

PROGRAM

NATIONAL GEO-RESEARCH SCHOLARS MEET 2016

WADIA INSTITUTE OF HIMALAYAN GEOLOGY,
DEHRA DUN (INDIA)
JUNE 1-4, 2016

June 1, 2016

Registration: 9 AM onwards

Inauguration Ceremony: 9:30 – 11:00

Chief Guest: Prof. Harsh Gupta

President: Prof. S. K. Tandon

Chairman: Prof. Anil K. Gupta

High-Tea: 11:00 – 11:30

Technical Session A: 11:30 – 13:30

Session Chairs: Prof. Rajiv Sinha

Rapporteur: Dr. Praveen Kumar Mishra

Earth surface processes and climate change

Time Schedule	Speaker	Title of Presentation
Key Note A1 11:30 – 11:50	Prof. S. K. Tandon	Understanding the Earth's Surface: Multiple Perspectives
Paper A2 11:50 – 12:00	Arumugam Yuvaraja	The climatic and tectonic events during Neogene: results from ODP Hole 730a, NW Arabian Sea
Paper A3 12:00 – 12:10	Pinkey Bisht	Evidences of Holocene glacial advances in the Kosa basin, Dhauliganga valley, Central Himalaya, uttarakhand, India
Paper A4 12:10 – 12:20	Aasif Lone	Inferring Paleo-environmental Conditions Using Geochemical Signatures: Manasbal Lake, Kashmir, India

Paper A5	12:20 – 12:30	A. A. Fousiya	Stable isotopic investigation of coral porites from Minicoy Island, Lakshadweep
Paper A6	12:30 – 12:40	Saravanan, P.	Abrupt changes in Indian summer monsoon variability during the Middle - Late Holocene
Paper A7	12:40 – 12:50	Ashim Sattar	A temporal study of land surface temperature and precipitation: An evaluation of glacier mass balance and glacial lakes using earth observatory techniques
Paper A8	12:50 – 13:00	Aditya K. Verma	Relative chronological shift of the geomorphic processes across the Sone megafan in the southern Ganga plain: an evidence from fluvial geomorphology
Paper A9	13:00 – 13:10	Kaustubh Sane	Synergistic manifestation of climate & tectonic activity: an evolution of Khari River epigenetic gorge in central mainland Kachchh, Western India
Paper A10	13:10 – 13:20	Sukumar Parida	Controls on the grain size distribution along the rivers of Dehra Dun
Paper A11	13:20 – 13:30	Jairam Singh Yadav	Spatio-Temporal Variability of Air Temperature in the Dokriani Glacier Catchment, Central Himalaya
Lunch Break: 13:30 – 14:00			
Technical Session B: 14:00 – 15:30 <i>Session Chairs: Prof. Sunil K. Singh</i> <i>Rapporteur: Dr. Arvind K. Singh</i> Stratigraphy, Sedimentology, and Quaternary Geochronology			
Time Schedule		Speaker	Title of Presentation
Key Note B1 14:00 – 14:20		Prof. Rajiv Sinha	Fluvial sedimentology and stratigraphy in aquifer characterisation in a geomorphic framework: new perspectives of River Science
Paper B2	14:20 – 14:30	Asma Amjad Ghaznavi	Tectono-sedimentary and climatic setup for Dhosa Sandstone Member (Chari Formation) of Ler dome, Kachchh, western India
Paper B3	14:30 – 14:40	Rohini Das	Physical sedimentation on a Mid Proterozoic shallow basin: A case study from the Kolhan, Jharkhand-Orissa
Paper B4	14:40 – 14:50	Amitava Patra	Depositional conditions and source of rare earth elements in carbonate strata of the early Paleogene succession, Jaisalmer basin, Rajasthan, India
Paper B5	14:50 – 15:00	G. Q. Fernandes	Diagenesis and deformation of the Metagreywacke-Argillite Suite (Goa Group)
Paper B6	15:00 – 15:10	Udita Bansal	Compositional variability of Mesozoic glauconites in response to depositional conditions
Paper B7	15:10 – 15:20	Smruti Rekha Sahoo	Sedimentation dynamics in Kolhan basin
Paper B8	15:20 – 15:30	Amlan Koner	The record of base-profile changes in the Upper Terrestrial division of the early Cretaceous Bhuj formation, India
Tea Break & Poster Session : 15:30 – 16:30			
Technical Session B: 16:30 – 17:50 <i>Session Chairs: Prof. A. K. Awasthi</i> <i>Rapporteur: Miss. Rupa Ghosh</i>			
Key Note B9 16:30 – 16:50		Prof. Sunil K. Singh	-----

Paper B10	16:50 – 17:00	Tanuja Deopa	Facies characteristics and sedimentation model of the Lower Siwalik Group of southeastern Uttarakhand, India
Paper B11	17:00 – 17:10	Shubhendu Shekhar	Architectural element and paleohydraulic analysis of fluvial part of Sandhan Formation, Western Kutch, India
Paper B12	17:10 – 17:20	Jitendra Sharma	Re-validation of the Jajiya member of the Jaisalmer Formation, Rajasthan
Paper B13	17:20 – 17:30	Arvind K. Singh	Process based facies analysis and geochemical investigation of shale intervals from late Paleo-Mesoproterozoic Vindhyan basin: implications towards depositional motif, paleoweathering, provenance and ocean redox state
Paper B13	17:30 – 17:40	Gurumurthy G.P.	Fluvial transfer of molybdenum in tropical humid river and estuarine systems, west coast of India: constraints on marine molybdenum budget
Paper B14	17:40 – 17:50	Shahnawaz	Factors controlling detrital mineral composition of the sandstones of Khardeola Formation (Meso-Neoproterozoic), Chittourgarh, Southeastern Rajasthan, India
Laboratory Visit: 17:50 – 18:30			
Cultural Program: 18:30 – 20:00			
Conference Dinner: 20:00			

