



35TH INTERNATIONAL GEOLOGICAL CONGRESS

T38.1 - Tectono-thermal evolution of Gondwana: suturing of a supercontinent

Date Monday, 29 August 2016

Time 14:00 to 15:30

Chair

Room Westin - Diaz & Da Gama

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

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

Times	Paper # Title	Speaker
	4808 Tectono-metamorphic history of granulite facies terrain of Balaram-Abu Road, North Gujarat, W. India : Implications for India –Madagascar connection in Gondwana Correlation	Dr. Manoj Limaye
	3360 Dronning Maud Land, the southern extension of Gondwana Supercontinent: Incomplete vision	Dr. Tamer Abu-Alam
	4354 Role of the Aswa Shear Zone, Uganda, in the Neoproterozoic East African Orogen	Dr. Kerstin Saalmann
	3702 Tectonic setting and provenance of the Capané Antiform, Porongos Complex, Dom Feliciano Belt, Brazil: Evidence from U-Pb ages	Ms. Daianne Francis Silva Da Silveira

Times		Paper #	Title	Speaker	
08:00	08:30	3493	Archean metamorphism and geodynamics: from episodic and local to continuous and global subduction and mobile-lid plate tectonics	Dr. Tim Johnson	Keynote
08:30	08:45	1205	Metamorphic processes in the Eoarchaeon: evidence from the 3.7-3.8 Ga Isua Greenstone Belt	Prof. Hugh Rollinson	
08:45	09:00	5026	The metamorphic history of Paleo-, Meso and Neo-Archean sedimentary rocks and associated basement along the eastern and northern edge of the Kaapvaal craton: Insights into the enigmatic geodynamic processes that formed and shaped the Archean Earth.	Prof. Gary Stevens	
09:00	09:15	4228	Remarkable preservation: metamorphic processes in the 3.5 Ga North Pole Dome, Pilbara Craton, Australia	Prof. Martin Van Kranendonk	
09:15	09:30	3662	The Dwalile Supracrustal Suite of the Ancient Gneiss Complex, Swaziland: evidence for discontinuous deposition and polymetamorphism	Dr. Valby Van Schijndel	

Times		Paper #	Title	Speaker
10:30	10:45	3464	Metamorphic PT path of Shirokaya Salma Archean Eclogite-bearing complex of Belomorian province, Russia	Dr. XIAOLI LI
10:45	11:00	5191	Metamorphic evolution and petrogenesis of ultramafic rocks of komatiitic composition from the Central Zone of the Limpopo Belt, South Africa.	Dr. Tapabrato Sarkar
11:00	11:15	725	Low pressure-high temperature compressional tectonics in Central Indian Tectonic Zone: A study of the metapelites of Mahakoshal Group of rocks in Central India	Dr. Kasturi Chakraborty
11:15	11:30	359	Nature of fluids and timing of metamorphism of the regional high grade granulite terrain of Biligirirangan hill, Dharwar craton, Southern India	Dr. Girish Kumar Mayachar
11:30	11:45	910	The Noearechean Granulite Facies Metamorphism in the East Hebei, North China Craton	Prof. Chunjing Wei

Times		Paper #	Title	Speaker
14:00	14:15	1028	High-pressure mafic granulite at the Archean/Proterozoic boundary from the Jiaodong Terrain, North China Craton: Petrography, geochronology, geochemistry and geological implications	Dr. Shoujie Liu
14:15	14:30	3859	Reworking of Neoproterozoic TTGs and amphibolites through fluid-fluxed partial melting, Western Shandong Province, North China Craton	Dr. Chris Yakymchuk
14:30	14:45	449	Phase Equilibria Modelling and Zircon Age Dating of pelitic granulites in Zhaojiayao, from the Jining Group of the Khondalite Belt, North China Craton	Mr. Xianwei Li
14:45	15:00	667	Metamorphic P-T paths and Zircon U-Pb age data for the Paleoproterozoic metabasic dykes of high-pressure granulite facies from Eastern Hebei, North China Craton	Dr. Zhanzhan Duan Prof. Chunjing Wei Dr. Jiahui Qian
15:00	15:15	2166	Pelitic high-P granulites from the Huai'an Complex, North China Craton: Metamorphic evolution and geological significance	Dr. Jialin Wu
15:15	15:30	1239	P–T–t evolution of the Wutai–Hengshan area, North China Craton: insights from phase equilibria and geochronology of garnet amphibolites	Dr. Jiahui Qian

