



## 35TH INTERNATIONAL GEOLOGICAL CONGRESS

<b>T33.9 - Crustal Evolution in the Indian Peninsula: Special Reference to Central Indian Craton</b>		<i>Date</i> <b>Wednesday, 31 August 2016</b>	<i>Time</i> <b>14:00</b>	<i>to</i> <b>15:30</b>
		<i>Chair</i>	<i>Room</i> <b>MR 1.62</b>	

<b>Times</b>		<b>Paper # Title</b>	<b>Speaker</b>	
14:00	14:30	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	Dr. Meraj Alam	Keynote
14:30	14:45	337 Neo-Proterozoic alkali mafic magmatism in Betul belt, Central Indian Tectonic Zone	Dr. MOHAMED SHAREEF	
14:45	15:00	545 Tectonothermal evolution of Meghalaya Gneissic Complex, NE India: a mimic of Chottanagpur Gneissic Complex during Grenvillian orogeny	Mr. Susobhan Neogi	
15:00	15:15	524 U-Pb zircon ages from the Aravalli Craton and Vindhyan Supergroup sediments, Rajasthan – discussion of tectonic implications	Dr. Sojen Joy	
15:15	15:30	1575 Evidence for mid oceanic ridge basaltic (MORB) setting of mafic rocks in Archaean Amgaon greenstone belt of western Bastar craton, central India	Professor Deepak Malpe	

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

<b>Times</b>		<b>Paper # Title</b>	<b>Speaker</b>	
08:00	08:15	1520 Mesoproterozoic Orogeny along Eastern Boundary of Aravalli Craton, Northwestern India: a Tectonostratigraphic and Geochronological Study	Mr. Siladitya Sengupta	
08:15	08:30	1633 Geochemistry, depositional environment and tectonic setting of Neoarchaean banded iron formations: Evidence from western Bastar craton, central India	Prof. Deepak Malpe	
08:30	08:45	4507 Petrogenetic and geochemical constraints of high-Mg Granitoids from Bundelkhand craton, central India	Mrs. Gargi Rai	
08:45	09:00	3150 New constraints from zircon U-Pb ages and Hf isotopic compositions on the late Palaeoproterozoic continental arc granitoids in the Aravalli orogen, NW India	Prof. Naveen Chaudhri	
09:00	09:15	4395 Geochemical characterization and petrogenesis of the Proterozoic mafic magmatism in Gwalior Basin, Central Indian Shield – constraints on crustal evolution	Dr. Samom Jewellys Devi	
09:15	09:30	4401 Geochemical characterization and petrogenesis of Proterozoic Khairagarh Volcanics and the Sakoli Mobile Belt; Bastar Craton, Central Indian shield: implication for Precambrian crustal evolution	Dr. Longjam Chanu Prof Talat Ahmad Talat Ahmad	
09:30	10:00	3367 Metamorphic evolution of the West African Craton	Dr. Lenka Baratoux	Keynote

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10:30	10:45	192 Paleoproterozoic evolution of the Guiana Shield in Suriname: A revised model	Prof. Dr. Salomon B. Kroonenberg
10:45	11:00	658 Tectonics-mineralisation relationships in ancient cratons, a new structural frame	Dr. Denis Gapais
11:00	11:15	3235 Preliminary Report of the Ghana Birimian Greenstone Belt Drilling Project (GHB): Reconstruction of the Paleoproterozoic ocean environment	Dr. Shoichi Kiyokawa
11:15	11:30	4773 Self-consistent thermo-chemical modelling of the lithosphere beneath the West African Craton	Prof. Alan Jones
11:30	11:45	4526 Precise zircon dating reveals the threefold evolution of the Sinclair Supergroup of Namibia.	Prof. David Cornell
11:45	12:00	4504 Lower and middle crust exhumation during Palaeoproterozoic accretionary tectonics: Key new evidence from the Sefwi Greenstone Belt, SW Ghana	Ms. Helen McFarlane

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14:00	14:15	5217	Progressive structural overprinting during convergence of arcs and accretion to the Kaapvaal Craton: Evidence from the northern Natal belt, South Africa	Dr. Juergen Reinhardt
14:15	14:30	2851	Proterozoic tectono-magmatic processes in Aravalli- Delhi Mobile belt, NW India and its implication to Columbia and Rodinia Supercontinents	Mr. Sudheer Kumar Tiwari
14:30	14:45	1607	Mesoproterozoic geochronology in the North China Craton	Dr. Huaikun Li
14:45	15:00	4097	Tectonic Tribulations of Rodinian-Columbian vintage along the western margin of the Kaapvaal Craton	Mr. Marthinus Mathee
15:00	15:15	3778	The geochronology and geochemistry of the ferroan, A-type granites on the eastern margin of the Namaqua Sector, Namaqua-Natal Metamorphic Province, southern Africa	Dr. Russell Bailie
15:15	15:30	4841	The Discovery of the Neoproterozoic rift-related felsic volcanic rocks in the northern margin of North China Craton: Implications for Rodinia reconstruction and mineral exploration	Prof. Runmin Peng

