



Frontiers in Geosciences Research Conference

Physical Research Laboratory
27- 28 September 2021 (online)



Flash talk presentations will consist of a two minute talk, with two summary slides (Two slides, two minutes presentations)

Flash Talk 1 (27 September 2021; 17:05 – 18:30 hrs.)

S. No.	Poster No.	Title of the poster	Presenter
1	S1	Physical volcanology of the Pavagadh rhyolites, northern Deccan Traps: Stratigraphic, structural, and textural record of explosive and effusive eruptions	Janisar M. Sheikh (BHU, Varanasi)
2	S2	An appraisal of ground failure and hydrogeological changes associated with the 28 April 2021, M _w = 6 Sonitpur earthquake, Assam, India using field evidences and InSAR measurements	Drishya Girishbai (Geological Survey of India, Shillong)
3	S3	Chemical weathering rate of a small western ghat river, Southwestern India	V. N. Amrish (Manipal Inst Tech, Manipal)
2	S4	Drastic change in sediment provenance during the Permian-Triassic transition: An insight from Sr-Nd isotopic study of Guryul Ravine section, India	Anirban Mandal (IISER Pune)
3	S5	Extremely high-grade, lava-like rhyolitic ignimbrites at Osham Hill, Saurashtra, northwestern Deccan Traps: stratigraphy,	Anmol Naik (IIT Bombay)

		structures, textures, and physical volcanology	
4	S6	Morphometric analysis and weathering intensity in the Punnapuzha River Basin, central Kerala, India	Arunkumar K.S. (MES Ponnani College, Ponnani)
5	S7	Significance and role of controlling factors in the chemical weathering of Amphibolite: an overview	Khalid Mohammed Ghasera (AMU, Aligarh)
7	S8	Evolution of Kamthai carbonatites, Rajasthan: Evidence from geochemistry	Milan Kumar Mahala (PRL, Ahmedabad)
8	S9	Lithospheric Velocity Structure beneath The Chhotanagpur Plateau, India Using Waveform Modeling Of Shear-Coupled PL Wave	Mukesh Kumar Das (IIT(ISM), Dhanbad)
10	S10	Impact of extreme rainfall events on chemical weathering in a tropical river basin (Mahanadi river, India)	Rakesh Kumar Rout (IISER Pune)
11	S11	Analysis of Seismic Attenuation Characteristics for Eastern Chotanagpur Plateau, India	Rashid Shams (IIT(ISM), Dhanbad)
12	S12	Silicate versus carbonate rock weathering in Peninsular India: a study from the Kali watershed	Kumar Arun (Manipal Inst Tech, Manipal)
17	S13	Comparison of Seismic Declustering Methods for Kishanganj (India)	Yehya Rasool (IIT(ISM), Dhanbad)
18	S14	Comparison of the LST, NDVI, and NDBI between the old Ahmedabad city and the new Ahmedabad city using the LANDSAT-8 satellite	Divyakumar A. Kotia (St. Xavier's College, Ahmedabad)
19	A1	Aerosol physical-chemical properties and its association with cloud condensation nuclei activation over a tropical coastal location	T. C. Ajith (VSSC, Thiruvananthapuram)
20	A2	Understanding the variation of particulate matter over Ahmedabad city	Bhargav Prajapati (St. Xavier's College, Ahmedabad)
21	A3	Impact of PM ₁₀ and PM _{2.5} on air quality during Diwali festival at Agra	Gunjan Goswami (DEI, Agra)

22	A4	Comparative study of PM _{2.5} diminution and haze events over Delhi and Agra during the COVID 19 lockdown period	Isha Goyal (DEI, Agra)
23	A5	Finding and analyzing the source for the production of carbon monoxide over India using Satellite data	Khushali Tank (St. Xavier's College, Ahmedabad)
24	A6	Impact of Covid-19 pandemic on the variation of Black carbon over an urban city Delhi	Kush Ghetia (St. Xavier's College, Ahmedabad)
25	A7	A three-year record of chemical composition and ⁸⁷ Sr/ ⁸⁶ Sr in rainwater over Bhopal, the second cleanest city of India	Nafees Ahmad (IISER Bhopal)
26	A8	The impact of lockdown on air pollution levels and change in air quality at sub-urban site Dayalbagh, Agra	Neelam Baghel (DEI, Agra)
27	A9	Variation of Nitrogen Dioxide (NO ₂) over metropolitan areas of India	Vaibhav Trivedi (St. Xavier's College, Ahmedabad)
28	A10	Mixing ratios and stable isotopes in CO ₂ and N ₂ O in a coastal station of a western pacific island: quantification of influences from regional and long range transported sources	Uddalak Chakraborty (BHU, Varanasi)
29	A11	Impact of the COVID-19 Lockdown on Air Pollution Levels in Jalandhar, Punjab	Manik Bhandari (B.R. Ambedkar Nat Inst Tech, Jalandhar)

Flash Talk 2 (28 September 2021; 16:15 – 17:30)

S. No.	Poster No.	Title of the poster	Presenter
1	B1	Concentration and average chain lengths of leaf wax n-alkanes in tropical deciduous and evergreen species	A Saishree (IISER Pune)
2	B2	Seasonality of particulate REEs in the estuarine water column of the Gulf of Cambay	Abul Qasim (IISER Bhopal)