Times		Paper #	Title	Speaker	
16:00	16:30	3451	Granulite facies metamorphism and melting: the message from metabasalts	Prof. Richard White	Keynote
16:30	16:45	1589	Carbonatitic melt and silicate melt produced during partial melting of metasediments at lower crustal depth	Dr. Silvio Ferrero	
16:45	17:00	1026	Rcrust: a new P-T-X modelling tool and application to melt loss	Mr. Matthew Mayne	
17:00	17:15	2153	Stepwise metamorphic and anatectic reactions in high-grade metamorphic terrains	Prof. Lingsen Zeng	
17:15	17:30	2278	New insights into the Palaeoproterozoic tectonothermal evolution of the northeastern sector of the Aileron Province, central Australia	Dr. Barry Reno	
17:30	17:45	3355	Petrography and P-T conditions of garnet-staurolite mica schists from the Tugela terrane, Natal Metamorphic Complex, South Africa	Dr. Peter Horvath	

Times	Paper #	Title	Speaker
	4470	Metamorphic Modelling of High Aluminium Metapelite with Pseudosection and Zr in Rutile thermometer: Example of Luminárias Nappe, SE, Brazil	Ms. Regiane Andrade Fumes
	2194	Rising buoyancy of viscous fluids and exhumation of high-temperature metamorphic belt	Dr. Kazuhiro Miyazaki
	3284	Metasomatic effects in Critical Zone norite adjacent to a calc-silicate xenolith in the western Bushveld Complex, South Africa: implications for chromite-spinel chemistry	Ms. Bavisha Koovarjee
	726	Channelized Fluid controlled metamorphism-metasomatism: A study from calc silicates of Mahakoshal Group of rocks in Central India	Dr. Kasturi Chakraborty
	1405	Neoproterozoic to Paleoproterozoic high-pressure metapelitic granulites from the Jidong terrane, Hebei Province, North China Craton	Mr. Jun Sheng Lu
	3425	The Continental Collision Process Deduced from the Metamorphic Pattern in the Dabie-Hongseong and Himalayan Collision Belt	Professor Chang Whan Oh
	2972	Petrology and geochemical characteristics of Precambrian basement complex rocks in the southeasternmost part of Wonaka Schist belt, North-Western Nigeria.	Mr. Abdulgafar Amuda
	724	Superimposed Tectonothermal Events from Bhavani Layered Complex : A Northern Extension to the Pan African Event from SGT	Dr. Kasturi Chakraborty
	547	Meso-Proterozoic metamorphic evolution of Indian Craton – Studies from Gneissic Complex of West Khasi Hills, Meghalaya, North East India.	Mr. Susobhan Neogi
	2944	Pressure-Temperature Conditions and Inherent Metamorphic Signatures in the Nigerian Basement Complex: A Review.	Mr. Abdulgafar Amuda

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08:00	08:15	1588 UHT metamorphism from In Ouzzal terrane (Hoggar, southern Algeria)	Prof. khadija Ouzegane
08:15	08:30	1843 Widespread CO2-rich cordierite in the UHT Bakhuys Granulite Belt, Suriname	Dr. Emond de Roever
08:30	08:45	2576 Paleoproterozoic ultrahigh-temperature pelitic granulites in the northern Sulu orogen, China	Dr. Xiang Hua
08:45	09:00	1524 Granitic intrusions and UHT metamorphism in the Southern Marginal Zone of the Limpopo Complex, South Africa	Prof. Oleg Safonov
09:00	09:15	4774 A brief pulse of Archean granulite-facies metamorphism: the Beartooth Mountains of Montana, US	Dr. Mark Caddick
09:15	09:30	4854 HT/UHT garnet geo-thermochronology: Limitations and applications from two Neoarchean terranes	Dr. Besim Dragovic
09:30	09:45	1464 Tectonic drivers of UHT metamorphism in Eastern Indonesia	Dr Jonathan Pownall
09:45	10:00	2962 ET at high-T: metamorphism of ordinary chondrites	Dr. Tim Johnson