<b>Times</b>		<b>Paper # Title</b>	<b>Speaker</b>	
16:00	16:30	3532 Proterozoic magmatic processes; insights into the crustal growth and accretionary events in diverse tectonic settings	Dr. Valiveti Venkata Sesha Sai	Keynote
16:30	16:45	224 Gravity magnetic survey across Moyar Bhavani Shear Zone, Southern Granulite Terrain, India and its implications for Neoproterozoic-Paleoproterozoic subduction-accretion tectonics:	Mr. S Ganguli S	
16:45	17:00	1097 The four archaean crustal segments of São Francisco Craton, Bahia, Brazil, and their paleoproterozoic collision.	Mr Rafael Barbosa	
17:00	17:15	321 Magmatic and metamorphic P-T evolution of Udayagiri anorthosite complex, Eastern Ghats Belt, Eastern India	Mr. SATYA NARAYANA MAHAPATRO	
17:15	17:30	408 Plagioclase Megacrysts in Proterozoic Leucogabbro Dyke from Bastar Craton, Central India: Melt-crystal interaction at crustal level.	Dr. Muduru Iachhana Dora	
17:30	17:45	350 Geochemistry of mafic sanukitoids and Closepet type rocks from Palghat-Cauvery Shear zone: implications on Archaean-Proterozoic crustal evolution in the Southern Granulite Terrain, India.	Dr. Soney Kurien	

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	4104	Structural analysis of the Riemvasmaak Mega Sheath Fold (RKMS) situated in the Gröna Terrane of the Namaqua-Mobile Belt	Mr. Marthinus Mathee
	3884	Multi-dimensional resistivity modelling of the lithospheric structure of the Baoulé-Mossi domain in West Africa	Prof. Alan Jones
	4642	Structural and tectonic evolution of the Buffels River Shear Zone, western Namaqua Sector, Namaqua-Natal Metamorphic Province, South Africa: preliminary studies.	Ms. Yasmeen Abrahams
	3365	New U-Pb ages and geochemical characteristics of the Proterozoic doleritic dyke swarms from the Leo-Man craton	Dr. Lenka Baratoux
	3371	Tectonic evolution of the Gaoua region, Burkina Faso: Implications for Mineralization	Dr. Lenka Baratoux
	2380	Meso- and Neoproterozoic thermotectonic evolution of south-western Baltica: Insights from P/T studies, U-Pb zircon geochronology and $^{40}\text{Ar}/^{39}\text{Ar}$ thermochronology	Dr. Jan Ulmius
	1396	Magnetotelluric study of the Neoproterozoic shear zone of 4°50'	Mr. Aboubakr Deramchi
	2442	Radiometric signatures of Impact structures: application to impact crater studies in West Africa	Dr. David Baratoux

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08:00	08:15	640 Genesis and petrology of Late Neoproterozoic pegmatites and aplites associated with the Taba metamorphic complex in southern Sinai, Egypt	Prof. Mokhles Azer
08:15	08:30	1495 New SHRIMP age and microstructures from a deformed A-type granite, Kanigiri, southern India: constraining hiatus between orogenic closure and post-orogenic rifting	Mr. Arnab Sain
08:30	08:45	2616 Sr, Nd isotopes and geochemistry of the western Nuba Mountains low-grade metavolcanics (Sudan): New evidence for Neoproterozoic arc magmatism on the eastern Saharan Metacraton	Mr. Montasir Ibinoof
08:45	09:00	1822 Geology and geochemistry of the Kanda Kanda tonalite – trondjemite – granite grey gneisses in the Kasai Archaean craton (D. R. Congo)	Dr. Francois Toto Lubala
09:00	09:15	4737 Lithofacies analysis of a Palaeoproterozoic (2.06 Ga) silicic large igneous province dominated by lava-like, rheomorphic ignimbrites – the Rooiberg Group, Kaapvaal Craton, South Africa.	Mr. Samson Masango
09:15	09:30	3482 Typomorphic mineralogy of the Vattikod lamproites from Mesoproterozoic Ramadugu Lamproite Field, Nalgonda District, Telangana, India: A plausible manifestation of subduction-related alkaline magmatism in the Eastern Ghats Mobile Belt?	Dr. Gurmeet Kaur
09:30	09:45	4499 Fennoscandia, Sarmatia and Volgo-Uralia: the building stones of the East European Craton	Prof. Nataliya Lubnina
09:45	10:00	4574 Evolution of the eastern Arabian basement - geochronologic and isotopic constraints from Socotra and basement inliers in Oman.	Prof. Martin Whitehouse



