

Ministry of Earth Sciences, Government of India

# PROGRAMME SCHEDULE

CONFERENCE NATIONAL

### Magmatism, Metamorphism Metallogeny

Focus on The Indian Cratons and Mobile Belts

2025 February 16 > 18

**National Centre for Earth Science Studies Thiruvananthapuram** 







SCHEDULE	TITLE	PRESENTING AUTHOR	
SESSION 1: Chair (Prof Talat Ahmad and Prof Hetu Sheth)			
11:00 - 11:20	Analogous mantle plume derived giant circumferential, radiating, and linear dyke swarms on Earth and Venus: examples from the Indian Shield and Central Eistla Region	<b>Prof. Rajesh K Srivastava</b> BHU, Varanasi, U.P.	
11:20 - 11:35	Paleoarchean to Mesoarchean episodic crustal growth and reworking in the western Dharwar Craton: Evidence from sedimentary archive	<b>Prof. Sukanta Dey</b> <i>IISER, Kolkata</i>	
11:35 - 11:50	Petrological evolution of Bhuj and Malwa volcanics from the Northern Deccan Trap Province	<b>Dr. Simontini Sensarma</b> IIT Bhubaneswar	
11:50 - 12:05	Geochemical and Petrogenetic Study of Granitoids from Eastern part of Central India, Central Indian Tectonic Zone (CITZ)	<b>Dr. Indrajeet Saket</b> IGNTU, Amarkantak	
SESSION 2: Ch	air (Prof Rajesh K Srivastava and Dr M.Rammohan)		
12:05 - 12:25	Towards understanding the complexity of the Banded Gneissic Complex, Aravalli Craton, NW India	<b>Prof. M.E.A Mondal</b> AMU	
12:25 - 12:40	The Geochemical Signatures of Indian Cratons in terms of Magmatism, Metamorphism and Metallogeny - A Comprehensive Analysis.	<b>Prof. Debdas Ray</b> Asutosh College, Kolkata	
12:40 - 12:55	Geochemical and Sr-Nd-Hf-Os isotopic evidence for diverse metasomatic processes in the formation of cratonic lamproites: insights from Mesoproterozoic diamondiferous lamproites of the Bastar Craton, India	<b>Dr. Rohit Pandey</b> BHU, Varanasi, U.P.	
12:55 - 1:10	Mantle source of Kutch alkaline suite of Deccan Large Igneous Province: combined oxygen and radiogenic isotope perspective	<b>Dr. Soumi Chattopadhaya</b> BHU, Varanasi, U.P.	
1:10 - 2:30 LUN	1:10 - 2:30 LUNCH		

SESSION 3: Chair (Prof Biswajit Ghosh and Prof. A.P.Pradeepkumar)		
2:30 - 2:50	Viewing tectonic mileu of the Kadavur gabbro-anorthosite complex, southern granulite terrane of the Indian shield using chemistry of minerals	<b>Prof. Jyotisankar Ray</b> Univ. of Calcutta
2:50 - 3:05	Calcio-carbonatite and nepheline-syenite form the Kunavaram alkaline complex, India: Petrogenetic implications on their comagmatic origin	Ms. Munmun Chakraborty GSI, Telangana Unit, Hyderabad
3:05 - 3:20	Magma Mixing and Trans lithospheric magmatic plumbing system processes in the end-Cretaceous (67 My) lamprophyres from the Nirwandh alkaline complex, Kutch, Northwest India	<b>Dr. Abhinay Sharma</b> Ravenshaw University, Odisha
3:20 - 3:35	Petrogenesis of Neoarchaean and Mesoproterozoic Shoshonitic Lamprophyres from the Nuapada Lamproite Field, Eastern Bastar Craton, Central India	<b>Dr. Mahendra Kumar Singh</b> BHU, Varanasi, U.P.

