



T47.1 - Anthropocene: Utility and Definition *Date* **Monday, 29 August 2016** *Time* **14:00** *to* **15:30**
Chair *Room* **Reg Foyer 1**

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

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

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08:00	08:30	2956 The Carboniferous World: Assembly of Pangaea and Onset of late Paleozoic Glaciations	Dr. Barry Richards	Keynote
08:30	08:45	4008 Characterization of conodont biostratigraphy in the basal Moscovian boundary interval at the Naqing section, Loudian, Guizhou, South China	Dr. Lance Lambert	
08:45	09:00	1779 Ice volume and paleoclimate history of the Late Paleozoic Ice Age from conodont apatite oxygen isotopes from Naqing (Guizhou, China)	Dr. Bo Chen	
09:00	09:15	5024 Climatic control on salinity gradient across the US Midcontinent Sea during Pennsylvanian glacio-eustatic highstands	Dr. Michael Joachimski	
09:15	09:30	1689 Refining the Carboniferous-Permian Successions of the Paraná Basin, Brazil via High-Resolution Zircon U-Pb CA-TIMS Dating	Mr. Neil Griffis	
09:30	09:45	2500 Linked Shifts in Glacial-Interglacial CO ₂ , Climate and Terrestrial Carbon Cycling During Earth's Last Icehouse	Dr. Isabel Montanez	
09:45	10:00	3727 The evidence of the Late Paleozoic Glaciation in South China	Dr. Xiangdong Wang	

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10:30	11:00	710 The terrestrial end-Permian mass extinction in South China	Dr. Shuzhong Shen	Keynote
11:00	11:15	3114 Permian Conodont Biostratigraphy	Prof. Charles Henderson	
11:15	11:30	1867 Permian carbonate ooids from the Baoshan Block, China and other Cimmerian terranes with paleogeographic and paleoclimatic significance	Dr. Hao Huang	
11:30	11:45	2147 Transitional carbonate facies from cool- to warm-water settings: A Permian case from the Baoshan Block in western Yunnan, China	Prof. Xiaochi Jin	
11:45	12:00	1534 Atlantic- to Andean type basin inversion along the southern margin of Gondwana: U-Pb detrital zircon evidence from the Cape- and lower Karoo Supergroups and correlatives in Argentina and the Falkland Islands.	Dr. Clarisa Vorster	

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14:00	14:15	1871 Detrital zircon age population study from rocks of the Karoo Supergroup, Eastern Cape Province of South Africa	Ms. Laura Bowden	
14:15	14:30	942 The Permian-Triassic succession in the southern Sydney Basin, southeastern Australia: a unique and complete stratigraphic record of global changes during the Palaeozoic-Mesozoic transition	Prof. Guang R. Shi	
14:30	14:45	3740 Seismites in transgressive Lower Gondwana (Permian) succession, West Bokaro Coalfield, India: tectono-sedimentary and sequence stratigraphic implications	Dr. Biplab Bhattacharya	
14:45	15:00	3037 Impoverished hard substrate biotas in the aftermath of the end-Permian mass extinction: evidence from East Greenland	Dr. Michal Zaton	
15:00	15:30	4545 Collapse and rebuilding of marine ecosystems during the P-Tr transition in Gondwana world	Prof. Zhong-Qiang Chen	Keynote

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16:00	16:15	3822	Terrestrial Permian-Triassic Transitional Sequence in North China: Implication for the correlation with the Marine Events in South China	Dr. Jinnan Tong
16:15	16:30	5112	The Choiyoi silicic large igneous province of Argentina and Chile and its possible linkage to middle Permian climate change and mass extinction	Dr. David Kimbrough
16:30	16:45	2055	The Capitanian/Wuchiapingian mass extinction and Kamura Event from tropical to Boreal zones (China, South Primorye [Russia], and Spitsbergen)	Dr. Olga Kossovaya
16:45	17:00	3867	A Refined Magnetic Polarity Stratigraphy and Paleomagnetic Pole for Upper Permian and Lower Triassic Strata Deposited Across the End-Permian Extinction Event, West Texas (USA)	Professor John Geissman
17:00	17:15	3856	The Bletterbach section (S-Alps, N-Italy): a unique record of a low-latitude late Permian terrestrial ecosystem	Dr. Massimo Bernardi
17:15	17:30	3645	Recovery after the end-Permian biotic crisis in the Boreal Sea	Prof. Kliti Grice
17:30	17:45	1690	Ecologic Restructuring After the Permo-Triassic Extinction: A geochemical and paleoecological case study of the Middle Triassic of low-latitude eastern Panthalassa	Dr. Margaret Fraiser