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10:30	10:45	1492 Atmospheric conditions at the Archean-Paleoproterozoic boundary: Geochemical studies from Central India	Dr. Sarada Prasad Mohanty
10:45	11:00	1013 Shallow marine siliciclastics to pelagic chert in a Paleoproterozoic ophiolite complex, southern India.	Prof. Dilip Saha
11:00	11:15	2134 Multiple carbon burial episodes and isotope excursions in the aftermath of the Palaeoproterozoic Great Oxidation Event	Dr. Adam Martin
11:15	11:30	3392 Bitter Spring C-isotope anomaly in the Vindhyan Supergroup, Rajasthan, India	Dr. Jyotirnanjan Ray
11:30	11:45	657 The sedimentology of the Paleoproterozoic Duitschland Formation (Transvaal Supergroup, South Africa): new insights from Langbaken 340KS	Mr. Matthew Warke
11:45	12:00	3533 The Sedimentology of the Rooihooft Formation of the Transvaal Supergroup in the Carletonville area, South Africa.	Ms. Sabiyah Zardad

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	2448 Age constraints on Paleoproterozoic glacials and oxygenation from South Africa	Dr. Stefan Schroeder
	126 Proterozoic ferroan feldspathic magmatism in Eastern Dharwar Craton; Constraints from the petrogenesis of Mesoproterozoic granite magmatism to the East of the Nallamalai Fold Belt, SE India	Dr. Valiveti Venkata Sesha Sai
	3656 The Gamagara Formation revisited: stratigraphy, sedimentology, origin and metallogenic significance	Dr. Harilaos Tsikos
	4851 Soft-sediment deformation structures interpreted as seismites in Ediacaran carbonates (Bambuí Group, Brazil)	MSc. Juliana Okubo
	3985 Felsic magmatic events within 1.36 – 1.00 Ga time interval in the SW Amazonian Craton, Brazil and Bolivia: tectonic implications and magma sources	Dr. Washington Barbosa Leite Júnior
	4940 Reassessing processes of primary deposition and diagenesis of iron and manganese, using cm-scale variations in iron and carbon isotope ratios of the Palaeoproterozoic Hotazel Formation, South Africa.	Mr. Xolane Mhlanga
	1487 Discussions on the Neoproterozoic strata–tectonic–magmatic event sequence of the eastern Jiangnan Orogen, southeast China	Prof. Xinqi Yu
	3728 Geochemistry and SIMS U-Pb zircon geochronology of the Vijayan anatectic melts of eastern Sri Lanka	Dr. Samuel Wai-Pan Ng
	1417 Neoproterozoic tectonic evolution of South Qinling, China: evidence from zircon ages and geochemistry of the Yaolinghe volcanic rocks	Dr. Xi Yan Zhu
	3786 Zircon U-Pb ages, Hf isotopes and geochemistry of the Precambrian gneisses in the Wonju-Jechon area, Southern margin of the Gyeonggi Massif: implications for the Precambrian tectonic evolution of the Gyeonggi Massif and Northeast Asia	Mr. Byungchoon Lee
	4591 Neoproterozoic Basic and Mid-acidic Intrusions in Welega Area (Ethiopia) □Litho-geochemical Evidence for mantle and partly Crust Melting	Prof. Huazhou YAO
	1950 In situ U-Pb zircon dating on sedimentary and granitoid rocks in Imjingang Belt, North Korea	Dr. Yanbin Zhang

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14:00	14:15	3801	Geochemistry of a paleoweathering profile on the "bostonite" mafic intrusives of Avontuur Deposit, Northern Cape	Ms. Batobeleng Monareng
14:15	14:30	2624	The enigma of the missing large regional erosional unconformity at the base of Marinoan Snowball Earth successions (northeastern Namibia)	Dr. Thilo Bechstaedt
14:30	14:45	2084	Origin of Neoproterozoic iron formations in Namibia and Australia	Mr. Maxwell Lechte
14:45	15:00	4207	Mechanism of the late Cryogenian large scale Mn-mineralisation in Nanhua Basin, South Chinaa	Dr. Xiang Kun Zhu