

6<sup>th</sup> International Archean Symposium (6ias)  
25 - 27 July 2023 - The Esplanade Hotel, Fremantle, Western Australia



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## PROGRAM SCHEDULE

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Room 1 - Orion

Room 2 - Pleiades

Time	Chairs	Theme	Type	Speaker	Title
8:30 – 8:45	Martin Van Kranendonk	Opening remarks			
8:45 – 9:00		Welcome to country			
9:00 – 9:15		T5	Keynote	Irina Artemieva	Heterogeneous lithospheric mantle and kimberlites sampling
9:15 – 9:30					
9:30 – 9:45		T2	Keynote	Eva Stüeken	Nitrogen cycling on the Archean Earth: assessing the role of lighting and hydrothermal vents
9:45 – 10:00					
10:00 – 10:30	Morning tea/coffee				
10:30 – 10:45	Ping Zhang & Klaus Gessner	T5	Invited	Ming Tang	Endogenic oxidation and the formation of Archean TTG crust
10:45 – 11:00		T5	Oral	Hans Thybo	Craton Modification as identified from Geophysical Observation
11:00 – 11:15		T5	Oral	Alex McCoy-West	Using stable and radiogenic Nd isotopes to trace secular evolution of the Archean crust
11:15 – 11:30		T5	Oral	Derek Wyman	Continental growth at Neoproterozoic cratonic margins
11:30 – 11:45		T5	Oral	Liang Zhao	Reactivation of craton margins: insight from seismic images
11:45 – 12:00		T5	Oral	Andy Calvert	Archean tectonic processes from seismic reflection surveys of the Superior, Yilgarn, and Pilbara cratons
12:00 – 12:15		T5	Oral	Weronika Gorczyk	Plate tectonic limits on the assembly of cratonic Australia
12:15 – 12:30		T5	Oral	Yongjun Lu	Insights from the c. 1.8 Ga Bridget Suite: Unveiling the youngest felsic magmatism in the Pilbara Craton
12:30 – 13:30	Lunch				
13:30 – 13:45	Ming Tang & Irina Artemieva	T5	Oral	David Mole	Crustal evolution of the south-east Superior Craton and insights into Archean geodynamics
13:45 – 14:00		T5	Oral	David Snyder	Interdisciplinary analysis of mantle structure suggests a North Caribou superterrane in the Superior craton, North America
14:00 – 14:15		T5	Oral	Chong Ma	New geophysical, geologic, and geochemical data from the western Wabigoon and Winnipeg River terranes: Implications for Neoproterozoic geodynamics in the western Superior craton
14:15 – 14:30		T5	Oral	Phil Thurston	A Cratonic Scale Early ensialic Successor Basin in the Superior Province
14:30 – 14:45		T5	Oral	Rocio Pedreira Perez	Crustal growth and tectonometamorphic evolution of the La Grande, Nemiscou and Opatica subprovinces (Superior Province, Canada): a long-lasting history
14:45 – 15:00		T5	Oral	Yirou Xu	Interrogating the record of Archean tectonics from metamorphism in the Minnesota River Valley, USA (Superior Province)
15:00 – 15:15		T5	Oral	Jaana Halla	Archean gneiss complexes in Finnish Lapland, northern Fennoscandia
15:15 – 15:45	Afternoon tea/coffee				
15:45 – 16:00	Catherine Gill & Yongjun Lu	T5	Oral	G. H. Grantham	The extent of the Kalahari Craton
16:00 – 16:15		T5	Oral	Rose Turnbull	Lithospheric architecture and evolution of the Archean NE Congo craton revealed by O-Hf isotopes in zircon
16:15 – 16:30		T5	Oral	Raju Sunder	Early earth surface processes, paleoclimate, and crust-mantle interactions: insights from Dharwar craton, India
16:30 – 16:45		T5	Oral	Jonas Kaempf	Campaign-style in situ Lu–Hf garnet geochronology to constrain the timing of early Archean metamorphism in the Western Dharwar Craton
16:45 – 17:00		T5	Oral	Lopamundra Saha	Paleo-Mesoproterozoic tectonics along the margins of Archean Bundelkhand Craton North-Central India: constraints from U-Pb SHRIMP Zircon ages and supercontinent connections
17:00 – 17:15		T5	Oral	Bryant Ware	A multi-layer isotopic approach to explore the crustal basement of Australia
17:15 – 17:30		T5	Oral	Zachary Sudholz	Xenolith Constraints on the Lithospheric Architecture and Mantle Geochemistry of the South Australian Craton