### 3:35 - 4:00 TEA

SESSION 4: Chair (Prof M.E.A Mondal and Dr. Asish Dongre)		
4:00 - 4:20	Petrogenetic evolution of the granitoids from the Chitradurga Greenstone Belt, Western Dharwar Craton: Implications on crustal growth and reworking	<b>Dr. M. Ram Mohan</b> CSIR-NGRI, Hyderabad
4:20 - 4:35	Paleoproterozoic mafic dyke swarms in the Dharwar Craton: a window into subcontinental lithospheric Mantle evolution	<b>Dr. Amiya Kumar</b> BHU, Varanasi, U.P.
4:35 - 4:50	Geochronology and geochemistry of bimodal metavolcanics from the Nandgaon Group, Bastar Craton - Implications for Neoarchean arc magmatism and tectonic evolution	<b>Dr. Sathya Narayan Mahapatro</b> <i>GSI</i>
4:50 - 5:05	The physical volcanology of large-scale effusive and explosive silicic eruptions in southeastern Saurashtra, Deccan Traps	<b>Dr. Anmol Naik</b> Goa University

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Session 5: Chair (Prof. J.S. Ray and Prof. Sukanta Dey)  5:05 -5:20	SCHEDULE	IIILE	PRESENTING AUTHOR
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Granitoid Classification  S type granites: Insight into Archean geodynamics & surface processes  Sayani Chatterjee NISER, Bhubaneswar  Petrogenesis of Lamprophyre dykes from Jonnagiri schist belt; Imprints of heterogeneity in sub-lithospheric mantle beneath green schist belts across western part of the Eastern Dharwar Craton  A new evidence of mid-Cretaceous Pre-Deccan carbonatite magmatism in north-western India: Insights from apatite-calcite U-Pb geochronology, bulk and trace element geochemistry and C-O-Sr-Pb isotope geochemistry from the polychronous Mundwara alkaline complex  Mineralogical characterization of granophyric dykes from the central-western Bastar craton: implications for the role of metasomatism  Geochemistry of mafic alkaline dykes from the Sirohi area, Aravalli craton, North-western India; Geodynamic implication for the evolution of Aravalli Craton.  Inferring the emplacement mechanism of ca. 2.26-2.25 Ga Ippagudda-Dhiburhalli dyke swarm: Implications from Anisotropy of Magnetic Susceptibility and Fracture data analyses.  Petrological and paleomagnetic studies on the granophyres of Barda hill, Saurashtra Gujarat  Biogeochemical transitions across the Permian-Triassic successions of Spiti, NW Himalaya  Origin of Central Kerala Divisor; Implications from LLPB are data.  Haripriya S		Nongchram Fault zone, East garo hills, Shillong Plateau, Northeast India	
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north-western India: Insights from apatite-calcite U-Pb geochronology, bulk and trace element geochemistry and C-O-Sr-Pb isotope geochemistry from the polychronous Mundwara alkaline complex  Mineralogical characterization of granophyric dykes from the central-western Bastar craton: implications for the role of metasomatism  Aditi Tripathi BHU, Varanasi, U.P.  Geochemistry of mafic alkaline dykes from the Sirohi area, Aravalli craton, North-western India; Geodynamic implication for the evolution of Aravalli Craton.  Inferring the emplacement mechanism of ca. 2.26-2.25 Ga Ippagudda-Dhiburhalli dyke swarm: Implications from Anisotropy of Magnetic Susceptibility and Fracture data analyses.  Petrological and paleomagnetic studies on the granophyres of Barda hill, Saurashtra Gujarat  Biogeochemical transitions across the Permian-Triassic successions of Spiti, NW Himalaya  Origin of Central Kerela Dykes: Implications from II-Ph age data.  Haripriya S	0.03 7.00	heterogeneity in sub-lithospheric mantle beneath green schist belts across	
Bastar craton: implications for the role of metasomatism  BHU, Varanasi, U.P.  Geochemistry of mafic alkaline dykes from the Sirohi area, Aravalli craton, North-western India; Geodynamic implication for the evolution of Aravalli Craton.  Inferring the emplacement mechanism of ca. 2.26-2.25 Ga Ippagudda- Dhiburhalli dyke swarm: Implications from Anisotropy of Magnetic Susceptibility and Fracture data analyses.  Petrological and paleomagnetic studies on the granophyres of Barda hill, Saurashtra Gujarat  Biogeochemical transitions across the Permian-Triassic successions of Spiti, NW Himalaya  Origin of Central Kerala Dykes: Implications from LLPb age data  Haripriya S		north-western India: Insights from apatite-calcite U-Pb geochronology, bulk and trace element geochemistry and C-O-Sr-Pb isotope geochemistry from	
North-western India; Geodynamic implication for the evolution of Aravalli Craton.  Inferring the emplacement mechanism of ca. 2.26-2.25 Ga Ippagudda-Dhiburhalli dyke swarm: Implications from Anisotropy of Magnetic Susceptibility and Fracture data analyses.  Petrological and paleomagnetic studies on the granophyres of Barda hill, Saurashtra Gujarat  Biogeochemical transitions across the Permian-Triassic successions of Spiti, NW Himalaya  Origin of Central Kerala Dykes: Implications from LLPB are data  Haripriya S			
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Saurashtra Gujarat  Biogeochemical transitions across the Permian-Triassic successions of Spiti, NW Himalaya  Origin of Central Kerala Dykes: Implications from LL-Ph age data  Haripriya S		Dhiburhalli dyke swarm: Implications from Anisotropy of Magnetic	
NW Himalaya  UoH, Hyderabad  Origin of Central Kerala Dykes: Implications from LL-Ph age data  Haripriya S			
		Origin of Central Kerala Dykes: Implications from U-Pb age data	
		Origin of Central Kerala Dykes: Implications from U-Pb age data	

