartwig Frimmel</b>
16:45	# 336	Fluid inclusion studies of shear – controlled gold mineralization of G.R.Halli area, Chitradurga Schist belt, Dharwar Craton. <b>Dr. Govindappa Gopalakrishna</b>
17:00	# 458	Fluid inclusion studies on auriferous quartz veins of Kudrekonda-Palavanahalli area Shimoga Schist belt, Dharwar craton India: inferences on the nature of hydrothermal fluid during mineralization <b>Ms. Nimmy K.c / Mrs. Smitha Joseph / Mr. Girish Kumar Mayachar</b>
17:15	# 4954	Genesis of Gold Mineralization in Kundarkocha Gold Deposit, Singhbhum Craton, Eastern India: Evidences from Host Rock Geochemistry <b>Dr. Venkatesh Akella</b>
17:30	# 2081	Gold deposits in the Colombian Amazonia and some of their social-environmental implications <b>Geologist Zeze Amaya Perea</b>


**Wednesday - Session 7**
**08:00–10:00**
**T28.7 - Carbonate Sedimentology / Tidal Processes and Products: From Tides to Rock Record**
**MR 1.41 - 1.42**

TIME	PAPER #	PAPER TITLE & AUTHOR
08:00	# 2811	Sedimentary Model and Reservoir Distribution of Cambrian Evaporite-Carbonate Paragenesis in the Sichuan Basin, Southwest China <b>Dr. Anna Xu</b>
08:15	# 2818	Characteristics of hydrothermal fluids and their influence on the Lower Paleozoic carbonate reservoirs in the Tarim Basin, China <b>Dr. wei liu</b>
08:30	# 5505	Tidal Rhythmites: What, Why, How and Where? <b>Dr. Kenneth Eriksson (KEYNOTE SPEAKER)</b>
09:00	# 278	Controls on saltmarsh stratigraphy and evolution, northwest Ireland <b>Prof. Jasper Knight</b>
09:15	# 3738	Mesoproterozoic tidalites from southern part of Lalsot Basin, North Delhi Fold Belt, Rajasthan, India <b>Dr. Biplab Bhattacharya</b>
09:30	# 1243	Early diagenetic geochemical homogenization of fine-grained carbonate sediments <b>Prof. Adrian Immenhauser (KEYNOTE SPEAKER)</b>

**Wednesday - Session 8**
**10:30–12:00**
**T28.8 - Climatic controls on sedimentary systems and processes**
**MR 1.41 - 1.42**

TIME	PAPER #	PAPER TITLE & AUTHOR
10:30	# 4270	High-resolution hydroclimate of Southeastern Africa: A 1.3 million record of lake level variability from Lake Malawi (Nysasa) Scientific Drill Core <b>Dr. Christopher Scholz</b>
10:45	# 1897	Climatic induced shift in rainfall zones preserved in Kalahari salt pans <b>Ms. Irka Schüller</b>
11:00	# 771	Glaciotectionic complexes in the central Anti-Atlas (Morocco): implications regarding the end-Ordovician ice-margin dynamics <b>Dr. Pierre Dietrich</b>
11:15	# 4831	Holocene climate records from lake sediments in India: assessment of coherence across climate and latitudinal zones <b>Dr. Sampat Tandon</b>
11:30	# 5278	Land-ocean linkages of environmental change in the late Quaternary Bering Sea <b>Prof. Dr. Bernhard Diekmann</b>

**Wednesday - Session 9**
**14:00–15:30**
**T28.9 - Climatic controls on sedimentary systems and processes**
**MR 1.41 - 1.42**

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 770	Anatomy of a deglacial sequence: the example of the Upper Pleistocene – Holocene of the St. Lawrence North Shore (Québec, Canada) <b>Dr. Pierre Dietrich</b>
14:15	# 1435	Geochemical provenance of Tertiary sediments in the North-Eastern India: understanding tectonic uplift and weathering in the Himalayas <b>Dr. Neeraj Awasthi</b>
14:30	# 383	Palaeoclimate and Depositional Environment of Sediments from Eastern part of Satpura Gondwana Basin, Central India <b>Dr. Manjusha Mahajan</b>
14:45	# 2609	Sequence Stratigraphic Interpretation of Terminal Cenozoic Succession of Kutch (Sandhan Formation), Western India <b>Mr. Shubhendu Shekhar</b>
15:00	# 2324	Carbon sequestration capacity of naturally reintroduced temperate eelgrass meadows. <b>Ms. Emilia Jankowska</b>
15:15	# 3959	Coastal upwelling near the western margin of the Siberia in the late Cryogenian: phosphatic stromatolite, marine loess and correlation of transitional Cryogenian-Ediacaran strata <b>Dr. Julius Sovetov</b>

**Wednesday - Session 7**
**08:00–10:00**
**T29.7 - Coastal tectonics and sea level change**
**Hall 4B3**

TIME	PAPER #	PAPER TITLE & AUTHOR
08:00	# 1446	Active coastal thrusting and folding, and uplift rate of the Sahel Anticline and Zemmouri earthquake area (Tell Atlas, Algeria) <b>Dr. Said Maouche</b>
08:15	# 3261	Coastal large earthquakes and evidence for paleotsunami deposits along the Mediterranean coast of Egypt <b>Prof. Mustapha Meghraoui</b>
08:30	# 361	Marginal marine depositional environment of Mahadek Formation: Cretaceous palaeogeography of the southern part of the Meghalaya plateau <b>Mr. Apoorve Bhardwaj</b>
08:45	# 1174	High Resolution Magnetic Survey of the Marmaris Bay, SW Turkey <b>Mr. Denizhan Vardar</b>
09:00	# 5119	Coastal tectonics of west Luzon, Philippines: Clues from thorium-230 ages of variably uplifted coral terraces <b>Ms. Kathrine Maxwell</b>



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09:15 # 4646 Early Cambrian sea-level changes: A Scandinavian perspective  
*Dr. Arne Thorshøj Nielsen*

## Wednesday - Session 8

10:30–12:00

**T29.8 - Basin analysis and petroleum exploration offshore Brazil and the conjugate margins in Angola, Namibia and South Africa**  
Hall 4B3

TIME	PAPER #	PAPER TITLE & AUTHOR
10:30	# 9	Gravity Tectonics in Western African Passive Continental Margin in Drift Stage and its Implication in Petroleum Exploration <i>Prof. Shuping Chen (KEYNOTE SPEAKER)</i>
11:00	# 2846	Petrophysical properties of Eocene carbonates in the northern Arabian platform: Insights into depositional environment and diagenetic processes <i>Dr. Mimonitu Opuwari</i>
11:15	# 2062	The southern Brazilian and West African margins: drilling results and exploratory perspectives <i>Dr. Webster Mohriak</i>
11:30	# 2995	Petroleum Systems of West Africa Salt Basins: A Review <i>Mr. Philippe Montagnier</i>
11:45	# 3096	Integrated approach to salt basin exploration <i>Mr. Bjørn Albert Rasmussen</i>

## Wednesday - Session 9

14:00–15:30

**T29.9 - Basin analysis and petroleum exploration offshore Brazil and the conjugate margins in Angola, Namibia and South Africa**  
Hall 4B3

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 5043	Orogenic structural inheritance and rifted passive margin formation <i>Prof. Ritske S. Huisman</i>
14:15	# 3705	Kinematics and Tectonic Significance of the Skeleton Coast Dyke Swarm, Kaoko Belt, North-west Namibia <i>Mr. Michael McMaster</i>
14:30	# 4924	Mantle density inhomogeneities beneath Bay of Bengal <i>Dr. Chandra Prakash Dubey / Dr. Virendra Mani Tiwari</i>
14:45	# 5023	Rifted Continental Margins: The Case for Depth-Dependent Extension <i>Prof. Ritske S. Huisman</i>
15:00	# 5134	Correlations between the basement geology of Florianópolis to Vitoria coastline (Brazil) and Swakopmund (Namibia) to Luanda (Angola) coastline <i>Dr. Julio Almeida</i>
15:15	# 5171	Parnaíba Basin: one of the great interior synclines of Western Gondwana <i>Dr. Renata S. Schmitt</i>

## Wednesday - Session 7

08:00–10:00

**T30.7 - Geodynamic and metallogenic processes in the Tianshan orogen and adjacent areas, Central Asia**  
Auditorium 1

TIME	PAPER #	PAPER TITLE & AUTHOR
08:00	# 5560	Geodynamic reconstruction and metallogeny of the Tien Shan, Uzbekistan <i>Prof. Reimar Seltmann (KEYNOTE SPEAKER)</i>
08:30	# 289	Neoproterozoic diamictites-bearing strata in the Tarim and Yili Blocks and their constraints on the Precambrian evolution of microcontinents in the Central Asian Orogenic Belt <i>Dr. Wenbin Zhu</i>
08:45	# 602	The Silurian- Carboniferous in the north and south of Karamaili tectonic zone (Xinjiang): Tectono- Sedimentation <i>Dr. Lei Zhao</i>
09:00	# 607	Determination of the early Paleozoic granite in Zhifang area, East Junggar, Xinjiang, NW China and its geological implications <i>Dr. Qinqin Xu</i>
09:15	# 739	Ancient continents among the accretionary complexes of the Central Asia Orogenic Belt: in situ Os isotope evidence <i>Dr. Kuo-Lung Wang</i>
09:30	# 2643	The magmatic conditions and geodynamic setting for the Carboniferous volcanic eruption type iron deposits in West Tianshan, China <i>Dr. Zhongping Ma</i>
09:45	# 3300	Relationship of Tarim Craton to Central Asian Orogenic Belt: insights from Devonian intrusions in northern margin of Tarim Craton, China <i>Dr. Qie Qin</i>

## Wednesday - Session 7

08:00–10:00

**T30.7a - Supercontinent Cycles and Global Geodynamics (convened by IGCP 648)**  
Westin - Ballroom East

TIME	PAPER #	PAPER TITLE & AUTHOR
08:00	# 403	Mid-Neoproterozoic magmatic evolution in the northeastern margin of the Indochina block, SW China: Geochronological and petrogenetic constraints and implications for Gondwana assembly <i>Mr. Xuexiang Qi</i>
08:15	# 487	Palaeomagnetism of dykes from southwest coast of India: Implication for India-Madagascar pre-drift configuration <i>Dr. Mathew Joseph</i>





08:30	# 857	How far does the cryptic Mawson palaeocontinent extend within East Antarctica and was it sourced to form a Columbian cover in the Princess Elizabeth Land? <i>Dr. Evgenii Mikhalskii</i>
08:45	# 1162	Queue tectonics, roundabout tectonics, and the opening and closing of narrow ocean basins <i>Dr. Åke Johansson</i>
09:00	# 1456	A re-evaluation of the Kumta Suture in southwest India and its extension into Madagascar <i>Ms. Sheree Armistead</i>
09:15	# 1771	Hard and fast or soft and slow: rates of crustal reworking and orogenesis in the North Atlantic Region <i>Dr. Christopher Spencer</i>
09:30	# 2501	U-Th-Pb and Hf isotopic studies of zircon from the West Congo Belt of NW Angola and the adjacent igneous basement <i>Mr. Andreas Gärtner</i>
09:45	# 2518	From Rodinia to Pangea: Geologic and isotopic evidence for an entire supercontinent cycle in the Chiapas Massif Complex, Southern Mexico <i>Dr. Bodo Weber</i>

### Wednesday - Session 7

08:00–10:00

### T30.7b - The dynamic Earth and its Kimberlite, Cratonic Mantle and Diamond record through time Westin - Ballroom West

TIME	PAPER #	PAPER TITLE & AUTHOR
08:00	# 1985	How deep (and hot) is a diamond? <i>Prof. Paolo Nimis (KEYNOTE SPEAKER)</i>
08:30	# 3267	The source of methane-bearing diamond fluids: C-N isotope and trace element constraints from Zimbabwe diamonds <i>Dr. Karen Smit</i>
08:45	# 4094	Density structure of the cratonic mantle in Siberia, correlations with mantle petrology and kimberlite distribution <i>Prof. Irina Artemieva</i>
09:00	# 3625	Early Archean onset of plate tectonics suggested by oldest confirmed diamonds – evidence from the Witwatersrand <i>Dr. Katie Smart</i>
09:15	# 1716	Diamond Tectonics and Geotectonics - How do they intersect in the Archean <i>Dr. Herwart Helmstaedt (KEYNOTE SPEAKER)</i>
09:45	# 352	Dwyka-age diamondiferous eskers in the Lichtenburg/Ventersdorp diamond fields, North West Province, South Africa. <i>Dr. Michiel Cornelis Jan De Wit</i>

### Wednesday - Session 8

10:30–12:00

### T30.8 - Geodynamic and metallogenic processes in the Tianshan orogen and adjacent areas, Central Asia Auditorium 1

TIME	PAPER #	PAPER TITLE & AUTHOR
10:30	# 849	Geochronology of Detrital Zircons from Schist in Kyrgyz South Tianshan: Evidence for the Provenance of Metamorphic Sediments in the Accretionary Complex <i>Dr. Bo Chen</i>
10:45	# 1027	Crustal growth and reworking of the southeastern Central Asian Orogenic Belt during late Paleozoic: Evidence from the magmatism in central Inner Mongolia, China <i>Dr. Jianfeng Liu</i>
11:00	# 1117	The timing of the closure of southern Tianshan Paleozoic Ocean: evidence from detrital zircon dating in Northwestern Tarim margin <i>Prof. Jinyi Li</i>
11:15	# 1173	A geotraverse across two paleo-subduction zones in Tien Shan, Tajikistan <i>Dr. Dmitry Konopelko</i>
11:30	# 1245	Zircon U-Pb ages and Hf isotopic characteristics of Paleozoic granitoid intrusions from the Baluntai Region, Central Chinese Tianshan: Implications for Tectonic Evolution and Continental Growth <i>Dr. He Huang</i>
11:45	# 1290	Sedimentological constraints on the final time of various terranes amalgamation in the Northern Xinjiang, China <i>Dr. Kai Weng</i>