Time	Chairs	Theme	Type	Speaker	Title
8:30 – 8:45					
8:45 – 9:00					
9:00 – 9:15	Keynote talks in Room 1				
9:15 – 9:30					
9:30 – 9:45					
9:45 – 10:00					
10:00 – 10:30	Morning tea/coffee				
10:30 – 10:45	Janaina Avila & Nadia Drabon	T2	Invited	Raphael Baumgartner	Stromatolites from the 3.48 billion-year-old Dresser Formation: crossroads between geology and biology
10:45 – 11:00		T2	Oral	Mimi Chen	Atmospheric and hydrothermal sulfur isotope signatures recorded in Archean deep marine sedimentary pyrites from the Yilgarn Craton, Western Australia
11:00 – 11:15		T2	Oral	Nadja Drabon	The effect of the giant 3.26 Ga meteorite impact on the early surface environment and life
11:15 – 11:30		T2	Oral	Prasanta Kumar Mishra	Geochemical constraints on the origin and depositional setting of the Kabirdham Banded Iron Formations, Chilpi Group, India
11:30 – 11:45		T2	Oral	Therese Morris	Storm Deposits in Microbialite systems past and present: Examples from Western Australia
11:45 – 12:00		T2	Oral	Janaina Avila	Sulfur 4-isotope mass-independent fractionation signature of pyrite in some Isua (Greenland) dolostones: microbial seawater sulfate reduction 3700 million years ago
12:00 – 12:15		T2	Oral	Martin van Kranendonk	A review of the geological setting of the stromatolite-bearing, c. 3.48 Ga Dresser Formation (Pilbara, Australia)
12:15 – 12:30		T2	Oral	Kosei Yamaguchi	Biomarker imaging by MALDI-TOFMS: Implications for Archean oxygenic photosynthesis and assessment of contamination
12:30 – 13:30	Lunch				
13:30 – 13:45	Catherine Spaggiari & Nicolas Thebaud	T2	Oral	Axel Schmitt	Zircon preserving isotopic biosignatures in graphitic inclusions over half a billion years
13:45 – 14:00					
14:00 – 14:15					
14:15 – 14:30		T7	Oral	Svetlana Tessalina	Proterozoic Pb isotope history recorded in Archean Pilbara conglomerate gold – pilot study
14:30 – 14:45		T7	Oral	Michael Doublier	Convergent margin metallogensis constrains onset of subduction on Earth
14:45 – 15:00		T7	Oral	Bruno Lafrance	Contrasting dome-and-keel and linear accretionary architectures in the eastern Wabigoon subprovince, Archean Superior Province, Canada: Implications for gold mineralization
15:00 – 15:15		T7	Oral	Gyorgyi Tuba	Towards a generalized model of hydrothermal fluid evolution in orogenic gold systems: A systematic study from the Abitibi greenstone belt (Canada)
15:15 – 15:45	Afternoon tea/coffee				
15:45 – 16:00	Catherine Spaggiari & Patrick Mercier-Langevin	T7	Oral	Stéphane De Souza	Gold mineralization and remobilization in metamorphosed and polydeformed Archean rocks of the Superior Province, Québec: Insights from the Cheechoo deposit and its auriferous pegmatites
16:00 – 16:15		T7	Oral	Marc Bardoux	Rhyacian gold of the Guiana Shield
16:15 – 16:30		T7	Oral	Celestine Berthier	Structural evolution of the Nyanzaga and Kilimani gold deposits, Sukumaland Greenstone Belt, Tanzania Craton
16:30 – 16:45		T7	Oral	Quentin Masurel	Deep crustal architecture of the Archean Yilgarn Craton: insights from multidisciplinary data integration, geological validation, and implications for gold exploration targeting
16:45 – 17:00		T7	Oral	Sumail Sumail	Insights into the formation of high-grade gold mineralisation at the 10 M oz. Jundee gold camp in Western Australia
17:00 – 17:15		T7	Oral	Laura Petrella	Carbon contribution to forming high-grade gold mineralisation
17:15 – 17:30		T7	Oral	Neil Phillips	Genesis of Archean goldfields