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	5346 Eccentricity Scale Conodont Oxygen and Strontium Isotopic Trends During Carboniferous Climate Transitions	Dillon Osleger
	4128 Taxonomic remarks and stratigraphic implications of Cloudina species in Neoproterozoic strata	Mr. Rodrigo AdóRno Mr. Dermeval do Carmo
	4404 Uppermost Permian to Upper Triassic conodont zonation and carbonate carbon isotopes from Kamura section, Southwest Japan	Dr. Feihong Ye
	5393 Anthropocene, Vernal Point, Solar cycle and el Niño 2015-2016	Mr. Teodosio Chavez-Campos
	5196 Earth history visualization system for Gondwana basins	Ms. Rebecca Bobick Prof. James Ogg
	2899 Nearshore to offshore facies correlation of the Turonian-Coniacian stage boundary in the Bohemian Cretaceous Basin (Czech Republic)	Mr. Stanislav Cech
	4398 Progressive growth of the Scandinavian Ice Sheet across the south-western Baltic Sea Basin during Marine Isotope Stage 2	Mr. Michael Kenzler
	2567 The first detailed record of Permian-Triassic boundary sediments in deep-water facies in North-East Asia (Kolyma-Omolon region)	Dr. Alexander Biakov
	2486 Calcareous nannoplankton and Foraminifera biostratigraphy of the Upper Cretaceous St Lucia Formation (Nibela Peninsula, South Africa)	Dr. Maria Ovechkina
	4512 Biostratigraphy of the Valongo Formation (Ordovician) of northern Portugal	Dr. Artur Sá
	3107 MICROFACIES AND DIAGENETIC ANALYSIS OF LOCKHART LIME STONE, SHAH ALLAH DITTA AREA ISLAMABAD, PAKISTAN	M.A. Khan
	2774 Factors influencing on formation of chalk-marl couplets in Turonian-Santonian succession, Kopet-Dagh basin, NE Iran	Ms. Leili Fateh Bahari
	1259 Mercury deposition and mercury isotopes in sections straddling the Cretaceous–Paleogene boundary: link to volcanism	Dr. Alcides Sial
	1591 The Stratigraphic Table of Germany revisited: 2016	Dr. Manfred Menning
	2480 Calcareous nannoplankton distribution around the Campanian–Maastrichtian boundary on the Aktulagaj Plato (Kazakhstan)	Dr. M.N. Ovechkina
	4236 Upper Viséan through Gzhelian conodont zonation in South China	Dr. Yuping Qi
	924 Implications of new data for late Cretaceous marine transgressions in central peninsular India	Prof. Sunil Bajpai
	3911 Litho- And Chronostratigraphy of Bukit Merah, Taiping Permo-Triassic Semanggol Formation	Mr. MOHAMAD SHAUFI SOKIMAN Mr. MD YAZID MANSOR
	2560 Bivalve biostratigraphy of terminal Permian (pre-Otoceras part) of the South Verkhoysk Region (Northeast Asia)	Dr. Alexander Biakov
	2262 The characteristic and geodynamic origin of stratigraphic sequence structure in the compressional basin: a Jurassic example from the Fukang sag in the Junggar basin	Mr. Qisong Xu
	925 Retrieving a Late Cretaceous Major Plate Reorganization Event of Pacific Ocean, Age 87-89 Ma (Late Turonian/ Coniacian): Insight from Eastern Asia and Significance to Pacific Evolution	Dr. Ying Song
	2812 Towards a calibrated astronomical timescale for the Mid Ordovician	Dr. Christian Rasmussen

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	1204 Neogene terrestrial chronostratigraphic sequence of China based on land mammalian ages	Dr. Tao Deng
	4144 Biostratigraphy of Neoproterozoic strata based on invertebrate species from South America	Mr. Rodrigo AdôRno Mr. Dermeval do Carmo
	5031 A field reconnaissance to locate the base of the Changhsingian Stage in the Karoo Basin, South Africa	Mr Lwazi Magadaza
	4131 Three-dimensional Cloudina specimens extraction from limestone of the Nama Group, Namibia	Mr. Rodrigo AdôRno Mr. Dermeval do Carmo
	1721 A Revised Calibration of the New Zealand Geological Timescale: NZGT2015	James Ian Raine
	1922 The correlation between the deposition and its regional tectonics in the Jurassic Yabulai Basin, Northwestern China	Mr. Haiyang Cao
	5195 Concise Geologic Time Scale 2016: a partial update of GTS2012	Prof. James Ogg
	3726 Late Barremian – early Albian climate of the northern middle latitudes: Stable O- and C-isotope evidence from brachiopods and molluscs of the Caucasus	Dr. Yuri D. Zakharov
	2462 Evidence for ancestry in taxonomic studies: Lessons from mid-Cretaceous biserial planktonic foraminifera	Dr. Brian Huber
	4299 Lower - Middle Pleistocene boundary at Chiba section and distribution situation of Byk zone, central Japan	Mr. Hideto Kimura