### Day 2

### Metamorphism

SCHEDULE	TITLE	PRESENTING AUTHOR
9:30 - 9:45	Sustainability of Metamorphic Petrology research in the Indian context	Prof. Somnath Dasgupta ISI, Kolkata
SESSION 7: C	hair (Prof Somnath Dasgupta and Prof. Sankar Bose)	
9:45 - 10:05	Pulsed Tectonism and its Timescales: New Insights from Metamorphic P-T Paths and Diffusion Chronometry	Prof. Santanu Kumar Bhowmik IIT Kharagpur
10:05 - 10:20	Petrogenesis of mid-Neoproterozoic charnockites from the Madurai block, India: Constraints from U-Pb geochronology, geochemistry, and geochemical modelling	<b>Dr. Tapobrato Sarkar</b> IISER Kolkata
10:20 - 10:35	Metamorphic history of Neoarchean Gadwal Greenstone Belt, Eastern Dharwar Craton: Implications for hot accretionary to collisional orogen	<b>Dr. Aliba Ao</b> CEOA, UoH, Hyderabad

10:35 - 11:00 TEA

SESSION 8: Chair (Prof Pulak Sengupta and Prof Saibal Gupta)		
11:00 - 11:20	Lasting impression of late stage fluids on lower crustal rocks: the curious case of the Eastern Ghats Province, India	<b>Prof. Sankar Bose</b> Presidency University, Kolkata
11:20 - 11:35	Exhumation and cooling Gondwanan Terranes: Resolving the metamorphic dissension through accessory mineral geochronology	<b>Dr. J Amal Dev</b> NCESS, Thiruvananthapuram
11:35 - 11:50	Formation of aluminous clinopyroxene-ilmenite-spinel symplectic assemblage in a regionally metamorphosed calc-silicate granulite from the Chotanagpur Granite Gneiss Complex, East Indian shield	<b>Dr. Sirina Roy Choudharya</b> Jadavpur University, Kolkata
11:50 - 12:05	Tectonic setting and depositional age of metasedimentary rocks of the Simlipal Complex, Singhbhum Craton, eastern India: constraints from U-Pb zircon geochronology	<b>Dr. Ajay Kumar Singh</b> CSIR-NGRI, Hyderabad
12:05 - 12:20	Tectono-thermal Evolution of the Proterozoic Mahakoshal Belt around Jabalpur Along the Northern Margin of Central Indian Tectonic Zone	<b>Dr. Lopamudra Saha</b> IIT Roorkee
12:20 - 12:35	Geochemistry and Geochronology of Monazites from Coastal Sands of Southern India: Implications for the Evolution of Mobile Belts	<b>Dr. K Bangaku Naidu</b> IIPE, Visakhapatnam