Room 1 - Orion

Room 2 - Pleiades

Time	Chairs	Theme	Type	Speaker	Title
8:30 – 8:45	Graham Begg & Simon Wilde	T1	Keynote	Martin Whitehouse	Perspectives and progress on Earth's Hadean evolution
8:45 – 9:00					
9:00 – 9:15		T4	Keynote	Kuo-Lung Wang	Archean lithospheric mantle beneath Proterozoic Central Asia Orogenic Belt
9:15 – 9:30					
9:30 – 9:45		T7	Keynote	Patrick Mercier-Langevin	Convergent margin metallogenic cycling during the Archean: insights from the Abitibi and other Archean terranes
9:45 – 10:00					
10:00 – 10:30	Morning tea/coffee				
10:30 – 10:45	Huaiyu Yuan & Hans Thybo	T5	Oral	Jian Zhang	Neoproterozoic Vertical Tectonism in eastern North China Craton: Structure, Metamorphism and Numerical Modeling
10:45 – 11:00		T5	Oral	Jianli Kang	Subduction of continental crust in the Paleoproterozoic: Insights from ~1.9 Ga nepheline syenite in the North China Craton
11:00 – 11:15		T5	Oral	Wenxuan Li	Paleoproterozoic tectonic evolution from subduction to collision of the Khondalite Belt in North China: Evidence from multiple magmatism in the Qianlishan Complex
11:15 – 11:30		T5	Oral	Zhen-Xin Li	Linking the Paleoproterozoic tectono-magmatic lull with Archean supercraton: a geochemical study on the early Paleoproterozoic rocks in the North China Craton
11:30 – 11:45		T5	Oral	Dan Wang	Exhumation of an Archean Granulite Terrane by Paleoproterozoic Orogenesis: Evidence from the North China Craton
11:45 – 12:00		T5	Oral	Xi Wang	Late Archean accretion of continental crust through oceanic subduction in the North China Craton
12:00 – 12:15		T5	Oral	Alan Aitken	Proterozoic magmatic destabilisation and refertilisation of the Yilgarn Craton lithosphere
12:15 – 12:30		T5	Oral	Nicolas Roberts	Internal structures and flow patterns of the Mt Edgar dome, East Pilbara Terrane using anisotropy of magnetic susceptibility (AMS)
12:30 – 13:30	Lunch				
13:30 – 13:45	Weronika Gorczyk & Jian Zhang	T5	Oral	Christopher Phillips	Inter-dome sedimentary response to vertical tectonics in the pre-orogenic Yilgarn Craton
13:45 – 14:00		T5	Oral	Naomi Tucker	Ultra-high thermal gradient granulites in the Narryer Terrane, Yilgarn Craton, Western Australia, provide a window into the composition and formation of Archean lower crust
14:00 – 14:15		T5	Oral	Ivan Zibra	Neoproterozoic tectonic evolution of the Yilgarn Craton (Western Australia)
14:15 – 14:30		T5	Oral	Tim Ivanic	Formation of the Yilgarn protocraton by rift-related magmatism from 3.01 to 2.92 Ga
14:30 – 14:45		T5	Oral	Matt DePaoli	Refining key constraints for the tectonometamorphic evolution of the Neoproterozoic eastern Youanmi margin, Yilgarn Craton
14:45 – 15:00		T5	Oral	Emily Stoll	A modern analogue for partial convective overturn basins: Provenance and sedimentology of the Parriott salt minibasin
15:00 – 15:15		T5	Oral	Ping Zhang	Seismic imaging of the southwest Yilgarn Craton with ambient noise tomography
15:15 – 15:45	Afternoon tea/coffee				
15:45 – 16:00	David Mole & Imogen Fielding	T5	Oral	Catherine Gill	Unravelling Archean Continental Evolution: Insights from the boundary between the Youanmi and South West Terranes, Yilgarn Craton (Western Australia)
16:00 – 16:15		T5	Oral	Fawna Korhonen	Elevated radiogenic heat production as a thermal driver for Neoproterozoic metamorphism in the southwest Yilgarn Craton, Australia
16:15 – 16:30		T5	Oral	Nico Thebaud	Structural and lithostratigraphic record of the Agnew Wiluna Belt: tectonic implications for the Yilgarn Craton
16:30 – 16:45		T5	Oral	Anthony Clarke	Where did all the 2 Ga grains go? Detrital zircon and apatite trace enigmatic Yilgarn Craton rift-magmatism
16:45 – 17:00		T5	Oral	Ravi Schreefel	Crustal growth in the Archean: Insights from zircon petrochronology of the far-east Yilgarn Craton
17:00 – 17:15		T5	Oral	Azim Rossalim	New workflow for the spatial prediction of isotopic data: Example from the Neoproterozoic Yilgarn Craton
17:15 – 17:30					