3	B3	Assessment of spatial distribution of metal contamination in shallow groundwater of Udyavara river basin, Southwest India	Vignesh Akshitha (Manipal Inst Tech, Manipal)
4	B4	Effect of semidiurnal tides on dissolved inorganic carbon (DIC) and $\delta^{13}\text{C}_{\text{DIC}}$ in a tropical estuary (Mahanadi river estuary)	Mohammad Atif Khan (PRL, Ahmedabad)
5	B5	Biogeochemistry of Nutrient, dissolved Silica along the salinity gradients of three estuaries, Southwest coast of India	D'Souza Nishitha (Manipal Inst Tech, Manipal)
6	B6	Studies on water pollution on water pollution of north Koel river in and around Kechki and Daltonganj, Jharkhand	Nikita Bhagat (Ranchi Univ)
7	B7	Spatial variability and residence time of beryllium isotopes in the Indian Ocean: Role of oceanic processes	Partha Sarathi Jena (PRL, Ahmedabad)
8	B8	Evaluation of the role of carbon and sulfur bio-geochemical cycles on the seasonal arsenic mobilization process in the shallow groundwater of the Bengal aquifer	Pousali Pathak (IISc, Bangalore)
9	B9	Fresh and recirculated submarine groundwater discharge through Indian coastline: A review	Yovan Lino (Manipal Inst Tech, Manipal)
10	P1	The late Miocene monsoon evolution and erosion history of the western Himalaya: insight from IODP Site U1457	Mahboob Alam (BSIP, Lucknow)
11	P2	Isotopic characterization of groundwater of Kerala: Insights into hydrological processes	Amit Pandey (PRL, Ahmedabad)
12	P3	Performance of PRL-AURiS for Radiocarbon measurements	Ankur Dabhi (PRL, Ahmedabad)
13	P4	Ground water level monitoring in the state of Gujarat (1997-2017)	Ishan P. Jariwala (CHARUSAT, Anand)
14	P5	Evidence of Poorly Ventilated Deep Central Indian Ocean during the Last Glaciation	Nisha Bharti (PRL, Ahmedabad)
15	P6	Mean monsoon climate shift at the edge of Roman Warm Period	Phanindra Reddy A (IITM Pune)

16	P7	Reconstructing the variability of deep water circulation in the Indian sector of the Southern Ocean during the last glacial cycle	Pranav S Prem (NCPOR, Goa)
17	P8	Continuous Measurements of Atmospheric Water Vapour Isotopic Composition from Western India	Pratheeksha Nayak (PRL, Ahmedabad)
18	P9	Siliciclastic paleosol revealed paleoclimatic and provenance geochemistry during Gondwana sedimentation; featuring Permo-Triassic sequences of Satpura Basin, Madhya Pradesh, India	Y. Priyananda Singh (Central Univ. Punjab, Bhatinda)
19	P10	Timing and mechanism for the onset of modern like deep water circulation in the Indian Ocean	Priyesh Prabhat (NCPOR, Goa)
20	P11	Revised calibration for otolith clumped isotope thermometry: An extended application to determine growth temperature of travertine	Sanchita Banerjee (IISc, Bangalore)
21	P12	Paleoclimatic Implications of Thermocline Variation in the Equatorial Indian Ocean Region	Sanjit Kumar Jena (PRL, Ahmedabad)
22	P13	Stable isotopes and nitrogen functionalities in coals and their crafty responses to coal metamorphism	Santanu Ghosh (IIT(ISM), Dhanbad)
23	P14	Tracing the impact of basin topography on the hydrological processes in a Himalayan River: A stable isotopic (δD and $\delta^{18}O$) approach	Satyabrata Das (WIHG, Dehradun)
24	P15	First results of Beryllium isotope measurements from PRL-AURIS	Shivam Ajay (PRL, Ahmedabad)
25	P16	Hydrogeochemistry of two tributaries of the Brahmaputra river (Pagladia and Kuls) in Assam, India	Sumi Handique (Tezpur Univ)
26	P17	Structural control on groundwater flow in trans Yamuna region Prayagraj as inferred using remote sensing and GIS	Swarnim (Univ. Allahabad)
27	P18	Perturbations in the Rainfall Trends in India: New Insights from a Different Approach	Swagatika Chakra (PRL, Ahmedabad)

28	P19	Long-term variation of the Sea Surface Temperature over 13 oceanic regions linked to Indian Summer Monsoon Rainfall	Riddhi M. Bhatt (CHARUSAT, Anand)
29	P20	Estimation of Seasonal Base Flow Contribution to a Tropical River Using Stable Isotope Analysis	Himanshu Bhagat (IISc Bangalore)
30	P21	Influence of climate change on precipitation patterns on watersheds of Central Suvarnamukhi Basin, South Interior Karnataka, India	Tejas K (East West Inst Tech, Bengaluru)
31	P22	Thermal state of Eocene-Oligocene tropical Indian Ocean based on carbonate clumped isotope thermometry of planktonic foraminifera from DSDP site 237	Thamizharasan S (IISc Bangalore)
32	P23	Paleomonsoonal reconstruction using lake sediments from coastal Karnataka, Southern India: A multi-proxy approach	A. S. Yamuna Sali (Manipal Inst Tech, Manipal)