### Wednesday - Session 8

10:30–12:00

### T30.8a - Supercontinent Cycles and Global Geodynamics (convened by IGCP 648) Westin - Ballroom East

TIME	PAPER #	PAPER TITLE & AUTHOR
10:30	# 2647	Itinerant Siberia during the Neoproterozoic <i>Ms. Nadezhda Priyatkina</i>
10:45	# 3569	Ordovician fragmentation of Gondwana: Integrated magmatic – sedimentary – structural record of the Variscan domain <i>Prof. Dominique Chardon</i>
11:00	# 3751	Neoproterozoic Supercontinent Kenorland: geological and paleomagnetic data <i>Dr. Aleksan / Dr. Slabunov</i>
11:15	# 3870	A folded Himalayan-style collisional-orogen model for the origin of the Limpopo belt in South Africa: Implications for reconstructing an amalgamated Archean craton <i>Prof. An Yin</i>
11:30	# 4624	Not so subtle constraints from the Phanerozoic on Precambrian plate reconstructions <i>Dr. Bruce Eglington</i>



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11:45	# 4914	Extent and character of a Paleoproterozoic cratonic-scale lower crustal domain in Arctic Laurentia: implications for tectonic processes during assembly of Nuna <i>Ms. Edith Martel</i>
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## Wednesday - Session 8 T30.8b - The dynamic earth and its Kimberlite, Cratonic mantle and diamond record through time Westin - Ballroom West 10:30–12:00

TIME	PAPER #	PAPER TITLE & AUTHOR
10:30	# 3984	Illuminating craton architecture using deep-probing electromagnetic studies <i>Prof. Alan Jones (KEYNOTE SPEAKER)</i>
11:00	# 4081	Kyanite-bearing eclogite xenoliths from the Udachnaya kimberlites, Siberia <i>Mrs. Ioana-Bogdana RADU</i>
11:15	# 1445	Mapping Off-Craton Subcontinental Mantle Lithosphere Growth and Destruction in the Southwest United States Using Os isotopes <i>Dr. Alan Brandon</i>
11:30	# 1650	Water in the cratonic mantle lithosphere <i>Dr. Anne Peslier (KEYNOTE SPEAKER)</i>

## Wednesday - Session 9 T30.9 - Geodynamic and metallogenic processes in the Tianshan orogen and adjacent areas, Central Asia Auditorium 1 14:00–15:30

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 1315	Neoproterozoic magmatism and its tectonic significance in northern Altyn Tagh tectonic belt <i>Mr. XianFeng Zha</i>
14:15	# 1320	Cenozoic deformation in coupling regions on both sides of Tian Shan and its constraint on the mineralization of sandstone-type Uranium deposits <i>Dr. Zhengle Chen</i>
14:30	# 1458	Late Paleozoic mesoscopic tectonic deformation of the South Tian Shan <i>Dr. Jiang Liu</i>
14:45	# 1465	Research on Metallogenic System of Gold and Copper Deposits in the Middle Section of Eastern Tianshan, Xinjiang, China <i>Prof. Bin Cui</i>
15:00	# 2513	End-Permian to mid-Triassic terminal orogeny in the Beishan orogenic collage, NW China <i>Prof. Wenjiao Xiao / Dr. Songjian Ao</i>
15:15	# 2564	Petrological Evidence for Mantle Plume of Later Carboniferous-Permian in the Northern Bogda Mountains, Xinjiang, NW China <i>Dr. Xiaohu Zhou</i>

## Wednesday - Session 9 T30.9a - Supercontinent Cycles and Global Geodynamics (convened by IGCP 648) Westin - Ballroom East 14:00–15:30

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 5422	Palaeoproterozoic palaeomagnetism and the geodynamic setting of the Indian shield within the early supercontinental reconstructions <i>Dr. Radhakrishna Tallavajhala</i>
14:15	# 5424	The Ribeira belt in the Context of Supercontinent Cycles <i>Dr. Monica Heilbron</i>
14:30	# 5494	The life cycles of mantle plumes and superplumes: observations, modelling, and geodynamic implications <i>Prof. Zheng-Xiang Li</i>
14:45	# 4630	Animated illustration of plate reconstructions which effectively utilise digital information such as lithostratigraphy, geochronology and ore deposits to facilitate spatial assessment of crustal evolution <i>Dr. Bruce Eglinton (KEYNOTE SPEAKER)</i>

## Wednesday - Session 9 T30.9b - The dynamic earth and its Kimberlite, Cratonic mantle and diamond record through time Westin - Ballroom West 14:00–15:30

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 1998	Hydrous silicic fluid films around solid inclusions in gem-quality diamonds <i>Prof. Paolo Nimis</i>
14:15	# 4083	Density structure of the cratonic mantle in southern Africa, kimberlite distribution, mantle velocities, Moho sharpness, and dynamic topography <i>Prof. Irina ARTEMIEVA</i>
14:30	# 5370	Timing of the Siberian craton kimberlite magmatism: evidences from the U-Pb dating of kimberlitic zircon <i>Dr. Vladimir Malkovets</i>
14:45	# 3924	India's fast Mesozoic drift linked to continental mantle lithosphere delamination: New insights from (U-Th)/He thermochronology of Dharwar craton kimberlites <i>Prof. Sebastian Tappe</i>



15:00	# 596	Kimberlites from the Kundelungu Plateau (Southeast Democratic Republic of Congo): Age and Implication for regional tectonism and mineralisation <i>Prof RuananzaToto Lubala</i>
15:15	# 4556	A hidden mantle reservoir in the continental lithosphere? Evidence from Hf-Sr-Nd-Pb isotopes in megacrysts and kimberlites <i>Dr. Philip Janney</i>

**Wednesday - Session 10** **16:00–17:45**  
**T30.10 - Geodynamic and metallogenic processes in the Tianshan orogen and adjacent areas, Central Asia**  
**Auditorium 1**

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 1521	Syn-collisional or Post-collisional belt? In the view from the structure of the Middle Central Tianshan belt <i>Prof. Wei Lin</i>
16:15	# 1809	Structural and metamorphic constraints on Barrovian and high-temperature domains in the Chinese Altai, central Asia: implications for crustal thickening and doming in accretionary orogens <i>Dr. YINGDE JIANG</i>
16:30	# 1940	The early Paleozoic tectonic evolution of the Russian Altai: implications from meta-sedimentary complexes in the Charysh-Terekta-Ulagan-Sayan suture zone <i>Dr. Min Sun</i>
16:45	# 1945	Evolution of the Amu Darya Basin: interplay between tectonics and inherited structures <i>Dr. Marie-Francoise Brunet</i>
17:00	# 2207	Nd-Hf isotopic mapping of granitoid plutons in the southwestern Central Asian Orogenic Belt and implications for continental architecture and growth <i>Prof. Tao Wang</i>
17:15	# 2283	Ore-forming ages of iron ore deposits in the western Tianshan Mountain, NW China <i>Dr. Zuoheng Zhang</i>
17:30	# 2425	Mesoproterozoic continental arc magmatism and crustal growth in the eastern Central Tianshan Arc Terrane of the southern Central Asian Orogenic Belt <i>Dr. Zhenyu He</i>

**Wednesday - Session 10** **16:00–17:45**  
**T30.10a - Tectonics of Tethys with an emphasis on the geology of Turkey and Iran, and comparison with other Tethyan domains**  
**Westin - Ballroom East**

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 1081	The Tethys history in Southeast Iran: a tale from Makran and Sistan. <i>Prof. Jean-Pierre Burg (KEYNOTE SPEAKER)</i>
16:30	# 1166	Distributed neotectonic deformations in Anatolia, Turkey obtained from paleomagnetic analysis <i>Prof. Orhan Tatar</i>
16:45	# 1517	An HP-UHP orogenic belt or an extensional zone? In the view from the South Sulu Massif, Eastern China <i>Prof. Wei Lin</i>
17:00	# 1529	The structural characteristics of the northern part of Adana Basin, southern Turkey <i>Dr. Halil Yusufoglu</i>
17:15	# 2236	How to define a suture: the Izmir-Ankara suture in the central Turkey <i>Prof. Aral Okay</i>

**Wednesday - Session 10** **16:00–17:45**  
**T30.10b - The dynamic earth and its Kimberlite, Cratonic mantle and diamond record through time**  
**Westin - Ballroom West**

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 2265	Trace element variations across olivine record the evolution of kimberlite melts: Case studies from the Kimberley kimberlites (South Africa) <i>Dr. Andrea Giuliani (KEYNOTE SPEAKER)</i>
16:30	# 3412	Classification of Diamond Source Rocks in the Wajrakarur Kimberlite Field of Southern India: A Mineral Genetic Approach <i>Dr. Ashish Dongre</i>
16:45	# 220	Petrology and Geochemistry of Chintalapalle lamproite, Eastern Dharwar Craton, Southern India <i>Mr. Praveer Pankaj</i>
17:00	# 2927	Chromium-bearing phases in the Earth's mantle: Evidence from experiments at 10-24 GPa and 1600°C <i>Prof. Andrey Bobrov</i>

**Wednesday - Session 10** **16:00–17:45**  
**T31.10 - Scientific Drilling on Continents and Oceans**  
**Hall 4B3**

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 2746	International Continental Scientific Drilling Program: Accomplishments, developments, strategies <i>Dr. Uli Harms</i>
16:15	# 4371	Development, properties and drilling test of high performance Φ147mm aluminum alloy drill pipe <i>Dr. Baochang Liu</i>



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16:30	# 992	In-depth research of geology is inseparable from the support of advanced drilling technology <b>Prof. Zhang Xiaoxi / Associate Prof. Hui Zhang</b>
16:45	# 4347	Scientific drilling project of MK-2 well for gas hydrate exploration in Mohe basin of China <b>Dr. Rui Jia</b>
17:00	# 2034	Mylonitic roots of the Scandinavian Caledonides revealed by deep drilling <b>Dr. Uli Harms</b>
17:15	# 3775	Online Monitoring of Drilling Mud Gas in ICDP and IODP scientific drilling projects <b>Dr. Thomas Wiersberg</b>
17:30	# 4254	The Colorado Plateau coring project (CPCP): exportable chronostratigraphic context for Triassic-Jurassic Earth System Events and Processes <b>Dr. Paul Olsen</b>

## Wednesday - Session 9 T33.9 - Crustal Evolution in the Indian Peninsula: Special Reference to Central Indian Craton MR 1.62

14:00–15:30

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 3350	Geochemical characterisation, Sm-Nd and U-Pb zircon chronology of the Tirodi Gneissic Complex (TGC), Central Indian Tectonic Zone (CITZ): constraints on Proterozoic crustal evolution <b>Dr. Meraj Alam</b>
14:30	# 337	Neo-Proterozoic alkali mafic magmatism in Betul belt, Central Indian Tectonic Zone <b>Dr. Mohamed Shareef</b>
14:45	# 545	Tectonothermal evolution of Meghalaya Gneissic Complex, NE India: a mimic of Chottanagpur Gneissic Complex during Grenvillian orogeny <b>Mr. Susobhan Neogi</b>
15:00	# 524	U-Pb zircon ages from the Aravalli Craton and Vindhyan Supergroup sediments, Rajasthan – discussion of tectonic implications <b>Dr. Sojen Joy</b>
15:15	# 1575	Evidence for mid oceanic ridge basaltic (MORB) setting of mafic rocks in Archaean Amgaon greenstone belt of western Bastar craton, central India <b>Prof. Deepak Malpe</b>

## Wednesday - Session 10 T33.10 - Crustal Evolution in the Indian Peninsula: Special Reference to Central Indian Craton MR 1.62

16:00–17:45

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 678	Corona texture in megacrystic leucogabbro, Western Bastar Craton, Central India: its petrogenetic significance <b>Mr. Harbans Singh</b>
16:15	# 3340	Late Archaean Granitoid Magmatism: an insight to SW Bundelkhand Craton <b>Ms. Joyeeta Bhattacharjee</b>
16:30	# 748	Neoproterozoic transpression and polyphase fault reactivation in Gavilgarh-Tan shear zone: Implications for the tectonic evolution of central Indian craton <b>Prof. Anupam Chattopadhyay</b>
16:45	# 2330	Zircon U-Pb-Hf isotopic data from syntectonic granites of Aravalli Fold Belt, India: Age of a Palaeoproterozoic accretionary orogeny <b>Ms. Krishnapriya Basak</b>
17:00	# 1552	Paleoproterozoic extension of the east Dharwar craton and its imprint on the Papaghni sub-basin, India. <b>Dr. Sarbani Patranabis-Deb</b>
17:15	# 3417	Provenance of sediments in the Neoproterozoic Marwar Basin, western India <b>Mr. Bivin Geo George</b>
17:30	# 3329	Paleoproterozoic felsic magmatism from Mahakoshal Supracrustal Belt, CITZ: Constraints from U-Pb geochronology, whole rock geochemistry and Sm-Nd isotopes <b>Mr. Bhupendra Singh Yadav</b>

## Wednesday - Session 7 T36.7 - Granites Westin - Diaz & Da Gama

08:00–10:00

TIME	PAPER #	PAPER TITLE & AUTHOR
08:00	# 4680	Petrogenesis of high Sr/Y leucogranulites in the Liangcheng area, central-northern margin of the North China Craton <b>Ms. Luojuan Wang</b>
08:15	# 3535	Late Archaean alkali syenite pluton from Koppal, Karnataka State, South India: an emplacement during the accretion of the Dharwar Batholith <b>Dr. Kummera David</b>
08:30	# 3920	Enclaves of diverse origin in Punugodu granite pluton, Prakasam District, Andhra Pradesh, India: Implications for source rock composition and crustal contamination <b>Mr. Chintapally Narshimha</b>
08:45	# 1997	Petrology of the Koedoesfontein Complex in the Vredefort Dome, South Africa <b>Mr. Ricart Boneschans</b>
09:00	# 546	Proterozoic, Paleozoic and Mesozoic rapakivi granites in China central orogenic system and their implications <b>Prof. Xiaoxia Wang</b>





09:15	# 4898	Geochemical Attributes and tectono-magmatic evolution of Norite, Quartz-mangerite, charnockite and Porphyritic Granite of South Khasi & Kyllang Plutons, West Khasi Hills District, North East India <b>Mr. Medard Khonglah</b>
09:30	# 184	Problems of intrusive magmatism in Saur region of Eastern Kazakhstan <b>Mrs. Elena Jes</b>
09:45	# 2869	Petrology of Igneous Intrusive Rocks in NE Takestan-Iran <b>Dr. Mohammad Foudazi</b>