Time	Chairs	Theme	Type	Speaker	Title
8:30 – 8:45	Keynote talks in Room 1				
8:45 – 9:00					
9:00 – 9:15					
9:15 – 9:30					
9:30 – 9:45					
9:45 – 10:00					
10:00 – 10:30	Morning tea/coffee				
10:30 – 10:45	Marc Bardoux & Mark Lindsay	T7	Oral	Patricia Durance	Big Data and Machine Learning is Impacting Our Understanding of Archean Mineral Systems: Targeting Li-bearing Pegmatites.
10:45 – 11:00		T7	Oral	John Grigson	Structural controls on giant spodumene pegmatite deposits of the northern Pilbara Craton, Western Australia
11:00 – 11:15		T7	Oral	TRC Jørgensen	Illuminating transcrustal upflow zones with implications for ore localization and reusage of crustal architecture
11:15 – 11:30		T7	Oral	Hugo Olierook	Oldest magmatic Ni-Cu deposit a consequence of secular change in global tectonic regime
11:30 – 11:45		T7	Oral	Margaux Le Vaillant	The Carr Boyd intrusive complex: New insights on the sole mineralised intrusion-hosted Ni system within the Eastern Goldfields Superterrane, Yilgarn Craton, Western Australia
11:45 – 12:00		T7	Oral	Anne Brandt Virmes	Crustal S sources for komatiite hosted Ni deposits and implications for sulfide transport and deposition
12:00 – 12:15		T7	Oral	Helen McFarlane	Unravelling post-volcanic deformation of komatiite associated nickel sulphides: Cassini deposit, Yilgarn Craton
12:15 – 12:30		T7	Oral	Stefano Caruso	The origin of volatiles in the Ni-Cu-Co Ovoid deposit of the Voisey's Bay complex. New insights on the role of accessory minerals in tracing ore-forming processes
12:30 – 13:30	Lunch				
13:30 – 13:45	Neil Phillips & Margaux Le Vaillant	T7	Oral	Sandra Occhipinti	Does the underlying Archean always influence the development of Proterozoic mineralisation?
13:45 – 14:00		T7	Oral	Susanne Schmid	Proterozoic Sediment-hosted Copper Mineral Systems in the Birrindudu Basin, NT
14:00 – 14:15		T7	Oral	Samantha Russo	Assessing REE mobility during supergene and hypogene alteration and the preservation of seawater signatures in the Weld Range BIF, Western Australia
14:15 – 14:30		T7	Oral	Brahim Ayad	Radioactive mineral detection through hydrothermal alteration mapping using ASTER and airborne geophysical data: Preliminary results on Central Hoggar (Algeria)
14:30 – 14:45		T7	Oral	Julian Vearncombe	The Meso-Archean Murchison Belt, Kaapvaal Craton: an island arc with early gold mineralisation
14:45 – 15:00					
15:00 – 15:15					
15:15 – 15:45	Afternoon tea/coffee				
15:45 – 16:00	Chrs Kirkland & Ross Salerno	T1	Oral	Simon Wilde	40 years of Jack Hills research: Global contributions to zirconology and early Earth science
16:00 – 16:15		T1	Invited	Monika Kusiak	Eoarchean crust in East Antarctica
16:15 – 16:30		T1	Oral	Daniel Dunkley	Episodes of Eoarchean crustal growth and recycling in the Saglek Block of the North Atlantic Craton, Labrador
16:30 – 16:45		T1	Oral	Andreas Zametzer	New insights into the oldest crust in the Pilbara Craton
16:45 – 17:00		T1	Oral	Aaron Cavoie	Still Hunting For An Archean Impact Structure
17:00 – 17:15		T1	Oral	Rongfeng Ge	Magmatic oxygen fugacity and water content of Archean granitoids indicate subduction since the Eoarchean
17:15 – 17:30		T1	Oral	Piotr Krol	Low- $\delta^{18}\text{O}$ zircon in the Napier Complex, East Antarctica, indicates emergent land in the Eoarchean