12:35 - 2:00 LUNCH

SESSION 9: Chair (Prof S. K Bhowmik and Dr. Tomson J.K.)		
2:00 - 2:20	Fluids during metamorphism of the lower crust – the interplay with deformation	Prof. Saibal Gupta IIT Kharagpur
2:20 - 2:35	Emergence of continental crust on early Earth	<b>Dr. Priyadarshi Chowdhury</b> NISER, Bhubaneswar
2:35 - 2:50	Giant epidote formation in parts of anorthosite layers of Sittampundi Layered Complex, Tamil Nadu.	<b>Dr. Moumita Talukdar</b> <i>IIEST</i> , <i>Shibpur</i>
2:50 - 3:05	Configuration of the Intra-Terrane Shear Zones in the Bundelkhand Craton: An odyssey of Progressive Riedel Shear Dynamics	<b>Dr. Sayandeep Banerjee</b> BHU, <i>Varanasi</i>
3:05 - 3:20	Assessing the linkage between garnet zoning and metapelite anatexis: insights from Sandmata Complex, Northwestern India	<b>Dr. Aditya Naik</b> IISER Mohali
3:20 - 3:35	Cryogenian metamorphism from Madurai Block of the Southern Granulite Terrane, India: A petrochronological appraisal	<b>Dr. Mohd Baqar Raza</b> IISER Kolkata

SCHEDULE TITLE PRESENTING AUTHOR

SESSION 10: Chair (Dr. Lopamudra Saha and Prof. Rajib Kar)		
4:00 - 4:20	Magmatism and post magmatic alteration of ultramafics in Salem, southern India	<b>Prof. V.J Rajesh</b> IIST, Thiruvananthapuram
4:20 - 4:35	Geochemistry, P-T pseudosection and monazite geochronology of metasedimentary rocks, Pranhita Godavari Basin, South India	<b>Dr. Pritam Nasipuri</b> IISER Bhopal
4:35 - 4:50	Evidence for Ti mobility during regional metamorphism from the Makrohar Granulite Belt, Central India	<b>Dr. Shreya Karmakar</b> GSU, ISI Kolkata
4:50 - 5:05	Neoarchean transient tectonics from Western Dharwar Craton: Insights from Shimoga greenstone belt	<b>Dr. K R Aadisheshan</b> NIAS, IISc Bengaluru
5.05 - 5:20	Metamorphic Characterization of Metabsites from Proterozoic Chandil Formation and their Implication in the Tectono-Thermal Evolutionary History of Northern Margin of North Singhbhum Mobile Belt (N-NSMB)	<b>Dr. Arnab Dasgupta</b> Hooghly Mohsin College, West Bengal
Session 11: Po	oster Session (Prof VJ Rajesh, Dr Tapabrato Sarkar, Dr Shreya Karmakar and	d Dr Moumita Talukdar)
	Petrogenesis and U-Pb zircon/apatite geochronology of mafic granulites from Coorg Massif, Western Dharwar Craton; Tracing signatures of progressive metamorphism and Neoarchean oblique convergence	V. Deepchand Univ. of Kerala, Thiruvananthapuram
	Assessing the surface and sub-surface characteristics of the ~E-W crustal scale Raksha Shear Zone, Bundelkhand Craton, India	<b>Aishwarya Mohan</b> Dept. of Geology, BHU, Varanasi
	Provenance, tectonic setting and paleoweathering history of Meso-Neo proterozoic metasediments of Shillong Basin, Shillong Plateau	Amresh Bharati CSIR-NGRI, Hyderabad
	Pushing the Boundaries: The Extremes of Metamorphic Conditions	Anuj Ghosh IIT Kharagpur
	Metamorphic evolution of textural microdomains in high Mg-Al granulites from Eastern Ghats Province, India: implication to distinct mineral paragenesis	Anwesha Ghosh Univ. of Calcutta
	Petrogenesis of high-grade metamorphic rocks across the KKPT Shear Zone in Madurai Granulite Block, Southern India: Implications on Crustal Evolution	M S Parvathy MES Ponnani College, Univ. of Calicut
	Do Matrix Minerals Control Garnet Growth During Metamorphism? Insights From A Multilayered Garnet Biotite Schist From Ibrampur, Goa.	Siddhi Shirodkar Goa University, Taleigao
5:20 - 6:30	Metamafic Dykes as an Indicator of a Continental Collision between Coorg Block and Western Dharwar Craton	<b>Rituparna Nayak</b> IIT Kharagpur
	Magmatic charnockites (sensu lato) as products of crustal melting: implications to source rock heterogeneity	Sanchari Chatterjee Univ. of Calcutta
	P-T-t constraints from the khondalites of the northernmost crustal segment of the Eastern Ghats Mobile Belt, India: implications for Proterozoic tectonics.	Soumyaranjan Behera IIT Roorkee
	Evidence of delamination-driven orogenesis during Neoarchean	<b>Tiyasha Basu</b> NISER, Bhubaneswar
	Coupling-Decoupling Mechanism across the Plate Interface during Ultra-hot Subduction Infancy: Insights from Metamorphic Sole Rocks and Wedge Mantle Peridotites of the Manipur Ophiolite Belt, NE India.	Bisworanjan Pradhan IIT Kharagpur
	Geochemical and Isotopic Insights into the Proterozoic Stromatolites: Implications for Early Earth Environments and Astrobiology	Preeti K IIST, Thiruvananthapuram
	High to Ultra-High Temperature Metamorphism in the Madurai Block, Southern Granulite Terrane: Petrochronological Insights from Metapelitic Granulites in Andipatti	<b>Debasish Borah</b> IISER Kolkata
	The 'Marginal Contact Zone '(MCZ): it's origin and importance in unravelling the timing of dyke intrusion within polydeformed Chaibasa metasedimentary rocks near Ghatsila Ferrey ghat, Jharkhand, India.	Sourav Mitra Jadavpur University
6:30 - 7:30 Cultural Programme		