**Wednesday - Session 8**  
**T36.8 - Granites**  
**Westin - Diaz & Da Gama**

**10:30–12:00**

TIME	PAPER #	PAPER TITLE & AUTHOR
10:30	# 5068	Continental Style Calc-alkaline Plutonism in an Oceanic Island Arc: the Central Aleutian Hidden Bay Pluton <b>Prof. Suzanne Kay</b>
10:45	# 4408	Early Cretaceous Magma Mingling in Xiaocuo, Southeastern China continental margin <b>Mrs. Liyun Zhou</b>
11:00	# 4501	Phase petrology, geochemistry and U-Pb SHRIMP zircon chronology of Myliem granitoids and microgranular enclaves from Meghalaya plateau, Northeast India: Evidence of synchronous crystallization, magma-mixing and mingling during Pan-African thermal orogeny <b>Prof. Santosh Kumar</b>
11:15	# 86	Evidence for hybridization in the Tynong Province granitoids, Lachlan Orogen, Eastern Australia <b>Dr. Kamal Regmi</b>
11:30	# 5306	Heterogeneous zircon inheritance in Late Jurassic granitic plutons within the Jiuling composite batholith, South China <b>Dr. Di Wang</b>

**Wednesday - Session 9**  
**T36.9 - Subduction volcanism in modern systems / Magmatism - Palaeovolcanism in subduction and collisional zones**  
**Westin - Diaz & Da Gama**

**14:00–15:30**

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 4563	Augite and enstatite pyroxene standards for SIMS oxygen isotope analysis and their application to Merapi volcano, Sunda arc, Indonesia <b>Dr. Frances Deegan</b>
14:15	# 4756	Reconstructing the plumbing system of Krakatau volcano <b>Prof. Valentin Troll</b>
14:30	# 4184	Basement controls over the composition of Andean arc magmas: Hf isotopic constraints from Central Chile (~33°-34.5°S) <b>Dr. Marcia Muñoz</b>
14:45	# 4403	Patchy Zoned Clinopyroxenes of Pyroxenite Enclaves Observed in Pyroclastic Deposits: Implications of Decompression during Ascend of Magma <b>Mr. Efe Akkas</b>
15:00	# 4156	The late Mesozoic, potash-rich Volcanic Rocks in Late Mesozoic of North Yangtze and Dabie Orogenic Belt: Have Nothing to Do with Discussion on Collisional Orogenic Cycling, but Reflect Subduction Polarity and Mantle Features of the Ancient Orogenic Belt <b>Dr. Shiming Wang / Prof. Changqian Ma / Dr. Ying Yang</b>
15:15	# 282	Signatures of Neoproterozoic island arc tholeiites from the central-western part of Nellore Schist belt, Pamuru-udayagiri area, Andhra Pradesh, India

**Wednesday - Session 10**  
**T36.10 - Magmatism - Settings, Compositions and Processes**  
**Westin - Diaz & Da Gama**

**16:00–17:45**

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 4497	The Aheimir Volcanic Suite (AVS) a bimodal Ediacaran Sequence from the northernmost Arabian Nubian Shield, Wadi Araba, SW Jordan: Age, Geochemistry and Petrogenesis. <b>Dr. Ghaleb Jarrar</b>
16:15	# 485	Geochemistry and tectonic settings of metavolcanics of Chitradurga schist belt, Karnataka, India <b>Mr. M M Korakoppa</b>
16:30	# 4687	Alkaline and Tholeiitic magmatism in the Buem Structural unit of the Pan-Africa Dahomeyide orogenic belt, Southeastern Ghana. <b>Mr. Daniel Kwayisi</b>

**Wednesday - Session 7**  
**T39.7 - Stromatolites through time: archives of microbe-sediment interaction**  
**Westin - Sir Francis Drake**

**08:00–10:00**

TIME	PAPER #	PAPER TITLE & AUTHOR
08:00	# 3889	Morphological and mineralogical biosignatures of anoxygenic photosynthetic benthic microbial communities <b>Dr. Tanja Bosak (KEYNOTE SPEAKER)</b>
08:30	# 1594	Geobiology of an early Archean microbial mat facies (Strelley Pool Formation, Western Australia) <b>Dr. Jan-Peter Duda</b>
08:45	# 3387	Preservation of life across ocean anoxic events <b>Prof. Kliti Grice</b>



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09:00	# 4880	Growth, preservation, and biological implications of cusped microbial forms: Mesoproterozoic Dismal Lakes Group, Arctic Canada <b>Dr. Linda Kah</b>
09:15	# 4673	High-resolution trace metal analysis of a stromatolite deposited during the end-Triassic extinction event. <b>Dr. Victoria Petryshyn</b>
09:30	# 1488	The effects of sedimentation on modern microbial mats in Antarctic lakes <b>Dr. Dawn Sumner (KEYNOTE SPEAKER)</b>

## Wednesday - Session 7

08:00–10:00

### T40.7 - Achievements and perspectives in scientific ocean drilling Westin - Seal/Robben

TIME	PAPER #	PAPER TITLE & AUTHOR
08:00	# 655	Drilling the Agulhas Plateau and Transkei Basin to reconstruct the Cretaceous - Paleocene Tectonic and Climatic evolution of the Southern Ocean Basin <b>Dr. Gabriele Uenzelmann-Neben</b>
08:15	# 353	Sedimentary Record and Environmental Implications since the Late Pliocene from the Core CSDP-1 in South Yellow Sea <b>Prof. Xunhua Zhang</b>
08:30	# 3720	A Late Cretaceous mixed-drift system on the Uruguayan Margin: sedimentary and paleoceanographic significance <b>Adam Creaser</b>
08:45	# 2128	Decoupled Southern and Northern Hemisphere processes controlled by the Maritime continent: insights from a continuous Pliocene NW Australian shelf borehole (and decades of previous Ocean Drilling) <b>Dr. Beth Christensen</b>
09:00	# 4058	Sediment input and bottom water trophic level in the East China Sea, in response to glacial/interglacial sea level change and monsoon rainfall intensity. Insights from benthic microcrustaceans (ostracods) and foraminifera at Site U1429 (IODP Expedition 346) <b>Dr. Maria Angela Bassetti</b>
09:15	# 325	Fluid origins, cycling, fluxes, and thermal regimes in subduction zone forearcs <b>Dr. Miriam Kastner</b>
09:30	# 2001	Drilling to the Crust-Mantle Boundary: SloMo Project, Phase 1 <b>Dr. Henry Dick</b>
09:45	# 1710	Lord Howe Rise deep stratigraphic drilling: tectonics, climate and ancient life <b>Prof. Kliti Grice</b>

## Wednesday - Session 8

10:30–12:00

### T40.8 - Deep-water circulation: processes & products Westin - Seal/Robben

TIME	PAPER #	PAPER TITLE & AUTHOR
10:30	# 346	Transition from the Cretaceous ocean to Cenozoic circulation in the western South Atlantic - a twofold reconstruction <b>Dr. Gabriele Uenzelmann-Neben (KEYNOTE SPEAKER)</b>
11:00	# 1316	Zambezi continental margin: allocyclic and antecedent controls on sediment transport in the Mozambique Channel <b>Dr. Errol Wiles</b>
11:15	# 347	Evolution of the northern Argentine margin during the Cenozoic controlled by bottom current dynamics and gravitational processes <b>Dr. Gabriele Uenzelmann-Neben</b>
11:30	# 1702	Early history of Mediterranean-Atlantic exchange – new insights from IODP Expedition 339 <b>Prof. Werner E. Piller</b>
11:45	# 4939	Between-hole correlation of sandy and silty contourite beds, Expedition 339, Gulf of Cadiz <b>Dr. Roger Flood</b>

## Wednesday - Session 9

14:00–15:30

### T40.9 - Deep-water circulation: processes & products Westin - Seal/Robben

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 3694	Evidence for Late Miocene Mediterranean overflow from bottom current deposits within the Rifian Corridor (Morocco) <b>Dr. F. Javier Hernández-Molina</b>
14:15	# 3101	Origin of morphological depressions in the Guadalquivir Bank area (Gulf of Cadiz middle slope) <b>Dr. Marga Garcia</b>
14:30	# 401	Cold-water coral mounds and contourite drifts: two chapters of the palaeoceanographic log-book? <b>Prof. David Van Rooij</b>
14:45	# 3507	Large bedforms on contourite terraces: conceptual consequences <b>Dr. F. Javier Hernández-Molina</b>
15:00	# 519	Small-scale contourite deposits in the El Arraiche area, southern Gulf of Cadiz <b>Mr. Thomas Vadorpe</b>
15:15	# 2287	Inferred short-period internal-wave deposits in geological records from cross laminations in deep-water environment <b>Prof. Xiangdong Li</b>

## Wednesday - Session 10

16:00–17:45

### T40.10 - Uncovering the great unknown – mapping the Earth's ocean floor Westin - Seal/Robben

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 342	Contourite drifts as indicators of Cenozoic bottom water intensity in the eastern Agulhas Ridge area, South Atlantic <b>Dr. Gabriele Uenzelmann-Neben</b>



16:15	# 5418	Discrepancies under Water: Marine Geological Information and Semantic Harmonisation for the EMODnet II Project <i>Dr. Kristine Asch</i>
16:30	# 3560	Visiting the Shaka Ridge - a part of the Bouvet hotspot trail <i>Mr. Harald Brekke</i>
16:45	# 1622	Mapping marine minerals in Europe <i>Ms. Maria Judge</i>

### Wednesday - Session 9 14:00–15:30

#### T41.9 - Mineral and energy resources of the Arctic

#### MR 2.64 - 2.66

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 3124	Mineral resources of Alaska <i>Dr. Richard Goldfarb</i>
14:15	# 4341	Metallogeny of Greenland <i>Dr. Jochen Kolb</i>
14:30	# 2637	Epithermal gold in Iceland <i>Ms. Bryndis Robertsdottir</i>
14:45	# 1906	Metallogeny of Arctic Norway <i>Mr. J.S. Sandstad</i>
15:00	# 4919	Resource Assessments in Greenland <i>Dr. Karen Hanghøj</i>
15:15	# 3038	The Circum-Arctic Mineral Resource Project <i>Dr. Rognvald Boyd</i>

### Wednesday - Session 10 16:00–17:45

#### T41.10 - Mineral and energy resources of the Arctic /

#### Advances in Remote Sensing in the Cryosphere for the Polar Regions

#### MR 2.64 - 2.66

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 3286	Russian Arctic shelf mineral resources potential <i>Dr. Svetlana Babaeva</i>
16:15	# 2024	Oil and gas exploration in frontier areas - an arctic update from Greenland <i>Dr. Kristian Grube Jakobsen</i>
16:30	# 2880	Evaluation of satellite remote sensing albedo retrievals over the ablation area of the southwestern Greenland ice sheet <i>Ms. Samiah Moustafa</i>
16:45	# 2133	Glacial Acceleration - Remote-Sensing Observations, Geomathematical Classification and Relevance for Sea-level Change Assessment <i>Prof. Ute Herzfeld</i>
17:15	# 2541	Characteristics of Continental Glacier Surge in NE-Pamir <i>Prof. Xin Yao</i>
17:30	# 5543	The Antarctic and Greenland ice sheet contribution to global sea level rise <i>Andrew Shepherd</i>

### Wednesday - Session 7 08:00–10:00

#### T44.7 - The Dawn of Animals: Cryogenian to Cambrian

#### Reg Foyer 2

TIME	PAPER #	PAPER TITLE & AUTHOR
08:00	# 4255	New Precambrian trace fossils, the end of the Ediacara biota, and the first mass extinction of complex life <i>Dr. Simon Darroch</i>
08:15	# 2523	Beyond the stony veil; reconstructing early trace fossils using Micro-CT analysis, a case study from the Yangtze Gorges area, South China <i>Dr. Michael Meyer</i>
08:30	# 984	Authigenic and early diagenetic minerals as indicators of geomicrobiological processes in shelly fossil preservation and their significance for late Neoproterozoic-early Palaeozoic near-surface environments <i>Mr. Drew Muscente</i>
08:45	# 4728	Studies In Ediacaran Preservation <i>Dr. Marc Laflamme</i>
09:00	# 4911	Improving the Ediacaran geological time scale for the study of oceanic redox history and early animal evolution <i>Prof. Shuhai Xiao (KEYNOTE SPEAKER)</i>
09:30	# 4544	The palaeobiology of Ediacaran rangeomorphs: reproduction, environmental sensitivity and ecological succession <i>Ms. Charlotte Kenchington</i>
09:45	# 5635	Mistaken Point (Ediacaran, Canada): The World's First Precambrian World Heritage Site <i>Prof. Guy Narbonne</i>

### Wednesday - Session 8 10:30–12:00

#### T44.8 - The Dawn of Animals: Cryogenian to Cambrian

#### Reg Foyer 2

TIME	PAPER #	PAPER TITLE & AUTHOR
10:30	# 3374	The Environmental Context of the Cryogenian-Ediacaran Diversification of Metazoa <i>Dr. Douglas Erwin</i>



## Wednesday 31 August

10:45	# 4991	Early diversification of the Cambrian Explosion: Significance of a remote graveyard in the Sirius Pass, North Greenland <b>Dr. David Harper</b>
11:00	# 3642	Onychophorans: a key role in understanding arthropod origins? <b>Prof. Jianni Liu</b>
11:15	# 4405	New advance of Guangweicaris from the Cambrian (Stage 4, Series 2) Guanshan Biota in Kunming, Yunnan, South China <b>St. Yichen Wu</b>
11:30	# 4723	Substrate-related phenotypic variation in the Cambrian Burgess Shale brachiopod <i>Micromitra burgessensis</i> <b>Dr. Timothy Topper</b>
11:45	# 1697	Primary producers and detritivores: Microbial fossils from the lowest Cambrian of South China <b>Prof. Xingliang Zhang</b>

### Wednesday - Session 9 T44.9 - The Dawn of Animals: Cryogenian to Cambrian Reg Foyer 2

14:00–15:30

TIME	PAPER #	PAPER TITLE & AUTHOR
14:15	# 1134	A new locality of the Burgess Shale-type fauna from the Lower Cambrian Shuijingtuo Formation in Changyang, Hubei, South China <b>Dr. Dongjing Fu</b>
14:30	# 2255	The diversity and systematics of early Cambrian lophotrochozoans (the Chengjiang Lagerstätte, China): discoveries and new progress <b>Prof. Zhifei Zhang</b>
14:45	# 4396	New species of Vetulicolians from the Lower Cambrian Guanshan Biota, China <b>St. Jinshu Li</b>
15:00	# 3132	Early sponges and toxic protists: Cryostane, a new biomarker antedating Sturtian Snowball Earth <b>Dr. Jochen Brocks</b>
15:15	# 3579	Evolution of biological innovations in early complex cells <b>Prof. Emmanuelle J. Javaux</b>
14:00	# 1128	Ecology and phylogenetic affinity of the early Cambrian tubular microfossil <i>Megathrix longus</i> <b>Mr. Xiaodong Shang</b>