Times		Paper # Title	Speaker	
10:30	11:00	4048 Fluid-rock interaction : Hydration, stress generation and mass transfer	Prof. Andrew Putnis	Keynote
11:00	11:15	4279 The rapid kinetics of fluid-catalyzed exsolution processes in hydrothermal systems	Prof. Joel Brugger	
11:15	11:30	3621 Details of the gabbro-to-eclogite transition determined from microtextures and calculated chemical potential relationships	Mr. Simon Schorn	
11:30	11:45	1299 The timing of mantle metasomatism revealed by diffusion profiles in zoned garnet crystals – a nanoSIMS study	Dr. Brendan Hanger	

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14:00	14:15	2018 From shale to slate: using High Resolution X-Ray Tomography to determine the lower boundary of metamorphism in pelitic rocks	Dr. Victor Cardenes
14:15	14:30	3411 Extreme nanogranites: unadulterated mantle-depth, granitic melt inclusions crystallised to kumdykolite+kokchetavite+cristobalite	Prof. Patrick O'Brien
14:30	14:45	4722 Carbonatitic melt inclusions in peritectic garnet from Carlos Chagas batholith: Implications for crustal melting in the Araçuaí orogen, Brazil	Prof Gary Stevens
14:45	15:00	4486 Disequilibrium melting of plagioclase during the generation of s-type granite magma	Ms. Nonkuselo Madlakana
15:00	15:15	3506 Fluid-melt evolution during prograde melting as recorded in the garnets of the Oberpfalz migmatites, Western Moldanubian Zone (Central Europe)	Dr. Silvio Ferrero

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16:00	16:15	4157 Oriented inclusions and nanoparticles in apatite in the Sulu UHP terrane, eastern China	Mr. Yu Hong
16:15	16:30	2110 Boosting the petrochronology arsenal: REE partitioning between garnet and monazite in Bhutanese pelitic metasediments	Dr. Tom Argles
16:30	16:45	4927 U-Th-Pb isotope behaviour in zircon, monazite, apatite, allanite, xenotime, titanite and rutile: deciphering high-temperature poly-metamorphism by in situ LA-SF-ICP-MS dating of accessory minerals	Dr. Jeanne Taylor
16:45	17:00	3860 Assessment of the Ti-in zircon thermometer by documenting prograde and retrograde zircon growth in a high-pressure migmatitic pelitic schist of the Canadian Cordillera	Professor Felix Gervais
17:00	17:15	3273 Spectroscopic approaches to probing metamorphic episodicity and its drivers	Dr. Daniel Viète
17:15	17:30	4746 Trace-element variation in metamorphic apatite	Ms. Isadora Henrichs

Times	Paper # Title	Speaker
	4918 Distribution of trace elements in garnet from cold subduction setting – tracing reaction history	Ms. Hana Ditterova
	2205 SIMS S isotope pyrite of Tianshan HPM rocks and their vein in China: implication for sulfur evolution	Prof. Wen Su
	668 From micro to macro: Microsampling Lu–Hf garnet geochronology	Dr. Hao Cheng
	5465 Petrology and petrofabric of the metasediments of the West Daran metamorphic complex	Ms. Saeideh Sanieinezhad
	3592 Geochemical behaviour of Zr around a metasomatic vein and possible brine infiltration under upper amphibolite facies conditions	Ms. Fumiko Higashino