Room 1 - Orion

Room 2 - Pleiades

Time	Chairs	Theme	Type	Speaker	Title
8:30 – 8:45	David Martin & Tim Johnson	T6	Keynote	Andrey Bekker	In search of the event-based definition for the Archean-Proterozoic boundary
8:45 – 9:00					
9:00 – 9:15		T3	Keynote	Michael Brown	Early Earth Geodynamics
9:15 – 9:30					
9:30 – 10:00	Morning tea/coffee				
10:00 – 10:15	Chunjing Wei & Amrei Lagwig	T3	Oral	Christopher Kirkland	A role for impacting in producing crustal nuclei on early Earth
10:15 – 10:30		T3	Oral	Guochun Zhao	Archean geodynamics: a result of plate tectonics?
10:30 – 10:45		T3	Invited	Priyadarshi Chowdhury	Orogenesis on early Earth was controlled by lithospheric peeling
10:45 – 11:00		T3	Oral	Shujuan Jiao	Continental thermal evolution constrained by secular change of detrital zircon trace elements
11:00 – 11:15		T3	Oral	Shoufa Lin	Neoproterozoic as a period of transition from vertical to horizontal tectonism: insights from observations in the Superior craton and numerical modelling
11:15 – 11:30		T3	Oral	Jack Lowrey	Reappraising the petrogenesis of 2820–2738 Ma magmas of the western Youanmi Terrane, Western Australia
11:30 – 11:45		T3	Oral	Daniel Wiemer	East Pilbara high heat flow mantle overturns as a record of lithospheric proto-plate formation
11:45 – 12:00		T3	Oral	Klaus Gessner	No seismic evidence for convective overturn in the East Pilbara Terrane
12:00 – 13:00	Lunch				
13:00 – 13:15	Priyadarshi Chowdhury and Shujuan Jiao	T3	Oral	Peng Liu	"High pressure" TTGs can form at low pressure
13:15 – 13:30		T3	Oral	Ruining Yao	A Gd/Dy based barometer for the petrogenesis of TTG rocks
13:30 – 13:45		T3	Oral	Amrei Ladwig	Stable and radiogenic neodymium isotope analyses of TTGs: New insights into crust formation?
13:45 – 14:00		T3	Oral	Meiyun Huang	Implication of the newly discovered ca. 2.7 Ga ultrahigh-temperature metamorphism in northern Labrador, Canada
14:00 – 14:15		T3	Oral	Kristine Nymoen	The evolving crustal architecture of the Wawa Subprovince, Superior Craton
14:15 – 14:30		T3	Oral	Liang Zhang	Thick Yangtze continental crust formed in the Mesoproterozoic
14:30 – 14:45		T3	Oral	Dingyi Zhao	The origin of Archean continental crust: Insight from water contents and oxygen isotopes of TTGs in the Eastern Block, North China Craton
14:45 – 15:15	Afternoon tea/coffee				
15:15 – 15:30	Guochun Zhao & Weronika Gorczyk	T3	Oral	Chunjing Wei	Two types of Neoproterozoic metamorphism and their tectonic implication in East Hebei, North China Craton
15:30 – 15:45		T3	Oral	Alec Brenner	Paleomagnetic records from the East Pilbara Craton of Paleoproterozoic lithospheric motion and a dipolar geodynamo
15:45 – 16:00		T3	Oral	Yebo Liu	Paleomagnetism not in favor of a long-lived Archean supercontinent
16:00 – 16:15		T3	Oral	Julian Alfing	Constraining Paleo- to Eoproterozoic metamorphism using phase equilibrium modelling and in-situ garnet Lu–Hf geochronology in the Itsaq Gneiss Complex, southwest Greenland
16:15 – 16:30		T3	Oral	Pritam Nasipuri	<i>P–T–t</i> evolution of garnet-bearing migmatites from Karimnagar Granulite Belt and their geodynamic implications
16:30 – 16:45		T3	Oral	Allen Nutman	Ultra-high-pressure to low-pressure (<250 to >1000°C/GPa) Eoproterozoic metamorphisms explained by lateral lithosphere movements
16:45 – 17:00		T3	Oral	Xiaoman Wang	Archean ultrahigh temperature event in the northwestern Superior Province, Canada
17:00 – 17:15	Closing remarks				
17:15 – 17:30					