### Wednesday - Session 10 T44.10 - Origin and diversification of Precambrian eukaryotes Reg Foyer 2

16:00–17:45

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 4276	Origin and diversification of Precambrian eukaryotes: Evidence from Proterozoic successions of India <b>Dr. Mukund Sharma</b>
16:15	# 3358	New record of organic-walled, morphologically distinct microfossils from the late Paleoproterozoic Changcheng Group in the Yanshan Range, North China <b>Ms. Lanyun Miao</b>
16:30	# 2421	Evolutionary trends of the earliest eukaryotes: evidence from the 1.8 Ga Changcheng Group and the 1.7-1.4 Ga Ruyang Group, North China Craton <b>Dr. Heda Agić</b>
16:45	# 720	Unraveling biological information from early single-celled eukaryotes in the Paleo-Mesoproterozoic Ruyang Group, North China <b>Dr. Ke Pang</b>
17:00	# 4705	Decimeter-scale multicellular eukaryotes from the 1.56-billion-year-old Gaoyuzhuang Formation, North China <b>Prof. Maoyan Zhu</b>
17:15	# 1684	Biostratigraphy, chemostratigraphy and kerogen paleothermometry of the Proterozoic Mbuji-Mayi Supergroup (Kasaï, Democratic Republic of Congo) <b>Mr. Blaise Kabamba Baludikay</b>
17:30	# 1012	Biostratigraphic succession of acanthomorphic acritarchs of the Ediacaran Doushantuo Formation at the Yangtze Gorges area and its implication for the global correlation <b>Prof. Pengju Liu</b>

### Wednesday - Session 7 T45.7 - Instrumental, experimental and laboratory-based developments in the Geosciences Westin - Prince Edward/Schappen

08:00–10:00

TIME	PAPER #	PAPER TITLE & AUTHOR
08:00	# 4827	Complex petrophysical investigation of pannonian-miocene shales – preliminary results of acoustic anisotropy measurements <b>Mr. Péter János Koroncz</b>
08:15	# 5501	Three dimensional distribution of metal content in pyrite <b>Dr. Lingli Zhou</b>
08:30	# 4567	Digital Macroscopy in Earth Sciences <b>Mr. Michael Doppler</b>
08:45	# 3541	Geological Applications of Atom Probe Tomography <b>Dr. Ian Holton</b>





09:00	# 1045	STXM-NEXAFS: applying a new technique which helps to unravel the mystery of rock varnish <i>D.S. Macholdt</i>
09:15	# 2041	X-rays for earth science - Adding new dimensions to the analysis of mineralogical samples <i>Dr. Uwe König</i>

### Wednesday - Session 8

10:30–12:00

### T45.8 - Instrumental, experimental and laboratory-based developments in the Geosciences

Westin - Prince Edward/Schappen

TIME	PAPER #	PAPER TITLE & AUTHOR
10:30	# 3670	Synchrotron light applied to ore geology <i>Dr. Bjorn Von Der Heyden</i>
10:45	# 1343	Applications of scanning electron microscopy in Mineral Nanomaterials <i>Dr. Li Chen</i>
11:00	# 2154	The Exploration of Mars With the ChemCam LIBS Instrument and the Curiosity Rover <i>Dr. Nathan Bridges (KEYNOTE SPEAKER)</i>
11:30	# 3321	Laser Ablation Molecular Isotopic Spectroscopy (LAMIS) <i>Dr. Alex Bol'shakov</i>
11:45	# 3136	Scale-Dependent Observations in X-ray CT, Mineralogy and Geomechanics <i>Mr. Thomas Paul</i>

### Wednesday - Session 9

14:00–15:30

### T45.9 - Laser-induced breakdown spectroscopy (LIBS) for the Geosciences

Westin - Prince Edward/Schappen

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 3767	Laser induced breakdown spectroscopy 2D mapping combined with 3D X-ray tomography: first results <i>Dr. Anton Du Plessis</i>
14:15	# 5121	Toward real-time geochemical analysis in the field: Provenance determination and correlation studies of carbonates using handheld LIBS <i>Prof. Richard Hark</i>
14:30	# 2317	An Investigation into the Efficacy of Elemental Distribution Mapping using Hand Held Laser-Induced Breakdown Spectroscopy for the Qualitative Characterisation of Geological Materials <i>Mr. Andrew Somers</i>

### Wednesday - Session 10

16:00–17:45

### T45.10 - Instrumental, experimental and laboratory-based developments in the Geosciences

Westin - Prince Edward/Schappen

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 5081	Handheld LIBS for precious mineral exploration: Prospecting for gems, conflict minerals, and diamond kimberlites <i>Dr. Russell S. Harmon</i>
16:15	# 5239	SmartLab – a new concept of global geological laboratory service <i>Dr. Ferenc Fedor</i>

### Wednesday - Session 7

08:00–10:00

### T47.7 - IGCP 630: Permian and Triassic integrated Stratigraphy and Climatic, Environmental and Biotic Extremes

Reg Foyer 1

TIME	PAPER #	PAPER TITLE & AUTHOR
08:00	# 3725	Earliest Triassic Ephemeral Refuge at Shangsi, China <i>Ms. Amanda Godbold</i>
08:15	# 1272	Olenekian ammonoid and brachiopod successions of the Kamenushka River basin and their environmental conditions based on N- and C-isotope data from the Lower Triassic of South Primorye, Russian Far East <i>Dr. Yuri Zakharov</i>
08:30	# 4000	Cycle-calibrated magnetostratigraphy and time scales for the Early and early-Late Triassic <i>Ms. Yang (Wendy) Zhang</i>
08:45	# 4603	Implications of the stratigraphic results of the Colorado Plateau Coring Project (CPCP): salt vs. plate tectonics vs. eustasy in the Late Triassic Chinle Formation <i>Dr. Paul Olsen</i>
09:00	# 4937	The Colorado Plateau (USA) Coring Project (CPCP): Preliminary Magnetic Polarity Stratigraphy and Rock Magnetic Data From the Continuous Cored Record of Triassic Continental Environmental Change <i>Prof. John Geissman</i>
09:15	# 1979	Evidences of marine regression and Pangaea breakup: Triassic-Jurassic boundary from the Tethyan Salt Range, Pakistan. <i>Mr. Shahid Iqbal</i>
09:30	# 4818	The vegetation changes and terrestrial ecosystem variations across the Triassic-Jurassic transitions in the Sichuan Basin, China: progresses and perspectives <i>Prof. Yongdong Wang</i>



## Wednesday - Session 8

10:30–12:00

**T47.8 - IGCP 630: Permian and Triassic integrated Stratigraphy and Climatic, Environmental and Biotic Extremes / Tethys birth to demise: Stratigraphy, Palaeogeography and Tectonic Evolution**  
Reg Foyer 1

TIME	PAPER #	PAPER TITLE & AUTHOR
10:30	# 3131	Late Triassic (Rhaetian) carbon isotope stratigraphy and depositional environments of deep neritic to basinal deposits in the Northern Calcareous Alps (Austria). <b>Dr. Wolfgang Mette</b>
10:45	# 888	The end-Triassic conodont genus Misikella in the Slovenian Basin <b>Dr. Tea Kolar-Jurkovšek</b>
11:00	# 1960	The DARIUS Palaeotectonic Maps: Evolution of the Central Tethys domain since the Middle Permian <b>Mr. Eric Barrier</b>
11:15	# 3790	Paleomagnetic results from lower Triassic red sandstones from the autochthonous cover of the Central Western Carpathians: constraints on large-scale rotations of the Alcapa microplate. <b>Dr. Rafał Szaniawski</b>
11:30	# 3420	Eastern Tethys Development in Northeastern India and India – Asia Collision <b>Prof. Vinod Tewari</b>
11:45	# 3474	Palaeogeographic evolution of the Central-Western Mediterranean area in the last 50 Myr: stratigraphical and palaeontological constraints <b>Dr. Fabio Massimo Petti</b>

## Wednesday - Session 9

14:00–15:30

**T47.9 - Tethys birth to demise: Stratigraphy, Palaeogeography and Tectonic Evolution / The Jurassic System: Timing and causes of major transitions in climate, ecology and biogeochemical cycles on land and in the oceans**  
Reg Foyer 1

TIME	PAPER #	PAPER TITLE & AUTHOR
14:00	# 1990	Metamorphosed hemi-pelagic evaporites in Anatolia: a Mid-Cretaceous salinity crisis in the Neotethys? <b>Ms. Franziska Scheffler</b>
14:15	# 4753	A Triassic–Jurassic Carbonate record from the Paleoequator: Chemostratigraphy and Sedimentology of Three Boundary Sections in the Ghalilah Formation Ras Al Khaimah, UAE. <b>Dr. Aisha Al Suwaidi</b>
14:30	# 1082	Triassic/Jurassic boundary in peritidal carbonates from western Tethys <b>Dr. Simona Todaro</b>
14:45	# 1883	Sea level reconstructions at the Triassic-Jurassic boundary: southwestern margin of the Neotethys in the Salt Range, Pakistan <b>Mr. Shahid Iqbal</b>
15:00	# 4387	Carbon isotope stratigraphy across the Triassic-Jurassic boundary: Building a global stack, assessing its correlation utility, and understanding carbon cycle perturbations <b>Dr. József Pálffy</b>
15:15	# 3079	Continuous high-resolution chemostratigraphic record of the Early Jurassic <b>Ms. Marisa Storm</b>

## Wednesday - Session 10

16:00–17:45

**T47.10 - Cretaceous sea-level changes and Asia-Pacific Cretaceous Ecosystems (IGCP 609, IGCP 608, ICDP Songliao basin)**  
Reg Foyer 1

TIME	PAPER #	PAPER TITLE & AUTHOR
16:00	# 1269	New ammonoid aragonite $^{87}\text{Sr}/^{86}\text{Sr}$ records of Mesozoic environmental change <b>Dr. Yuri Zakharov</b>
16:15	# 4418	The “Ultimate basis of Chronology”: Cyclostratigraphic calibration of high-resolution ammonite-correlated ‘events’ in the Lower Jurassic <b>Dr. Kevin Page</b>
16:30	# 4769	New multiproxy record of the Jenkyns Event (a.k.a. Toarcian Oceanic Anoxic Event) from the Mecsek Mountains (Hungary) <b>Dr. József Pálffy</b>
16:45	# 2400	Unravelling short-term climate and sea-level changes in a greenhouse world – Evidence from the Cretaceous (IGCP 609) <b>Dr. Benjamin Sames (KEYNOTE SPEAKER)</b>
17:15	# 4484	New integrated stratigraphic data from Hungary and a global carbon isotope stack across the Jurassic-Cretaceous boundary <b>Dr. József Pálffy</b>
17:30	# 4232	Early Cretaceous precise radioisotopic ages, ammonite biostratigraphy and calcareous nannofossil bioevents from the Neuquén Basin, Argentine Andes <b>Dr. Beatriz Aguirre-Urreta</b>



## Wednesday - Posters

17:45–19:00

T2.P3 - Geoscience Education and Public Communication  
Exhibition

PAPER #	PAPER TITLE & AUTHOR
# PB01	Geo Science Education in Malawi: The Case of Geography in Secondary Schools <b>Mrs. Yvonne Ndushe Fransiska Mwalwenje</b>
# PB02	The Importance of Early Childhood Earth Science Education: Understanding of the Planet That We Live On Is a Fundamental Step Toward Sustainability <b>Dr. Patricia Vickers Rich</b>
# PB03	Radio-anomalies and acoustic emissions for the teaching of Seismology <b>Dr. Valentino Straser</b>
# PB04	Educational Program “GEA – Mother Earth”: a story of success linking Geosciences to Society in the Portuguese speaking countries <b>Dr. Artur Sá</b>
# PB05	The importance of non-formal education for geoconservation: the example of the Museum of Una – São José da Coroa Grande (Pernambuco, NE Brazil) <b>Dr. Artur Sá</b>
# PB06	Low-Cost and Easy-Made Horizontal Seismometer with Arduino for Educational Use -Demonstration and Observation <b>Mr. Yoshio Okamoto</b>
# PB07	Science and Education at Congaree National Park <b>Ms. Tarryn Lee</b>
# PB08	Communicating Geoscience with the Public Through Print Publications – the Importance of Understanding Cognitive Differences in Audiences <b>Dr. Christopher Keane</b>
# PB09	Educational practices in Oga Peninsula-Ogata Geopark, northeast Japan. <b>Prof. Norihito Kawamura</b>
# PB10	An ethno-methodological approach to the formation of indigenous teachers in the Amazon region (acre, Brazil) - The concept of soil <b>Dr. Rosely Imbernon</b>
# PB11	A field-based method for teaching uniformitarian principles using trackway reconstructions <b>Mr. William Garcia</b>
# PB12	Gauging how novice geologists process and learn in first field experiences <b>Dr. Megan D’Errico</b>
# PB13	The Supersphere Characters: Children’s Books (up to 5 years) Promoting Geoscience and Environmental Education <b>Mrs. Gisele Vasconcelos</b>
# PB14	The Recession – sink or swim: an opportunity for Young Earth Scientists to innovate <b>Ms. Victoria Upindi</b>
# PB15	Up-warp and down-warp characteristic of strike-slip fault zone and its geological significance in the mid-eastern part of the Trim Basin Northwest China <b>Mr. Renhai Pu</b>
# PB16	Volcanic accumulation modes of the third member of Kongdian Formation in Weibei Sag, Bohaiwan Basin <b>Dr. Yaoting Sun</b>
# PB17	Clay mineralogy in parts of the subsurface of Tapti – Daman block, western offshore basin, India: a lead to reservoir characterisation <b>Dr. Ashish Sarkar</b>
# PB18	Distribution and Evaluation of Carboniferous Source Rocks in the Juggar Basin <b>St. Yongfu Zhao</b>
# PB19	Application of Microtremors to Identify Hydrocarbon Reservoirs <b>Dr. Bahram Habibnia</b>
# PB20	Application of a New Wavelet Threshold Method in Unconventional Oil and Gas Reservoir Seismic Data Denoising <b>Dr. Guxi Wang</b>
# PB21	Depositional filling model and subtle traps distribution in continental faulted basin tightly controlled by faulting and lake level <b>Mr. Daotao Dong</b>
# PB22	Effect of Fracture Properties on WAG and SWAG process In fractured reservoirs <b>Dr. Bahram Habibnia</b>
# PB23	Influences of litho-static pressure on deep sandstones: insight from single-factor simulation <b>Dr. Jingtang Cui</b>
# PB24	Pyrolysis simulation experiment study on diagenesis and evolution of organic-rich shale <b>Dr. Dong Chunmei</b>