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08:00	08:15	3409 Variscan-style UHPM belts: high pressures at different temperatures, high temperatures at different pressures, and crustal relamination	Prof. Patrick O'Brien
08:15	08:30	2528 The tectonic evolution of UHP metamorphic belt of SW Tianshan, China	Prof. Lifei Zhang
08:30	08:45	326 Partial melting of HP mafic granulites and tectonic evolutions of the Himalayan orogen	Dr. Zeming Zhang
08:45	09:00	970 Early Paleozoic polyphase metamorphism and orogenesis in northern Tibet, China	Prof. Jianxin Zhang
09:00	09:15	903 Phase Equilibria in High- and Ultrahigh-pressure Eclogites	Prof. Chunjing Wei
09:15	09:30	1481 Geochemical evidence for the metasomatic origin of pyrope quartzite in Western Alps	Dr. Yi-Xiang Chen
09:30	09:45	2167 Nb-Ta mobility and fractionation during exhumation of UHP eclogite from southwestern Tianshan, China	Dr. Zhang Lijuan
09:45	10:00	4326 Archean Hot Subduction: Evidences from the Complexes in the Area of Northwest Hebei, China	Dr. Yongshun Liu

Times		Paper #	Title	Speaker
10:30	10:45	2260	High-pressure metamorphism of subducted passive continental margins: Tavsanli Zone in Turkey and Oman	Prof. Aral Okay
10:45	11:00	3154	Jadeitites and related HP-rocks from the Rio San Juan Complex, Dominican Republic: Petrological characterization and archaeological implications	Dr. H.-P. Schertl
11:00	11:15	2898	High-pressure metasomatism in the mantle wedge: insight from the Ti-clinohumite-bearing ultramafic rocks of the Maksyutov Complex, south Ural Mountains, Russia	Prof. Alexey Perchuk
11:15	11:30	666	The Russian Belomorian eclogite, not the Archean eclogite, but the oldest Paleoproterozoic eclogite related to continental collision	Dr. Huanglu Yu
11:30	11:45	4535	Fluid activities during oceanic subduction recorded by garnet oxygen isotopes	Dr. Guibin Zhang
11:45	12:00	3171	Metamorphic complexes of Zheltavsky Precambrian massif (Southern Kazakhstan)	Mrs. Anfisa Pilitsyna

Times	Paper # Title	Speaker
	2319 The discovery of fluid inclusion in moissanite of serpentinite from southern Dabie Mountain (Anhui area), PR China	Prof. Weiping Wu
	5032 A "brief" history of Aegean subduction: P-T-t evolution of the Cycladic Blueschist Unit, Sifnos, Greece	Dr. Besim Dragovic
	4024 High-pressure petilic granulites from the West Kunlun orogenic belt, China:P-T-t path and geotectonic implications	Dr. Wenqiang Yang
	4610 Chemical and thermal evolution of subduction zones: Insights from trace-element distribution and Lu–Hf geochronology in HP oceanic rocks, Halilbağı Complex (Central Anatolia)	Dr. Amaury Pourteau
	518 Timing of the blueschist-facies metamorphism in the North Qilian orogen	Dr. Hao Cheng
	1833 Anticlockwise PT path and zircon U-Pb dating of HP granulites in Yushugou granulite-peridotite complex, southern Tianshan, China	Ms. Lu Zhang
	2432 Chemical zoning, pseudosections and P-T path of well preserved eclogites from the Adrar Izzilatène area (Egéré-Aleksod terrane, Central Hoggar , South Algeria).	Pr. Khadidja Ouzegane
	1732 The occurrence of excess ^{40}Ar in amphibole: implication of $^{40}\text{Ar}/^{39}\text{Ar}$ dating by laser stepwise heating and in vacuo crushing	Dr. Rong-Guo Hu

Chair

Room

Westin - Díaz & Da Gama

Times		Paper #	Title	Speaker
14:00	14:15	1463	Thermal structure of the Dabie eclogite-bearing terrane revealed from the results of the Ti-in-zircon thermometry	Profesor Jingbo Liu
14:15	14:30	787	The petrological and geochronological studies on the eclogite and its country rock schists in the Sumdo area, Tibet, China	Dr. Cong Zhang
14:30	14:45	1250	Oblique convergence along plate boundaries leaded to formation of the “paired metamorphic belts” in Chinese SW Tianshan	Dr. Bin Xia