## Metallogeny

SCHEDULE	TITLE	PRESENTING AUTHOR
SESSION 12: C	hair (Prof Mihir Deb and Prof R.Krishnamurthi)	
9:30 - 9:50	Lithium Occurrence, Mineralogy, Different Types of Deposits, and Exploration Strategies with Special Reference to India	<b>Dr. V. Balaram</b> CSIR-NGRI, Hyderabad
9:50 - 10:05	An atmospheric source of sulfur recorded in the Mesoarchean Kundarkocha gold deposit, Singhbhum Craton	<b>Dr. Rajarshi Chakravarti</b> IIT Roorkee
10:05 - 10:20	How F and B control wolframite mineralization in granitic systems: insights from ore camps in NW India	<b>Dr. S. Bhattacharya</b> IISER Mohali
10:20 - 10:35	Fracture controlled vein type multi-phase mineralization from Chitrial outlier, Eastern Dharwar Craton, India: Inferences from Mineralogical and textural evolution	<b>Dr. Sneha Mukherjee</b> NCESS, Thiruvananthapuram
10:35 - 11:00 TEA		
SESSION 13: Chair: (Dr. V.Balaram and Prof. A.S Venkatesh)		
11:00 - 11:20	Hydrothermal Alteration and Fluid Inclusion studies of the Paramanahalli Gold Deposit, Chitradurga greenstone belt, Karnataka, India	Prof. Rajagopal Krishnamurthi IIT Roorkee
	Carbonate REE composition, positive Eu/Eu* anomaly and Sr isotope systematics, auriferous quartz carbonate veins. Chigargunta Gold Deposit.	Prof S Sarangi