# Wednesday 31 August

# PB25	Unconventional oil and gas wells horizontal wells preferred demonstration analysis <b>Dr. Si Guo</b>
# PB26	2D Multi-Transient Electromagnetic Modelling of Pseudo Synthetic Earth Model from Part of Anambra Basin, Nigeria. <b>Dr. Olalekan Fayemi</b>
# PB27	Petroleum prospecting problems in the base plate and hydrocarbons migration channels definition <b>Ms. Irina Yakhina</b>

## Wednesday - Posters

17:45–19:00

### T3.P3 - Public Sector Geoscience and Geological Surveys Exhibition

PAPER #	PAPER TITLE & AUTHOR
# PB28	An intergrated approach to the interpretation of high-resolution airborne geophysical and remote sensing data to simplify geological mapping and exploration for warmbad area, southern Namibia <b>Mr. Ewereth Muvangua</b>
# PB29	The general map of tectonic zoning of the territory of Russia in scale 1:10000000 <b>Dr. Victor Kilipko</b>
# PB30	Geological Mapping of Costa Rica: a further step for standardization of geological map at 1:50 000 scale of Central American <b>Ms. Ana Sofia Huapaya Rodriguez-Parra</b>
# PB31	The 2016 Edition of the 1: 1 million scale geological map of the Republic of SA, and the Kingdoms of Lesotho and Swaziland <b>Mr. Coenraad De Beer</b>
# PB32	Geological mapping of Burgersdorp and Katberg formations, Whittlesea area, South Africa <b>Ms. Beatrice Otunola</b>
# PB33	The Regional Geological Setting of the Haib Porphyry-Copper Deposit, southern Namibia <b>Mr. Gerhard Shifotoka</b>
# PB34	Integrated geophysical interpretation over Uheib farm, south-east of Namibia <b>Mr. Ismael Zaaruka / Mr. Simeon Shilamba</b>
# PB35	The late-Namaqua Sperlingsputs Shear Zone System, Haib region, southern Namibia <b>Mr. Jason Indongo</b>
# PB36	Geological history and the development of Brendan's dome <b>Mr. Joseph Amakali</b>
# PB37	Crustal evolution in the West African Archaean Craton in Sierra Leone, Liberia, Guinea and Ivory Coast: A review <b>Prof. Hugh Rollinson</b>
# PB38	Solving Geo-Environmental Problems and Local Government Institute: Example of Chiba Prefecture government <b>Dr. Osamu Kazaoka</b>

## Wednesday - Posters

17:45–19:00

### T4.P3 - Climate Change Studies Exhibition

PAPER #	PAPER TITLE & AUTHOR
# PB39	Study on limestone horizontal corrosive grooves in karst depressions <b>Prof. Yuhui Li</b>
# PB40	Shilin Stone Forests, Yunnan, China <b>Dr. Martin Knez</b>
# PB41	Seasonal and inter-annual variability in drip water and environmental parameters of Kaite Cave, N Spain: implications for paleoclimate reconstructions <b>Dr. Maria J. Turrero</b>

## Wednesday - Posters

17:45–19:00

### T5.P3 - Groundwater and Hydrogeology Exhibition

PAPER #	PAPER TITLE & AUTHOR
# PB42	Stable Isotope Technique To Discern Source And Origin Of Contamination In Groundwater Of Bangalore City, Karnataka, India <b>Dr. R.K. Somashekar</b>
# PB43	Study on hydrogeological model of leakage of Sanyou Cave inscription area of Yichang City, China <b>Dr. Deshan Cui</b>
# PB44	Delineation of low Order Palaeochannels of Lost river Saraswati in the Indian desert <b>Prof. Kanhaiya Lal Shricastava</b>





# PB45	Combining groundwater vulnerability and hydrogeomechanics mapping in hydromineral systems (Caldas da Cavaca, Central Portugal) <b>Prof. M.J. Afonso</b>
# PB46	The role of hydrogeological and contamination sources inventories in groundwater management: Porto City (NW Portugal) <b>Prof. M. J. Afonso</b>
# PB47	Geothermometrical modelling of a carbonate-evaporitic thermal system <b>Ms. Mónica Blasco</b>
# PB48	FREEWAT a water management tool enhancing the participatory approach in the Stampriet aquifer system region <b>Mrs. Daniela Benedicto</b>
# PB49	Over Exploitation of Ground Water , It's impact on Aquifer System and Rural Water supply Schemes in Madhugiri Taluk , Tumkur District , Karnataka <b>Mrs. Hemamalini Rajanna</b>
# PB50	Optimization of an Artificial Recharge- Pumping System for Water Supply in the Maghaway Valley, Cebu, Philippines <b>Mr. Nafyad Serre Kawo</b>
# PB51	Water quality of groundwater source in Gacko polje - Croatia <b>Dr. Tamara Marković</b>
# PB52	Distribution of Fe, Mn, Zn and As in groundwater of Slavonia and Baranja Region - Croatia <b>Dr. Tamara Marković</b>
# PB53	Drought effects on groundwater system over rural area in S. Korea <b>Dr. Sung-Ho Song</b>
# PB54	Estimation of well efficiency after well treatment: case history in S. Korea <b>Dr. Sung-Ho Song</b>
# PB55	Groundwater Dynamic in a period of drought - alluvial plain of Mogi Guaçu River, Sao Paulo, Brazil. <b>Dr. Sueli Pereira</b>
# PB56	South Africa's current analytical capabilities for stable isotopes with reference to compliance monitoring for hydraulic fracturing and future legislative requirements <b>Ms. Danita Hohne</b>
# PB57	Hydrochemical Characterization and Genesis of the Jinjiang Springs in Arxan, Northeastern China <b>Prof. Yali Cui</b>
# PB58	A methodology to assess the movement of hydrocarbons in the subsurface and the remediation thereof <b>Ms. Sascha Roopa</b>
# PB59	Impact of water level fluctuations and major ions on the quality of groundwater in Udipi District, Southwest coast of India <b>Dr. Udaya Shankara Harikripa Narayana</b>
# PB60	The rational development and exploitation of groundwater in the Hutuo-river alluvial fan in the North China Plain <b>Prof. Jingli Shao</b>
# PB61	Analogy of the mineral systems approach with the new proposed groundwater vulnerability approach: Case study of Highveld-Ermelo-Witbank coalfields, South Africa <b>Mr. Emmanuel Sakala</b>
# PB62	Impact of climate change on hydrodynamics of coastal aquifer Gujarat, India <b>Dr. Devinder Kumar Chadha</b>
# PB63	Optimization of Water conservation structures in over-urbanized area in the suburbs of Delhi, India <b>Ms. Nidhi Jha</b>
# PB64	Electromagnetic Inversion and Vertical Electrical Sounding in Groundwater Investigations in Twifo – Hemang Lower Denkyira District of Ghana. <b>Mr. Hafiz Mohammed Nazifi</b>
# PB65	Characterisation of deep groundwater in the Karoo Basin through the use of warm springs as proxies <b>Dr. Jodie Miller</b>
# PB66	Laboratory investigations of iron and manganese precipitates formed during in-situ iron removal by ozonation: Understanding the effects on the Atlantis Aquifer permeability <b>Ms. Jani Van Gend</b>
# PB67	Structure of weathered and fractured peridotites of New Caledonia: from field data to simplified modelling <b>Ms. Julie Jeanpert / Marion Iseppi</b>
# PB68	Determination and delineation of hydraulic parameters of the Ohangwena Groundwater System, Cubango Megafan, Northern Namibia <b>Mr. Christoph Lohe</b>
# PB69	Modelling the connection between groundwater abstraction and recharge to quantify baseflow for a RAMSAR listed wetland in Western Cape, South Africa <b>Mr. Andrew Watson</b>



# PB70	Structural and groundwater mapping using geophysical methods over shear zones in the Namaqua Metamorphic Province <b>Mr. Fhatuwani Matome Adolph Sekiba</b>
# PB71	Overview of Groundwater in Central Highveld Region, South Africa <b>Dr. Haili Lin</b>
# PB72	Developing capacity of groundwater and environmental protection in Kyrgyz Republic <b>Mr. Nikita Latyshev</b>
# PB73	A spatial model of groundwater chemical composition in Slovenia in GIS environment <b>prof. Marko Komac</b>

## Wednesday - Posters

17:45–19:00

### T7.P3 - Geoscience Data and Information Systems Exhibition

PAPER #	PAPER TITLE & AUTHOR
# PB74	GIS-Based Fuzzy Logic Mineral Prospectivity Modelling of Surficial Uranium Systems in Namaqualand region, South Africa <b>Mr. Abdul Osman Kenan</b>
# PB75	Discrimination and mapping of REEs litho-geochemical anomalies by multi-fractal modeling <b>Mr. Behnam Sadeghi</b>
# PB76	Spatially Weighted Principal Component Analysis to Identify Geochemical Anomalies Associated with Orogenic Gold Deposits in Northeast Jiangxi, South China <b>Dr. Chengbin Wang</b>
# PB77	Relationship between geochemical zoning and mineralization in Qinling Mountains area, China <b>Dr. Zhao Jiangnan</b>
# PB78	Application of Multithematic GIS Modelling techniques for Mineral potential mapping along the Khodana-Narnaul area as a part of the North-East extension of Khetri Copper Belt. <b>Mrs. Moumita Mitra Sinha / Mrs. Babita Yadav</b>
# PB79	Mineral mapping based on spectral angle mapper and spectral distance classification with zero-crossing wavelet method <b>Ms. Qing Qi</b>
# PB80	Local Singularity Based on Gradient for Mapping Geochemical Anomalies in Gejiu, Yunnan, China <b>Dr. Shengyuan Zhang / Dr. Wenlei Wang</b>

## Wednesday - Posters

17:45–19:00

### T8.P3 - Geohazards Exhibition

PAPER #	PAPER TITLE & AUTHOR
# PB81	The secondary hazard induced by seismic activity could be more threatening in karst mining area <b>Dr. Zhiyong Li</b>
# PB82	Numerical simulation of deep-hole resistivity anomaly caused by drilling construction in Xinfengjiang geoelectric station <b>Dr. Xing Yan</b>
# PB83	Western Pacific mega wave: a 2-kyr-long geological record in northern Taiwan <b>Dr. Neng-Ti Yu</b>
# PB84	Paleotsunami in Eastern Taiwan and its Implications <b>Prof. Jiun-Yee Yen</b>
# PB85	A comparative study of tunnel deformation by designing of auxiliary tunnels <b>Prof. Haijun Zhao</b>
# PB86	Seasonal, long-term, and short-term deformation in the Central Range of Taiwan induced by landslides <b>Dr. Ya-Ju Hsu</b>
# PB87	Using near real-time single frequency GPS network monitor deep seated landslides in active mountain belts <b>Prof. Ching-Wee Lin</b>
# PB88	Estimation of the seismic risk in major cities of Gangwon province, Korea using shear-wave velocities <b>Prof. Ki Young Kim</b>
# PB89	Prediction of landslides considering the depth ratio of the wetting front <b>Dr. Byung-Gon Chae</b>
# PB90	Feasibility test of joint maximum likelihood earthquake location with arrived and not-yet arrived data for early warning <b>Prof. Dong-Hoon Sheen</b>
# PB91	Rock Engineering awareness training and its benefits <b>Mr. Leon Booyens</b>



## Wednesday - Posters

17:45–19:00

## T9.P3 - Proximal and Remote Sensing Technologies Exhibition

PAPER #	PAPER TITLE & AUTHOR
# PB92	Sampling methods in colluvium material for metallurgical characterisation <b>Mr. Willem Van der Schyff</b>
# PB93	Application of Multispectral Image Landsat OLI and ASTER for Detection of Gold Mineralization in Macossa District – Mozambique <b>Mr. Félix Arnaldo Cumbane</b>
# PB94	Mapping and mineralogical discrimination of linear paleoproterozoic carbonatite complexes from Ihouhaouene area (In Ouzzal terrane, Hoggar, Algeria) <b>Mr. Massinissa Amara</b>

## Wednesday - Posters

17:45–19:00

## T10.P3 - History of the Geosciences Exhibition

PAPER #	PAPER TITLE & AUTHOR
# PB95	Resources of geoscientific information in Africa (Poster Presentation) <b>Mrs. Debbie Lievaart</b>
# PB96	Verifying the Silurian: Murchison's 1845 field campaign in Sweden <b>Dr. John Diemer</b>
# PB97	The Italian geological expeditions to Tripolitania and Cyrenaic regions (Libya N-Africa) between 1911 and 1914 <b>Dr. Fabio Massimo Petti</b>
# PB98	Materials on South Africa geology in The Academician Th.N. Tschernyschew Central Research Geological Prospecting Museum, St.Petersburg, Russia <b>Mr. Leonid Kolbantsev</b>

## Wednesday - Posters

17:45–19:00

## T11.P3 - Medical Geology Exhibition

PAPER #	PAPER TITLE & AUTHOR
# PB99	Radiological implication due to heavy minerals in surface soil from Ditrau Massif – eastern Carpathians, Romania <b>Dr. Delia Dumitras</b>
# PB100	Investigating geogenic lead contamination and its effects on health in kilifi area, kenya <b>Ms. Christa Koki</b>
# PB101	Clay minerals and clayey soils as possible microorganisms repository <b>Mr. Uchenna Okerefor</b>
# PB102	Strategies for a sustainable healthier workforce in coal abrasiveness index determination unit operation <b>Prof. Antoine F Mulaba-Bafubiandi</b>
# PB103	Clayey soil geophagia and possible mitigation processing for safe consumption <b>Mrs. Adeline Megne</b>