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08:00	08:15	3725 Earliest Triassic Ephemeral Refuge at Shangsi, China	Ms. Amanda Godbold
08:15	08:30	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	Dr. Yuri Zakharov
08:30	08:45	4000 Cycle-calibrated magnetostratigraphy and time scales for the Early and early-Late Triassic	Ms. Yang (Wendy) Zhang
08:45	09:00	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	Dr. Paul Olsen
09:00	09:15	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	Professor John Geissman
09:15	09:30	1979 Evidences of marine regression and Pangaea breakup: Triassic-Jurassic boundary from the Tethyan Salt Range, Pakistan.	Mr. SHAHID IQBAL
09:30	09:45	4818 The vegetation changes and terrestrial ecosystem variations across the Triassic-Jurassic transitions in the Sichuan Basin, China: progresses and perspectives	Prof. Yongdong Wang

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10:30	10:45	3131 Late Triassic (Rhaetian) carbon isotope stratigraphy and depositional environments of deep neritic to basinal deposits in the Northern Calcareous Alps (Austria).	Dr. Wolfgang Mette
10:45	11:00	888 The end-Triassic conodont genus <i>Misikella</i> in the Slovenian Basin	Dr. Tea Kolar-Jurkovšek
11:00	11:15	1960 The DARIUS Palaeotectonic Maps: Evolution of the Central Tethys domain since the Middle Permian	Mr. Eric Barrier
11:15	11:30	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.	Dr. Rafał Szaniawski
11:30	11:45	3420 Eastern Tethys Development in Northeastern India and India – Asia Collision	Prof. Vinod Tewari
11:45	12:00	3474 Palaeogeographic evolution of the Central-Western Mediterranean area in the last 50 Myr: stratigraphical and palaeontological constraints	Dr. Fabio Massimo Petti

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

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

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	1831 Stratigraphy and sea-level fluctuations around the Santonian-Campanian boundary interval	Prof. Michael Wagreich
	3491 Microbial mats in the terrestrial Lower Triassic of North China and implications for the Permian-Triassic mass extinction	Mr. Dao Liang Chu

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08:00	08:15	2977 Integrated planktonic foraminiferal and calcareous nannofossil biostratigraphy and paleoenvironmental inferences for Turonian sediments from Tanzania	Dr. Brian Huber
08:15	08:30	3785 Middle to Upper Cretaceous High Frequency Cyclic Records on the Arabian Carbonate Platform, SE Turkey; Climatic and Tectonic Controls	Dr. Ismail Omer Yilmaz
08:30	08:45	1234 Depositional environments during OAE1a (Early Aptian) in the Eastern Russian Platform and during OAE1b (Early Albian) in the Middle Caspian: new data	Prof. Dr. Svetlana Zorina
08:45	09:00	4021 Significance of Cretaceous stratal records in Japanese Islands: forearc-trench systems	Prof. Hisao Ando
09:00	09:15	2488 An astrochronological framework for the Tethyan Campanian	Mr. Erik Wolfgring
09:30	09:45	3295 First stratigraphically complete Coniacian-Santonian boundary record from the Ruvuma Basin (southern Tanzania, East Africa): planktonic foraminiferal, geochemical and paleoceanographic patterns	Prof. Maria Rose Petrizzo
09:45	10:00	2533 Terrestrial climate and carbon cycle of East Asia in the Late Cretaceous: Records from the Continental Scientific Drilling of the Songliao Basin	Prof. Chengshan Wang

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10:30	10:45	1005 Climate-sensitive sediments of the Cretaceous in South China	Xianghui Li	
10:45	11:00	4786 Early angiosperms of Siberia	Dr. Lina Golovneva	
11:00	11:15	4800 New records of fossil coniferous wood from the Early Cretaceous Jehol Biota in western Liaoning, NE China and palaeoclimate implications	Dr. Yongdong Wang	
11:15	11:45	3714 Defining the Lower–Middle Pleistocene Subseries boundary	Professor Martin Head	Keynote
11:45	12:00	2451 The Lower-Middle Pleistocene boundary at the Montalbano Jonico section (Southern Italy)	Prof. Maria Marino	