SESSION 13: Chair: (Dr. V.Balaram and Prof. A.S Venkatesh)		
11:00 - 11:20	Hydrothermal Alteration and Fluid Inclusion studies of the Paramanahalli Gold Deposit, Chitradurga greenstone belt, Karnataka, India	Prof. Rajagopal Krishnamurthi IIT Roorkee
11:20 - 11:35	Carbonate REE composition, positive Eu/Eu* anomaly and Sr isotope systematics, auriferous quartz carbonate veins, Chigargunta Gold Deposit, Kolar Greenstone Belt, Dharwar craton, India: Implication to the source of gold bearing ore fluids	Prof. S. Sarangi IIT-ISM, Dhanbad
11:35 - 11:50	Geochemically distinct basalts of Panjal Traps record transition from sub- continental lithospheric mantle to sub-lithospheric mantle melting regime	<b>Dr. Ashutosh Pandey</b> <i>IISER Thiruvananthapuram</i>
11:50 - 12:05	Vanadium Mineralization in the Carbonaceous Phyllites of Khetabari Formation of Arunachal Pradesh Himalayas: Insights for Graphite controlled Adsorption	<b>Dr. Samerendra Sahoo</b> <i>GSI</i>
12:05 - 12:20	Sequence of formation of Fe-Mn deposits from a hydrothermally altered carbonatite and apatite rich rocks from parts of SPSZ, West Bengal	<b>Dr. Nandini Dasgupta</b> Jadavpur University
Session 14: PC	OSTER (Chair: Prof S.Sarangi, Dr S.Bhattacharya and Dr. R.Chakravarthi)	
	Constraining the redox conditions of Archean Ocean from X-Ray diffraction analyses of Banded Iron Formation, Bundelkhand Craton, India.	Akhil K K IISER Bhopal
	Influence of source rock and anatectic processes on metal fertility of tungsteniferous Balda granite in Sirohi region, northwest India	<b>Jithendra Kumar Roy</b> IISER Mohali
12:20 - 1:00	Multistage gold mineralization at the Lawa gold deposit, North Singhbhum Mobile Belt, eastern India: Insights from alteration mineralogy and pyrite geochemistry	Paromita Banerjee IIT Roorkee
	Preliminary study of Nb-Ta pegmatites in Ajmer region, NW India	Prakash Kumar Sahoo IISER Mohali
	Stages of deformation and mineralization associated with veins of Jahaz uranium deposit, North Delhi Fold Belt, Rajasthan, India	Priyanka Mishra IIT Roorkee
	The Lost Lithospheric Roots of the Indian Subcontinent	Amarjith Bhagat SPPU, Pune, India

SCHEDULE	TITLE	PRESENTING AUTHOR
	The nature of the lower oceanic crust at ultraslow spreading ridges: constraints from gabbroic samples recovered from Southwest Indian Ridge	<b>Archisman Dhar</b> University of Calcutta
	The 62.5 Ma Dongri-Uttan rhyolite sequence, Mumbai area, Panvel flexure zone: late-Deccan effusive-explosive silicic eruptions during India-Seychelles continental breakup	<b>Arunodaya Shekhar</b> IIT Mumabi
	Geochemical and Geochronological Insights into 2.36 Ga and 1.88 Ga Paleoproterozoic Mafic Magmatism in the Bastar Craton, India	Aurovinda Panda CSIR-NGRI, Hyderabad
12:20 - 1:00	Widespread and abundant interstitial silicic glasses in tholeiitic dykes of the Konkan Plain, western Deccan Traps: implications for silicic magma genesis in continental flood basalt provinces	B. Asta IIT Mumabi
	Emplacement and Deformation of Kalpetta Granite: A Magnetic and Petrographic Perspective	C.P Favas Univ. of Kerala, Thiruvananthapuram
	Tracking Subduction Initiation to Intraplate magmatism within the Neo- Tethys: Insights from the Manipur Ophiolite Belt	Deep Das IIT Kharagpur
	Petrography and Mineral Chemistry of Phoscorite and Syenite from Koppal Alkaline Complex, Eastern Dharwar Craton, Southern India	Husna H IISER Tirupati
	Geochemical characteristics of volcano-sedimentary rocks of the Mahakoshal Group, central India	Kamaal Parvez AMU
	Evidence of calc-alkaline magmatism in the Salem Mafic-Ultramafic Complex, southern granulite terrane, India	M.R. Nandu Univ. of Kerala

1:00 - 2:00 LUNCH

### 2:00 - 3:30 PANEL DISCUSSION AND VALEDICTORY SESSION

3:30 - 4:00 HIGH TEA