## Wednesday - Posters

17:45–19:00

## T14.P3 - Environmental Geosciences Exhibition

PAPER #	PAPER TITLE & AUTHOR
# PB104	Erosion and Deposition in the Alluvial Plain of the Mogi Guaçu River, Brazil <b>Dr. Sueli Pereira</b>
# PB105	Seasonal Variability of Polycyclic Aromatic Hydrocarbons on Surficial Soils in South-West India <b>Ms. Minal Gune</b>
# PB106	Effects of anthropic development in a urban beach of south Sardinia (Italy, western Mediterranean) evaluated using hydrodynamic models, run-up and DSAS indices <b>Prof. Sandro De Muro</b>
# PB107	Microbiological Proxies and Geo-environmental Assessment: A Study from Gomati River, Lucknow, Uttar Pradesh, Central Ganga Plain (CGP), India <b>Dr. Ajay Kumar Arya</b>
# PB108	Diatoms as a proxy in reconstructing Late Holocene environmental changes in SE Baltic Sea - a case study of the Gulf of Gdańsk sediments <b>Dr. Małgorzata Witak</b>
# PB109	Peloids of present-day salt lakes: geological and man-caused controls on their composition <b>Dr. Sergey Kotov</b>



# PB110	Biogeochemical Modelling of Arsenic in Soil-water-plant Systems in Thailand <b>Mr. Thanan Watcharamai</b>
# PB111	Geochemical baselines and metal deportment in the upper Olifants Primary Catchment by using stream sediment geochemistry, Witbank Coalfield, South Africa <b>Mr. Robert Netshitungulwana</b>
# PB112	Study on Eco-geochemical Environmental Characteristics and Heavy Metal Pollution Assessment in High Incidence Area of Nasopharyngeal Carcinoma in Sihui, Guangdong (China) <b>Prof. Yongzhang Zhou</b>
# PB113	Oxidation-reduction condition of aquifer at geo-pollution site and change of VOCs concentration on Shimousa upland, northern Boso peninsula, central Japan <b>Dr. Osamu Kazaoka</b>
# PB114	Possible environmental causes and implications of corrosion on housing structures (Bontleng): A case study <b>Ms. Portia Tshepiso Letlole</b>
# PB115	Engineering geological zoning of the Central Federal region, Russian Federation, by the suitability for allocation of disposal sites and utilization facilities for solid municipal waste <b>Dr. Irina Kozlyakova / Dr. Irina Kozhevnikova</b>
# PB116	Pollution Characteristics of Nitrogen and Isotopic Analysis of Shallow Groundwater in the Sewage Irrigation Areas of Kuihe River, China <b>Prof. Jinguo Wang</b>
# PB117	Application of Lead Isotopic Ratios and Multivariate Statistical Analysis in Source Apportionment with a Health Risk Assessment of Heavy Metals in the Street Dust Of Kolkata, India <b>Mr. AVIJIT DAS</b>
# PB118	Speciation of Metals by Ionizing Radiation in Groundwater Samples from Taiaçupeba reservoir, Metropolitan Region of São Paulo, Brazil <b>Dr. Rosely Imbernon</b>

## Wednesday - Posters

17:45–19:00

### T15.P3 - Engineering Geology and Geomechanics Exhibition

PAPER #	PAPER TITLE & AUTHOR
# PB119	Mechanism and control measures of a large deformation across the granite alteration zone in An Ping Tunnel <b>Dr. Zhang Guo Hua</b>
# PB120	The origin of the rock of stonewalls in the Hitsujisaru and Tatsumi tower traces of the Yamagata Castle <b>Prof. Yukiko Ohtomo</b>
# PB121	Geophysical Investigation for Engineering Site Characterizations of Wachamo University, North-east of Hosanna, Southern Ethiopia <b>Mr. Yonatan Garkebo Doyoro</b>
# PB122	Study on the engineering properties of the mucky soft soil in Guizhou, China <b>Dr. Xin Liao</b>
# PB123	Geo-environment characteristics of weathering deterioration of Tongtianyan Carved Stone Relics, China <b>Prof. Xu GuangLi</b>
# PB124	Development of Technology for Directional Drilling – Long-term Monitoring and Automatic Data Acquisition System - <b>Mr. Akira Shidai</b>

## Wednesday - Posters

17:45–19:00

### T16.P3 - Mineral Resources Evaluation, Geostatistics and Mathematical Geoscience Exhibition

PAPER #	PAPER TITLE & AUTHOR
# PB125	Geostatistical Modelling of Log-derived Petrophysical Data for Quantifying Uncertainties in “AMESERE” Field, Niger Delta. <b>Mr. Abayomi Osotuyi</b>
# PB126	Prediction Theory and Technique of China National Mineral Resource Potentiality <b>Dr. Shuwen Xing</b>
# PB127	Assessment of Mineral Resources Potential by combining Monte Carlo and Weights of Evidence Models <b>Dr. Luping Pu</b>
# PB128	The statistical distribution pattern of zinc concentrations at Belousovskoye deposit (Rudny Altai) <b>Г-жа. Katerina Petrich</b>
# PB129	Three-dimensional modeling of Fracture-cavity reservoirs <b>Dr. Jiagen Hou</b>
# PB130	Application of Fitness-Distance-Ratio Based Particle Swarm Optimization for Travel Time and Constrained AVO Inversion <b>Mr. Aayush Agarwal</b>





**Wednesday - Posters**  
**T17.P3 - Mineral Exploration**  
**Exhibition**

17:45–19:00

PAPER #	PAPER TITLE & AUTHOR
# PB131	A Comparative Study of Hand-Held Magnetic Susceptibility Instruments <b>Mr. Deng Ngang Deng</b>
# PB132	Gold exploration using integrated geophysical survey methods: A case study for Ncema area of Esigodini in Zimbabwe. <b>Mr. Joseph Zulu</b>
# PB133	Interaction of ELF-ULF Controlled Source Electromagnetic Waves with the Earth Crust and Ionosphere FENICS-2014 experiment <b>Dr. Abdulkhai Zhamaletdinov</b>
# PB134	Self-Potential and Gravity Methods as Signatures of Massive Sulphides Mineralization, Jebel Abu Mahmoud, Derudeb Area, Red Sea Hills, Sudan <b>Mr. Alnaaeem Saeed</b>
# PB135	Optimizing the exploration of hydrothermally enriched calcium carbonate bearing faults using geophysical methods: Implications to resource estimation <b>Mr. Emmanuel Chirenje</b>
# PB136	Approaching Subsurface to Assess Lignite Deposits by Gravity Survey in Bikaner District, Rajasthan, India <b>Dr. Kashi Nath Singh Yadav</b>
# PB137	Geophysical mapping of the Ramokokastad Carbonatite Complex, Northwest, South Africa <b>Mr. Lebogang Ledwaba</b>
# PB138	Deeper crustal configuration of the lithosphere over Barak Valley region, Indo-Myanmar Orogen <b>Dr. Devesh Walia</b>
# PB139	Computation of the gravity field and its gradient: Some applications <b>Dr. Chandra Prakash Dubey</b>
# PB140	Application of acoustic stratum inversion for predicting lithophysical rock properties of complex oil and gas prospective objects <b>A.B Krivitski</b>
# PB141	Transported cover as an efficient medium to identify ore geochemical footprints: the DeGrussa landscape geochemical evolution <b>Dr. Ignacio Gonzalez-Alvarez</b>
# PB142	REE enrichment in lateritic soil profiles and its economic potentiality - a case study from Nongpoh Granitoids, Meghalaya, India <b>Mr. Ravi Kumar Umrao</b>
# PB143	Multi-scale detection of buried mineralization and lithology through Kalahari transported cover in NW Botswana <b>Dr. Ravi Anand</b>
# PB144	Geochemical exploration in regolith-covered terrains: a case study from the periphery of the Zijinshan copper–gold mine, southeastern China <b>Dr. Bimin Zhang / Dr. Xueqiu Wang / Prof. Rong Ye</b>
# PB145	Selective leaching Analysis of Cu porphyry deposit, Plutus Prospect, Botswana. <b>Ms. Josephine Uushona</b>
# PB146	The Mantle Derived Potassic and Ultrapotassic Rocks Related Enrichments of Rare Earth Elements (REE) on Peneplains of Golcuk District (Southern Turkey) <b>Mr. Ali Tugcan Unluer</b>
# PB147	Quantitative assessment of ground water as a media for mineral exploration in arid and semiarid region <b>Ms. Rajni Mathur</b>
# PB148	Contribution of Remote Sensing Radar to analyse fracturing and identify new drilling targets from Oumé license-Côte d'Ivoire <b>Mr. Anderson Mahizan</b>
# PB149	New method of finding the zones of hydrothermal sulfide mineralization in the ocean <b>Dr. Sergei Petukhov / Dr. Sergei Andreev / Mrs. Natalia Kolchina / Mr. Aleksander Seleznev</b>
# PB150	Geochemical identification marks of hydrothermal metallogenic system boundary <b>Mr. Shengming Ma</b>
# PB151	Development of surficial, environmentally low-impact exploration methods for the sub-arctic environment <b>Dr. Vesa Nykänen</b>
# PB152	Joint Inversion of geophysical data around submarine hydrothermal deposits based on core samples <b>Dr. Tada-Nori Goto</b>
# PB153	Bio-exploration on the Ghanzi Ridge copper deposit <b>Ms. Natasha Aurret</b>
# PB154	Application of the crystals habits cavities forms of Cu-Co sulfides in green field exploration along the Lufilian arc: An example of Tenke Fungurume Mining District (Democratic Republic of Congo) <b>Ms. Pascal Matanda Mambwe</b>



- # PB155 Gold Grains and X-ray Microscopes – A New Exploration Tool for Identifying Proximal and Distal Gold Deposits  
**Mr. Shaun Graham**
- # PB156 Geological mapping by using ASTER data in Tonota area, North-East Botswana  
**Mr. Kewame Gwandu**

## Wednesday - Posters

17:45–19:00

### T18.P3 - Mineral Deposits and Ore Forming Processes Exhibition

PAPER #	PAPER TITLE & AUTHOR
# PB157	Structural Setting and Geometry of the Klipbankfontein Deposit, Kolomela Mine, South Africa <b>Dr. Ian Basson</b>
# PB158	Mineralogical characterization of non-sulfide Zn–Pb mineralization at Mehdiabad deposit, Iran <b>Dr. Flavien Choulet</b>
# PB159	Ore Mineral Deposition in Black Shales, Southern Slope of the Greater Caucasus <b>Ms. Nona Gagnidze</b>
# PB160	The uranium-bearing stratum structure and sedimentary characteristics of Jurassic in Junggar basin, Xinjiang, China <b>Dr. Qiang Guo</b>
# PB161	The uranium enrichment of hydrothermal sedimentary rocks of lower Cretaceous in Baiyinchagan sag of Erlian basin, Inner Mongolia <b>Dr. Qiang Guo / Prof. Zi Ying Li / Prof. Mingkuan Qin / Prof. Yuqi Cai</b>
# PB162	The stratigraphic, petrographic and geochemical subdivision of the upper manganese ore bed of the Hotazel Formation at Kudumane Mining Resources, Northern Cape Province. <b>Ms. Nkhensani Hlongwani</b>
# PB163	New insights into the genesis of Bavaria's largest Cu-Zn deposit in Kupferberg (NE Bavaria, Germany) <b>Mr. Stefan Höhn</b>
# PB164	3D Model of the Silvermines Zn-Pb-Ba Deposits, County Tipperary, Ireland <b>Dr. Roisin Kyne</b>
# PB165	Geochemical characterisation of Pb-Zn-Cu and Ba mineralisation in the Lower Cretaceous sediments of the Coastal Basin, Gabon, Central Africa <b>Mathieu Lacorde</b>
# PB166	Geochemical characteristics of trace elements and their implications of the Xingyuanchong Cu polymetallic deposit northwest of Jiangxi province for Qingzhou-Hangzhou metallogenic belt (QHMB), China <b>Mr. Xingyuan Li</b>
# PB167	An overview on the geochemistry and palaeo-environment of manganese nodules from the General Nice Manganese Mine (GNMM) in the North West Province, South Africa <b>Dr. Kakaba Madi</b>
# PB168	Geological control of Au-Cu mineralization in the Neoproterozoic Itombwe formations of Kaziba, South Kivu (D.R. Congo). <b>Mr. Espoir Mugisho</b>
# PB169	The Kupferschiefer <b>Prof. Adam Piestrzynski</b>
# PB170	Discovery of PGE in the Neoproterozoic sediment-hosted stratabound Cu-Ag deposit in the Kalahari Copperbelt, NW Botswana <b>Prof. Adam Piestrzynski</b>
# PB171	Re-evaluating models for manganese ore genesis in the Postmasburg Manganese Field, Northern Cape, South Africa <b>Dr. Harilaos Tsikos</b>
# PB172	S-C-O isotopes constrains on the ore bearing fluids of Tongchang copper deposit at Yimeng, central Yunnan <b>Dr. Rong Wang</b>
# PB173	Opportunity for Miocene aged titanium placer deposits around ultramafic Ślęża massif (Sudets, SW Poland) <b>Prof. Janina Wiszniewska</b>
# PB174	Natural Gas Seepage Sedimentary Ore-forming Model in Manganese Rift Basin <b>Dr. QI ZHOU</b>

## Wednesday - Posters

17:45–19:00

### T22.P3 - Energy in a Carbon Constrained World Exhibition

PAPER #	PAPER TITLE & AUTHOR
# PB175	An overview of research at the Lateral Caldera, Italy, natural CO <sub>2</sub> analogue site <b>Mr. Salvatore Lombardi</b>
# PB176	CO <sub>2</sub> storage project in Italy: the Sulcis Coal Basin, Italy <b>Ms. Sabina Bigi</b>
# PB177	Petrology and geochemistry characteristics of mudstone interlayer within the paleo-CO <sub>2</sub> reservoirs, in the Southern Songliao Basin, China <b>Prof. Li Liu / Doctoral student Xiaoran Ming / Lecturer Na Liu / Doctoral student Lei Yu / Graduate student Hanggai Bai / Senior Engineer Chunyan Hu</b>
# PB178	Characteristics and Origin of Dawsonite in Songliao Basin, China: A natural analogues for CO <sub>2</sub> sequestration in deep-saline aquifers <b>Dr. Li Liu</b>