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14:00	14:15	3423 Authigenic $^{10}\text{Be}/^{9}\text{Be}$ ratio signature of the Brunhes/Matuyama transition in the Montalbano Jonico marine succession	Quentin Simon
14:15	14:30	2856 Defining the Upper Pleistocene Subseries: assessing Antarctic ice cores for a potential global boundary stratotype section and point (GSSP)	Prof. Martin Head
14:30	14:45	4176 Intercomparing the boundaries of the youngest two interglacials: Base MIS1 vs Base MIS5e, Base Holocene vs Base Last Interglacial, Base Middle Holocene vs Base Eemian.	Dr. Kim Cohen
14:45	15:00	3571 OSL-based loess chronologies in West and Central Asia: how precise and reliable?	Prof. Manfred Frechen
15:00	15:15	1699 Characteristics of lower-order unconformity in carbonates and its significance for reservoir development: A Lower-Ordovician unconformity in Tarim Basin, NW China	Professor Tailiang Fan
15:15	15:30	2861 Detailed litho-stratigraphy and sedimentary environment of upper part of Kokumoto Formation with the L□M Pleistocene boundary	Dr. Osamu Kazaoka

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16:00	16:15	1440 Palaeoenvironmental shifts and sequence analysis of the Early-Middle Devonian Bokkeveld Group in the Clanwilliam Sub-basin of South Africa	Mr. Cameron Penn-Clarke
16:15	16:30	4375 Multi-scale stratigraphic forward modelling of the Surat Basin for geological storage of CO2	Dr. Cedric Griffiths
16:30	16:45	4971 Using the fluvial-tidal transition zone (FTTZ) in sequence stratigraphic interpretation (Plio-Pleistocene Talparo and Erin Formations, Trinidad)	Ms Annalize McLean
16:45	17:00	1236 Characteristics of Low-order unconformities and controlling on karst reservoir of Middle-lower Ordovician in SW Tarim Basin, China	Dr. Jie Liu
17:00	17:15	4367 Recent Developments in Stratigraphic Forward Modelling	Dr. Cedric Griffiths
17:15	17:30	2291 Ordovician sea-level changes: one global curve or two semi-global ones?	Prof. Andrei Dronov
17:30	17:45	4384 Sedimentology and high-frequency sequence stratigraphy of Middle-Lower Ordovician Yingshan Formation in the Tahe Oilfield of Tarim Basin, Northwest China	Dr. Xiaoqun Yang

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08:00	08:30	2472 A new approach to quantifying stratigraphic resolution, integrating chemostratigraphic data, and testing global stratotypes	Dr. Junxuan Fan	Keynote
08:30	08:45	1099 Chemostratigraphy of the Ediacaran-Cambrian Lesser Himalaya, India, Eastern Gondwana, and correlation with South America, Western Gondwana	Prof. Vinod Tewari	
08:45	09:00	4100 New carbon isotope data on the Precambrian-Cambrian interval of the Tommotian stage hypostratotype - Isit' Section (Lena River, Siberian Platform)	Dr. Pavel Parkhaev	
09:00	09:15	1654 Multiproxy approach and HI-RES stratigraphy: Contrasting examples of degree of precision attained in correlation of mid-Palaeozoic strata	Dr. Ladislav Slavik	
09:15	09:30	4577 Ordovician conodonts of the South Urals: biogeographic affinity of the East European Platform's eastern margin	Dr. Tatiana Tolmacheva	
09:30	09:45	5156 Katian (Upper Ordovician) – Aeronian (Lower Silurian) carbon isotope excursions in South China	Prof. Junxuan Fan	
09:45	10:00	4085 Regional Framework for the distribution of LCT and NYF signature in Zambezi pegmatites, Mozambique	Dr. João Reynolds Marques	

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10:30	10:45	4745 The Ordovician of the west Sørkapp Land (Southern Spitsbergen)	Dr. Tatiana Tolmacheva
10:45	11:00	2685 Greenhouse sea-level changes: Growing evidence for aquifer-driven eustasy	Professor Michael Wagreich
11:00	11:15	1905 Early mining geochemical anomalies at around 3000 years BP as a potential stratigraphic marker for the base of an early Anthropocene	Professor Michael Wagreich
11:15	11:30	552 Conodont zonation for the Lower Triassic of western Tethys - a case study from Slovenia	Dr. Tea Kolar-Jurkovšek