Time	Chairs	Theme	Type	Speaker	Title
8:30 – 8:45	Keynote talks in Room 1				
8:45 – 9:00					
9:00 – 9:15					
9:15 – 9:30					
9:30 – 10:00	Morning tea/coffee				
10:00 – 10:15	Tony Kemp & Andreas Zemetzer	T1	Oral	Vickie Bennett	Geologically integrated isotopic (142Nd, 143Nd and 176Hf) data from Meso- Eoarchean terranes (SW Greenland) reveals extensive Hadean formed chemical heterogeneity
10:15 – 10:30		T1	Oral	Da Wang	The Identification of the Eoarchean Muzidian Gneiss Complex in Central China
10:30 – 10:45		T1	Oral	Kira Musiyachenko	Bimodal Hf isotope signatures in TTGs indicate a heterogeneous Archean mantle
10:45 – 11:00		T1	Oral	Ross Salerno	Age constraints on crustal overturn and juvenile granitic magmatism in the Paleoeoarchean Pilbara Craton
11:00 – 11:15		T1	Oral	Leonid Schumlyanskyy	Discovery of nearly Hadean zircon in the Ukrainian Shield
11:15 – 11:30		T1	Oral	Manuela Botero	The Paleoeoarchean record of the São Francisco craton from zircon U-Pb and Hf isotope systematics.
11:30 – 11:45		T1	Oral	Chao Wang	Palaeeoarchaeoan deep mantle heterogeneity recorded by enriched plume remnants
11:45 – 12:00		T1	Oral	Steve Reddy	Nanoscale temporal constraints on the magnetism of Jack Hills Zircons
12:00 – 13:00	Lunch				
13:00 – 13:15	Naomi Tucker & Graham Begg	T4	Invited	Joao Gabriel Motta	The extent of Archean lithosphere on Proterozoic terranes as from evidence by multiple geoscientific proxies.
13:15 – 13:30		T4	Oral	MP Manu-Prasanth	Precambrian dyke swarms of Singhbhum craton record recycled crustal components in the mantle source
13:30 – 13:45		T4	Oral	Anthony Reid	Cryptic legacy of Archean lithosphere in the Gawler Craton
13:45 – 14:00		T4	Oral	Nicolas Thebaud	Crustal growth and crustal architecture in the South West African Craton
14:00 – 14:15		T4	Oral	Graham Begg	Widespread Archean lithosphere continental foundations – Hidden from view?
14:15 – 14:30		T4	Oral	Yao Augustin Koffi	Archean to Paleoproterozoic crustal evolution in the Sassandra-Cavally domain (Côte d'Ivoire, West Africa): Insights from Hf and U-Pb zircon analyses
14:30 – 14:45					
14:45 – 15:15					
15:15 – 15:30	Fawna Korhonen & David Martin	T6	Invited	Indrani Mukherjee	Life on the edge of the Archean-Proterozoic transition
15:30 – 15:45		T6	Oral	Alex McCoy-West	Assessing temporal changes in the composition of Banded Iron Formations in the Hamersley Basin
15:45 – 16:00		T6	Oral	Kosei Yamaguchi	Redox state of the 2.2 Ga Deep Ocean: Geochemical Evidence from the Birimian Greenstone Belt, Ghana
16:00 – 16:15		T6	Oral	Sreejith Chettootty	Contrasting geochemistry of granitoid twins from southern India as a proxy for changeovers of Precambrian geodynamics
16:15 – 16:30		T6	Oral	Heinrich Bahlburg	The provenance of siliclastic sedimentary rocks of the Archean-Paleoproterozoic transition drilled in the FAR-DEEP project in Fennoscandia
16:30 – 16:45		T6	Oral	Yunpeng Sun	Marine redox state during early Tonian: evidence from Huainan and Feishui groups of North China craton
16:45 – 17:00		T6	Oral	Chuanming Zhou	Authigenic carbonate precipitation associated with anaerobic oxidation of methane in Ediacaran of South China
17:00 – 17:15					
17:15 – 17:30					