# PB179	Carbon dioxide sorption on gas bearing shale and halloysite <b>Dr. Marcin Lutynski</b>
# PB180	Fracture Controlled CO <sub>2</sub> gas migration at the Bongwana Natural CO <sub>2</sub> Release Site, South Africa. <b>Mr. Nigel Hicks</b>
# PB181	Geological subsurface data collection as a part of the European ESTMAP Project (Energy Storage Mapping and Planning) <b>Dr. Laurent Beccaletto</b>
# PB182	Modelling the geology of the GeoEnergy Test Bed, East Midlands UK <b>Dr. Tim Pharaoh</b>
# PB183	Assessment of the total CO <sub>2</sub> storage capacity of shales – upscaling from sorption and reservoir data <b>Dr. Marcin Lutynski</b>
# PB184	Paleostress reconstruction based on minor faults in core <b>Msgr. Sehyeon Gwon</b>
# PB185	Stratigraphy, Hydrothermal Alteration and Thermal evolution of the Domes field, Olkaria Geothermal System, Kenya <b>Mr. Xavier Musonye</b>
# PB186	High temperature hydrothermal alteration in active geothermal systems: a case study of Olkaria domes <b>Mr. James Nyandigisi</b>
# PB187	Structural controls on geothermal activity in the eastern Mediterranean region: example of the Main Menderes area (Western Turkey) <b>Mr. Vincent Roche</b>
# PB188	Geological Review of Eburru-Badlands Geothermal prospect; Surface structural and geological mapping <b>Ms. Irene Ronoh</b>
# PB189	Assessment of the geothermal potential of the Main Karoo Basin (South Africa): An outcrop analogue study of Permian sandstone reservoir formations <b>Prof. Annette E. Goetz</b>
# PB190	Study of the evaluation of the reservoir temperature for geothermal system: Geothermometry in Boloang Mongondow Area, Province of North Sulawesi, Indonesia <b>Mr. Sayyed Faturahman</b>
# PB191	Efficiency analysis of geothermal heating and cooling system using groundwater in South Korea <b>Dr. JINSUNG KIM</b>
# PB192	Preliminary Assessment of the Puchuldiza-Licancura Geothermal Field in the Central Andean Volcanic Zone, northern Chile <b>Dr. Eugenio Veloso / Dr. Felipe Aron / Ms. Estefania Camus / Dr. Jose Cembrano / Dr. Gloria Arancibia / Dr. Diego Morata</b>
# PB193	Geothermal energy from the Main Karoo Basin: New insights from borehole KVV-1 (Eastern Cape, South Africa) <b>Prof. Annette E. Goetz</b>
# PB194	Detection of Fractures Acting as Hydrothermal Fluid Path by Lineament Analysis and Radon Gas Measurement <b>Prof. Katsuaki Koike</b>

### Wednesday - Posters

17:45–19:00

#### T25.P3 - Critical metals - a global perspective Exhibition

PAPER #	PAPER TITLE & AUTHOR
# PB195	The Sc-Nb-TR Tomtor deposit and its genesis <b>Dr. Elena N. Levchenko</b>
# PB196	Magmatic-hydrothermal processes forming the REE mineralisation in the Loolekop carbonatite of the Phalaborwa Complex, South Africa <b>Mr. R. Johannes Giebel</b>
# PB197	REE fractionation and element transfer within weathering profiles in a mild and humid climate: alteration zones of the Fen-Carbonatite Complex, Norway <b>Prof. Uwe Altenberger</b>

### Wednesday - Posters

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#### T28.P3 - Sedimentary Processes - ancient to modern Exhibition

PAPER #	PAPER TITLE & AUTHOR
# PB198	Sequence Stratigraphy and Sedimentary Facies Analysis of Shahejie Formation in Nanpu Sag of Bohai Bay Basin, China <b>Prof. jinliang Zhang / Mr. zhongqiang Sun</b>
# PB199	Post-collisional granitoids and mid-Cretaceous (117-106 Ma) extension in tectonic evolution of Chukotka Mesozooids, Northeast Russia <b>Mrs. Marina Luchitskaya</b>
# PB200	Origin and formation specificity of the Late Cenozoic sediments of the Central Arctic rises: the experience of molecular stratigraphy
# PB201	Petrographic and geochemical criteria for distinguishing humid versus arid laminated calcrete deposits, Puerto Rico <b>Ms. Katherine Kuklewicz</b>



# PB202	ePalaeotopography as an important factor for the development of continental glaciations: Ediacaran and Famennian cases <b>Dr. Mariusz Paszkowski</b>
# PB203	Palaeo-environmental evolution in Lake Lúngue, southern Mozambique, during the last 1000 years <b>Mrs. Sandra Sítóe</b>
# PB204	Depositional changes and sea-level fluctuation from Holocene Nakdong River deltaic sediments, South Korea <b>Prof. Daekyo Cheong</b>
# PB205	Stratigraphy and palaeoenvironments of Permian to Jurassic strata in the Lebombo-Tshipise Basin, northeast South Africa <b>Ms. Katherine Clayton</b>
# PB206	Holocene sediment transfer in Godavari River: Inferences from mineral magnetic studies <b>Dr. Satish Sangode</b>
# PB207	Paleoclimatic, paleoenvironmental and paleotectonic significance of Middle Jurassic Fe concentrations of Central Sardinia (Italy) <b>Dr. Andrea Vacca</b>
# PB208	Environmental drivers and benthic controls of organic carbon storage in sediments of northern fjords - a latitudinal study (60–80°N) <b>Dr. Maria Włodarska-Kowalczyk</b>
# PB209	The reconstruction of paleo-environment Albo-Aptian sediments of the massive El Hmaima North Tébessa North-Eastern Algeria <b>Ms. Diab Hamida</b>
# PB210	Beach Bar Sedimentary Characteristics of Es1 member in Beipu Area, Nanpu Sag <b>Ms. Mengyao Li</b>
# PB211	2D Seismic-Stratigraphic analysis of the Jc-A1 well, Durban Basin, East Coast, South Africa <b>Mrs. Thulisile Nokwethemba Buthelezi</b>
# PB212	Prediction of submarine canyon bathymetry by the multivariate analysis of sediment geochemistry: A case study of northern Ionian Sea, Italy <b>Dr. Tohru Ohta</b>
# PB213	Revisiting beachrock cementation processes <b>Ms. Isabel Villaneda-Van Vloten</b>
# PB214	Sedimentology and Magnetostratigraphy of the cretaceous formations in the Hamakoussou and Mayo Oulo-Lere bassins in the Northern Cameroon (Benue Through). <b>Dr. Jacqueline Ntsama Atangana</b>
# PB215	Evidence of Basin Subsidence and Submergence in part of Sunderban, West Bengal, India <b>Mr. Sachin Tripathi</b>
# PB216	The chemical stratigraphy and palaeoenvironmental significance of the Kalkkop Impact Crater Lake deposits, Eastern Cape, South Africa <b>Ms. Ponani Mthembi</b>

## Wednesday - Posters

17:45–19:00

### T29.P3 - Basin Formation and Continental Margins Exhibition

PAPER #	PAPER TITLE & AUTHOR
# PB217	U-Pb age in zircon (LA-ICP-MS) of alkaline rocks from Marapicu massif (RJ), Brazil. <b>Dr. Mauro Gerales</b>
# PB218	Small-scale petroliferous basins in China: Characteristics of type and hydrocarbon occurrence <b>Prof. Chiyang Liu</b>

## Wednesday - Posters

17:45–19:00

### T30.P3 - A Dynamic Earth Exhibition

PAPER #	PAPER TITLE & AUTHOR
# PB219	New Insights into the Provenance of Palaeocene to Miocene in Lenghu Structural Belt, Qaidam Basin: Response to the Tibetan Plateau Uplifting <b>Dr. Rui Zhao</b>
# PB220	Investigation of Foreland Fold-and-Thrust Belt by TTI Media Reverse-time Migration with GPU <b>Mr. Hong Liu</b>
# PB221	Autochthonous or Allochthonous Inception of the Macquarie Arc along Eastern Gondwana? Evidence from Zircon U/Pb and Hf Isotope Data <b>Ms. Qing Zhang</b>
# PB222	The characters of large-scale continental shelf edge Delta and its effect on related gas reservoir in Baiyun Sag of Pearl River Mouth Basin, South China Sea <b>Mr. Chuncheng Liu</b>
# PB223	The role of sulphur during partial melting of the eclogitic cratonic mantle <b>Ms. Sara Burness</b>
# PB224	The Precambrian geology of Botswana: an update from magnetic and gravity data <b>Ms. Portia Tshhepiso Letlole</b>





# PB225	A comparison of the geochemistry of megacrysts from Group I and Group II southern African kimberlites: Evidence for a cognate origin <b>Mr. Jaziel Nkere</b>
# PB226	Seismic Velocity Model of Great Bear Fault Zone, NWT, Canada <b>Mr. Alan Davies</b>
# PB227	Radiogenic and Stable Isotope Constraints on the Source Regions of Phanerozoic Carbonatites and Associated Igneous Rocks from Western South Africa and Southern Namibia. <b>Ms. Ibiyemi Prisca Ogungbuyi</b>
# PB228	The Steilrandberg of Namibia: relict or reentrant? <b>Prof. Mary Hubbard</b>
# PB229	Depositional evolution of Southwest Gondwana Neoproterozoic paleobasins based on Sr, C and O isotopic compositions of carbonatic rocks from the Sul-Riograndense Shield, Brazil <b>Ms. Rossana Goulart</b>
# PB230	Archean Oceanic Crust and Boninitic Magmatism in the Norwegian Craton: Geochemical Affinities and Preliminary Geodynamic Interpretations <b>Dr. Pavel Kepezhinskis</b>
# PB231	P-type ophiolite in the Lajishan, Qilian orogenic belt, NW China: mantle-plume activity in Cambrian ocean basin <b>Ms. Yuqi Zhang / Dr. Shuguang Song</b>
# PB232	Tectonic evolution of the West Qinling Orogen from ocean spreading to IBM-type subduction <b>Mr. Liming Yang</b>
# PB233	Contrasting thermal histories from two high-pressure metamorphic sequences of the Nagaland Ophiolite Complex, NE India: Implication of subduction channel within the Neo-Tethys <b>Mr. Aliba Ao</b>
# PB234	Landslide Susceptibility Mapping on Macro-Scale along road corridor using heuristic approach <b>Mr. Pankaj Kumar</b>
# PB235	Seismicity of Botswana for the period 1950 - 2014 <b>Mr. Onkgopotse Ntibinyane</b>
# PB236	Active Lineament Mapping within Karonga Area; Northern Malawi: Using Automatic Lineament Extraction Methods <b>Mr. Hassan Steven Mdala</b>
# PB237	Structural control of Landslides in South Western Himalaya: Study from Chamba-Bharmour Section, Himachal Pradesh, India <b>Dr. Ajay Kumar Arya / Ms. Kamini Singh</b>
# PB238	Novel Geotechnical Investigation: - Ermelo Ring Road to demarcate Risk due to Historic Coal Undermining in South Africa <b>Dr. Stoffel Fourie</b>
# PB239	Petrography, Mineralogy and Geochemistry of Rocks in the Borehole ZA, Onshore Zululand Basin: Evaluation for Carbon Dioxide Storage <b>Mr. Fillsmith Luzolo Ndongani</b>
# PB240	Earthquake recurrence parameters for KwaZulu-Natal Province <b>Mr. Victor Mapuranga</b>
# PB241	Geomorphologic and Stratigraphic relationships as indicators of Upper Pleistocene– Holocene climate change and Tsunami Hazard, central coast of Ecuador <b>Kervin Chunga</b>
# PB242	Astronomically tuned mantle convection <b>Mrs. Eleonora Ficini</b>
# PB243	The Greater Malani Supercontinent <b>Dr. Naresh Kochhar</b>
# PB244	Fennoscandia (the East European Craton) during Paleoproterozoic: new paleomagnetic and AMS data <b>Mr. Nikolay Tarasov</b>
# PB245	The earliest stages of the Central Asian fold belt continental crust formation: magmatism and paleotectonic reconstructions of the Yenisey Ridge orogen from the southwestern framing of the Siberian craton <b>Dr. Antonina Vernikovskaya</b>
# PB246	Baltica at 1.55-1.40 Ga: Contrasting tectonics vs rotations <b>Dr. Natalia V. Lubnina</b>
# PB247	Plate Tectonics by the Einstein's Theory of Relativity <b>Dr. Nivaldo Destro</b>
# PB248	Mesoproterozoic anorogenic magmatism in SW Amazonian Craton using Lu-Hf isotopes in granites: Paleocontinent reconstruction insights based on mantle correlation <b>Dr. Mauro Gerales</b>
# PB249	Cenozoic intracontinental deformation of the Kopeh Dagh Belt, Northeastern Iran <b>Dr. Yang Chu</b>
# PB250	U–Pb zircon ages, field geology and geochemistry of the Kermanshah ophiolite (Iran): From continental rifting at 79 Ma to oceanic core complex at ca. 36 Ma in the southern Neo-Tethys <b>Dr. Songjian Ao / Prof. Wenjiao Xiao</b>
# PB251	Mid Ordovician contact metamorphism in arc rocks (SW Sardinia, Italy): new paleogeographic constraints <b>Prof. Laura Gaggero</b>



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# PB252	Protolith features of “Jiageda Group” metamorphic rock series in north Great Xing’an Range, NE China <b>Dr. Changqing Zheng / Dr. Xuechun Xu / Dr. Tao Jiang / Dr. Bo Lin</b>
# PB253	Early Paleozoic tectonic evolution of the North Qinling Orogenic Belt in Central China: insights on continental deep subduction and multiphase exhumation <b>Prof. Liang Liu</b>
# PB254	Geochemistry of 1800 Ma Ramgarh granitoids of Kumaun Lesser Himalaya – An example of Palaeoproterozoic arc magmatism in Columbia supercontinent <b>Mr. Arindam Das</b>
# PB255	The Tectonic Setting and Evolution of the Longmen Shan in Later Triassic, the Eastern margin of Tibet Plateau, SW China <b>Mr. Bin Chen</b>
# PB256	Constraints from C-O isotope compositions on the origin of the Zhaxikang Zinc polymetallic deposit, Tibet, China <b>Dr. Bin Lin</b>
# PB257	Subduction of the Indian lower crust beneath southern Tibet: Evidence of zircon Hf–O and whole-rock lithium isotopic characteristics of post-collisional potassic and ultrapotassic rocks in SW Tibet <b>Prof. Shihong Tian</b>
# PB258	Geochronology, geochemistry and geological significance of the Mesozoic-Cenozoic volcanic rocks in southern Lhasa block, Tibet <b>Dr. zuohai feng</b>
# PB259	Geochronology and Petrogeochemistry of arc-volcanic rocks from Meiriquiecuo Group in the Duolong porphyry-epithermal copper (gold) deposit, western Tibet <b>Dr. Shao-Gang Wei</b>
# PB260	“Split personality” behaviors of the Longmenshan Fold Belt: suggest a NE growth toward Tibet since 40 Ma <b>Prof. Xiaodian Jiang</b>
# PB261	Comparing the structure of the Main Frontal Thrust in Central and Eastern Nepal – Implications for seismic hazard estimates <b>Dr. Rafael Almeida</b>
# PB262	Middle to Late Ordovician arc in the Kyrgyz Middle Tianshan: From arc-continent collision to subsequent evolution of a continental margin <b>Prof. Alfred Kroener</b>
# PB263	Uplift-denudation of Peripheral Orogenic Belts control on the Formation of Sandstone Type Uranium (U) Deposits in Junggar Basin, Northwest China: Implication from Apatite Fission Track Research <b>Ms. Jiye Song</b>
# PB264	Early Cretaceous Baoder extensional granitic dome and its tectonic implications, Sunite Zuoqi, China-Mongolia Border area <b>Dr. Lei Guo</b>
# PB265	Melt-crystal interaction during magma mixing: the Zircon U-Pb-Hf-O isotope and mineral microanalysis of granitoids and mafic enclaves in Karamay pluton, West Junggar, NW China <b>Mr. Lei Kang</b>
# PB266	Western Tien Shan Geodynamic zoning and Minerageny <b>Dr. Rustam Mirkamalov</b>
# PB267	Universal grid of planetary faults and displacement of minerals deposits <b>Dr. Pavel Nagevich</b>
# PB268	Detrital zircon U-Pb and Hf isotopic data from the Idermeg terrane, Eastern Mongolia: Constrains on depositional age, sedimentary provenance and tectonic setting <b>Dr. Tserendash Narantsetseg</b>
# PB269	The study of Sedimentary Characteristic and Tectonic Setting on the Devonian, Eastern Qinling Orogenic Belt, China <b>Dr. Jiang Xiaojun</b>
# PB270	Intracontinental tectonic stress field of the Tien Shan in Central Asia <b>Prof. Weiran Li</b>
# PB271	Basement nature of Junggar basin in the NW China: zircon U-Pb-Hf isotope evidence from the Carboniferous pyroclastics of borehole samples <b>Prof. Hong Hao</b>
# PB272	Structural Mapping Based on Remote Sensing and Potential Field Data from Son-Mahanadi Gondwana Rift Basin, India <b>Mrs. Chowdari Swarnapriya</b>

**Wednesday - Posters**  
**T31.P3 - The Deep Earth**  
**Exhibition**

**17:45–19:00**

PAPER #	PAPER TITLE & AUTHOR
# PB273	Aeromagnetic and gravity studies for evolution of deep crustal configuration of Saurashtra-Cambay basin - Deccan large igneous province, India <b>Dr. Somanchi Srinivas</b>
# PB274	Nano Oxide Particles Modified Drilling Fluid for Deep, Complicated Drilling Conditions <b>Dr. Baochang Liu</b>
# PB275	Numerical study on lag time correction of cuttings in Songliao Basin Drilling Project <b>Mr. Haidong Wu</b>



# PB276	Research on elevated temperature resistant aluminum alloy drilling pipe for deep and ultra-deep wells <b>Dr. Shaoming Ma</b>
# PB277	Design and Preliminary Field Experiment of Oil Shale Borehole Hydraulic Mining Tool with Expandable Nozzle <b>Dr. Shuai Gao</b>
# PB278	Development and experiments of hole-bottom freezing drilling tool for gas-hydrate-bearing sediments sampling <b>Dr. Wang Yuan</b>
# PB279	Simulation of Auto-drilling System of The Crust-1 Continental Scientific Drilling Rig <b>Youhong Sun / Yan Zhao</b>
# PB280	Study of ultrasonic vibration mechanism of rock fragmentation <b>Dr. Zihang Sun</b>

### Wednesday - Posters

17:45–19:00

### T39.P3 - Evolution of the Biosphere and Biogeoscience Exhibition

PAPER #	PAPER TITLE & AUTHOR
# PB282	New occurrences of Permian stromatolites near Purros and Orupembe, Kunene Region, NW Namibia <b>Ms. Aimée Barroso</b>
# PB283	Petrophysical and Geochemical Variations Related to Stromatolite Dissolution <b>Sr. João Victor D. Alcantara</b>
# PB284	Could environmental conditions play important role in carbonate facies formation? A reappraisal based on new bio-geochemical approach in modern microbialites from Japan. <b>Mr. Rafael França Mattos</b>
# PB285	Daily lamination formed by sulfur oxidizing bacteria and chloroflexus in a hot spring stromatolite <b>Dr. Tomoyo Okumura</b>
# PB286	Geochemical and mineralogical microbial signatures recorded within the condensed deposits of the Middle-Upper Jurassic transition on the Romanian territory <b>Dr. Lucian Petrescu</b>
# PB287	Discovery of a new phosphorite ore-bearing strata and stromatolite phosphorites of Dengying Formation of Late Ediacaran in Guizhou Province, SW China <b>Dr. Haili Ren</b>
# PB288	The molybdenum isotope composition of modern and ancient stromatolites <b>Ms. Marie Thoby</b>
# PB289	Unusual very positive enrichment of $^{13}\text{C}$ in carbonate sediments deposited in modern hypersaline environment, Lagoa Salgada, Brazil: Indicator of salinity controlled metabolic processes <b>Dr. Crisogono Vasconcelos</b>
# PB290	Microbialite development in Quaternary reefs : the nature of the problem <b>Dr. Gilbert Camoin</b>
# PB291	Textural and geochemical characteristics, and process of formation, of ooids in the Mesoarchaeon Pongola Supergroup, South Africa <b>Prof. Axel Hofmann</b>
# PB292	Large stromatolites around the K-P boundary in northern Patagonia, Argentina <b>Dr. Beatriz Aguirre-Urreta</b>
# PB293	Genesis of the Moonmilk deposits at Sahastradhara cave, India: Some geochemical, mineralogical and microbiological observations <b>Prof. Ramanathan Baskar</b>

### Wednesday - Posters

17:45–19:00

### T3.P3 - Public Sector Geoscience and Geological Surveys Exhibition

PAPER #	PAPER TITLE & AUTHOR
# PB294	An integrated approach to the interpretation of high-resolution airborne geophysical and remote sensing data to simplify geological mapping and exploration for Warmbad area, southern Namibia <b>Mr. Ewereth Muvangua</b>
# PB295	The general map of tectonic zoning of the territory of Russia in scale 1:10000000 <b>Dr. Victor Kilipko</b>
# PB296	Geological Mapping of Costa Rica: a further step for standardization of geological map at 1:50 000 scale of Central American <b>Ms. Ana Sofia Huapaya Rodriguez-Parra</b>
# PB297	The 2016 Edition of the 1: 1 million scale geological map of the Republic of SA, and the Kingdoms of Lesotho and Swaziland <b>Mr. Coenraad De Beer</b>
# PB298	Geological mapping of Burgersdorp and Katberg formations, Whittlesea area, South Africa <b>Ms. Beatrice Otunola</b>



# PB299	The Regional Geological Setting of the Haib Porphyry-Copper Deposit, southern Namibia <b>Mr. Gerhard Shifotoka</b>
# PB300	Integrated geophysical interpretation over Uheib farm, south-east of Namibia <b>Mr. Ismael Zaaruka / Mr. Simeon Shilamba</b>
# PB301	The late-Namaqua Sperlingsputs Shear Zone System, Haib region, southern Namibia <b>Mr. Jason Indongo</b>
# PB302	Geological history and the development of Brendan's dome <b>Mr. Joseph Amakali</b>
# PB303	Crustal evolution in the West African Archaean Craton in Sierra Leone, Liberia, Guinea and Ivory Coast: A review <b>Prof. Hugh Rollinson</b>
# PB304	Solving Geo-Environmental Problems and Local Government Institute: Example of Chiba Prefecture government <b>Dr. Osamu Kazaoka</b>

## Wednesday - Posters

17:45–19:00

### T4.P3 - Climate Change Studies Exhibition

PAPER #	PAPER TITLE & AUTHOR
# PB305	Study on limestone horizontal corrosive grooves in karst depressions <b>Prof. Yuhui Li</b>
# PB306	Shilin Stone Forests, Yunnan, China <b>Dr. Martin Knez</b>
# PB307	Seasonal and inter-annual variability in drip water and environmental parameters of Kaite Cave, N Spain: implications for paleoclimate reconstructions <b>Dr. Maria J. Turrero</b>

## Wednesday - Posters

17:45–19:00

### T40.P3 - Marine Geosciences and Oceanography Exhibition

PAPER #	PAPER TITLE & AUTHOR
# PB308	Study of a Rebuilt Deep Water Reservoir in Qiongdongnan Basin, South China Sea <b>Mr. Lulu Cai / Mr. Chuncheng Liu</b>
# PB309	An onshore-offshore record of sedimentation and shoreline shift through two glacial-interglacial cycles <b>Dr. Hayley Cawthra</b>
# PB310	Late Quaternary shell concentrations on the continental shelf of southern Korea: bioclastic fabrics and paleoenvironments <b>Dr. Tae Soo Chang</b>
# PB311	Paleoenvironmental change during the late Holocene in the southeastern Yellow Sea, Korea <b>Prof. Hyen Goo Cho</b>
# PB312	The Scan Basin contourite fan, southern Scotia Sea (Antarctica). High-resolution seismic stratigraphy and oceanographic implications <b>Dr. Marga Garcia</b>
# PB313	Morphology of small-scale contouritic depositional systems Associated to topographic heights at the Galician margin (NW-Spain) <b>Mrs. Julia Haberkern</b>
# PB314	Interaction between intermediate/deep-water masses and the sedimentation in a mid-slope canyon (off Argentina/Uruguay, 38°S) during the last 25 kyr <b>Ms. Grit Warratz</b>

## Wednesday - Posters

17:45–19:00

### T41.P3 - Arctic and Antarctic Geoscience Exhibition

PAPER #	PAPER TITLE & AUTHOR
# PB315	Geochemical prospecting of raw hydrocarbons in the system: continental margin - the Arctic Ocean floor <b>Dr. Alexander Kremenetskiy</b>
# PB316	Lithospheric Evolution, Ultramafic Magmatism and Diamond Potential of the Norwegian Lapland <b>Dr. Pavel Kepezhinskas</b>
# PB317	Deformation on Bering Glacier, Alaska: Modeling of continuum damage with comparisons to aerial observations <b>Mr. Thomas Trantow</b>
# PB318	Surges of outlet glaciers from the Drangajökull ice cap, northwest Iceland <b>Prof. Anders Schomacker</b>





## Wednesday - Posters

17:45–19:00

T44.P3 - Palaeontology and Palaeo-anthropology  
Exhibition

PAPER #	PAPER TITLE & AUTHOR
# PB319	Phosphatized Quadrapyrgites from the Early Cambrian of South China <b>Prof. TieQuan Shao</b>
# PB320	Eopriapulites sphinx from the Early Cambrian of South China <b>Prof. Yunhuan Liu</b>
# PB321	Observations on the Lower Cambrian ichnospecies Monomorphichnus multilineatus recorded from the Marwar Supergroup, India: A review <b>Dr. Mukund Sharma</b>
# PB322	Early Cambrian palaeobiogeography of the Zhenba–Fangxian Block (South China): Independent terrane or part of the Yangtze Platform? <b>Dr. Ben Yang</b>
# PB323	Xixiang Biota of the Early Cambrian from the Northern Yangtze Platform <b>Prof. TieQuan Shao</b>
# PB324	New Discoveries in the late Neoproterozoic of Namibia: New Material-New Analysis <b>Dr. Patricia Vickers Rich</b>
# PB325	An Early Multicellular Holozoan from the 1 Ga Torridon Group, Scotland <b>Dr. David Wacey</b>
# PB326	New Discoveries in the late Neoproterozoic of Iran <b>Dr. Patricia Vickers Rich</b>
# PB327	Diversification of early life: microfossils of the c. 2.4 Ga Turee Creek Group, Western Australia <b>Ms. Erica Barlow</b>
# PB328	Multicellular macrofossils from the Tonian Liulaobei Formation, North China <b>Mr. Qing Tang</b>
# PB329	Did early eukaryotes thrive in ancient lakes? New evidence from the Torridonian Supergroup, NW Scotland <b>Dr. Eva Stüeken</b>
# PB330	New Small Shelly Fossils Acanthocassis from the Early Cambrian

## Wednesday - Posters

17:45–19:00

T45.P3 - Instrumental, experimental and laboratory-based developments in the Geosciences  
Exhibition

PAPER #	PAPER TITLE & AUTHOR
# PB331	Determination of Lanthanides and trace elements in geological samples using Inductively Coupled Plasma Mass Spectrometry (ICPMS) Technique <b>Dr. Manik Chandra Saha</b>
# PB332	Insight into the use of ion beam based techniques for energy related issues in earth sciences <b>Dr. Nelly Toulhoat</b>
# PB333	SumXcore technology to improve the analysis of geological materials <b>Dr. Uwe König</b>
# PB334	Role of backstop indenter shape on the evolution of curved thrust traces in contractional orogens: An experimental investigation <b>Ms. Mansi Jain</b>
# PB335	Preliminary study of altered carbonatites from Catanda, Angola <b>Dr. Krystyna Wolkowicz</b>
# PB336	A new methodology for microfossiliferous recovery: the use of the equipment Selfrag <b>Mr. Guilherme Caixeta</b>
# PB337	Coupling tomography techniques for ore characterisation in leaching studies <b>Dr. Megan Becker</b>
# PB338	Preservation technique for fossil fish and leaf impressions in papyraceous shale, from the Quiricó Formation, Lower Cretaceous from São Francisco basin, State of Minas Gerais, Brazil <b>Ms. Amanda Moreira Leite</b>

## Wednesday - Posters

17:45–19:00

T47.P3 - Phanerozoic Earth History, Stratigraphy and the Geologic Time Scale  
Exhibition

PAPER #	PAPER TITLE & AUTHOR
# PB339	Microbial mats in the terrestrial Lower Triassic of North China and implications for the Permian-Triassic mass extinction <b>Mr. Dao Liang Chu</b>
# PB340	Stratigraphy and sea-level fluctuations around the Santonian-Campanian boundary interval <b>Prof. Michael Wagreich</b>



# Wednesday 31 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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