JUNE 2, 2016

Technical Session C: 9:00 – 11:30

Session Chairs: Prof. A. K. Jain

Rapporteur: Mr. Rajeeb Lochan Mishra

Geodynamics, tectonics and structural geology

Time Schedule	Speaker	Title of Presentation
Key Note C1 9:00 – 9:20	Prof. D. C. Srivastava	Genetic algorithm: a robust method for stress inversion
Paper C2 9:20 – 9:30	T. Amaldev	Constraints in paleo-fit between eastern Madagascar and southern India and insights for “Ur” supercontinent assembly and dispersal: evidences from the Mercara Suture Zone, southern India
Paper C3 9:30 – 9:40	P. Kalita	Deformation of the Lesser Himalayan Crystallines near Daporijo, Upper Subansiri valley, Arunachal Himalaya
Paper C4 9:40 – 9:50	Dashputre, A. S.	Microstructural analysis of superposed deformation and associated metamorphism in Staurolite-Garnet bearing Metapellites of the South Konkan Region, Maharashtra using photomicrographic mosaics
Paper C5 9:50 – 10:00	Sivaji Lahiri	Quantification of paleostress using quartz veins in Gadag (southern India) – implications of scaling the 3-D Mohr circle to understand gold mineralization during fluid pressure fluctuation
Paper C6 10:00 – 10:10	Vijay Sharma	Autoclastic mass flow in the eastern margin of the Pranhita-Godavari Basin: An indicator of basin margin faulting

Paper C7	10:10 – 10:20	Gaurav D. Chauhan	Tectono-geomorphic signatures in Kachchh Rift Basin: western India
Paper C8	10:20 – 10:30	Gulam Rasool Bhat	Paleoseismic Investigations along active faults of the Northern Segment (South Andamans) of Sunda Andaman Subduction Zone - Implications of the paleoseismicity on seismic landscape evolution and associated Hazard
Paper C9	10:30 – 10:40	Subham Bose	Progressive fabric overprinting: a case study from the Mahanadi Shear Zone, Eastern Ghats Belt, India
Paper C10	10:40 – 10:50	A. K. Verma	Structural studies in the Main Central Thrust zone of the Munsiri area, Eastern Kumaun Himalaya
Paper C11	10:50 – 11:00	Md. Sayad Rahaman	High-K granitoid of Banded Gneissic Complex (BGC), Aravalli craton: result of thermally reactivated older basement entity
Paper C12	11:00 – 11:10	Iftikhar Ahmad	Grey gneisses of the Mangalwar complex, Aravalli craton: insight from geochemistry
Paper C13	11:10 – 11:20	Arindam Sarkar	Textural and micro-chemical analysis of pseudotachylyte from two different tectonic settings of Indian craton to understand role of frictional heating and melting of rocks on seismogenic faults
Paper C14	11:20 – 11:30	Mohit Kumar	Kinematics and deformation temperature of Almora and Ramgarh klippen south-eastern Kumaun Lesser Himalaya; Emphasis on microstructure and quartz LPO study
Tea Break: 11:30 – 11:45			
Technical Session D: 11:45 – 13:25			
<i>Session Chairs: Prof. A. K. Gupta</i>			
<i>Rapporteur: Dr. Rajita Shukla / Dr. Suman Lata Rawat</i>			
Biogeosciences			
Key Note D1	11:45 – 12:05	Prof. Devesh Sinha	Recent developments in Quaternary stratigraphy climatic and oceanographic considerations
Paper D2	12:05 – 12:15	Shreya Mishra	Scenario of lower Gondwana Ecosystem through palynology, taphonomy and palynofacies during Late Permian in Sattupalli area, Godavari Graben, India
Paper D3	12:15 – 12:25	Sonal Khanolkar	Foraminiferal biofacies of the early Eocene warming in equatorial India
Paper D4	12:25 – 12:35	Adrita Choudhuri	Role of microbial mat in intrastratal clast generation in carbonate formations
Paper D5	12:35 – 12:45	Ningthoujam Premjit Singh	Taphonomy and palaeoecology of faunal and floral assemblages from lower Siwalik sequence exposed around Ramnagar, Udhampur district, Jammu and Kashmir
Paper D6	12:45 – 12:55	Ankita Singla	Identifying rodent assemblages in the Siwalik fossil record using incisor enamel microstructure
Paper D7	12:55 – 13:05	Hemant Sonkusare	The Camoebians and associated Microflora from Late Cretaceous Lameta sediments and Dinosaur Coprolites of Nand-Dongargaon basin, central India
Paper D8	13:05 – 13:15	Ankush Shrivastava	Response of Benguela upwelling during late Quaternary glacial Interglacial cycles
Paper D9	13:15 – 13:25	Choudhurimayum Anup Sharma	Ichnofacies Analysis of the Tal Group (Cambrian) of the Nigalidhar Syncline, Lesser Himalaya, India
Lunch Break: 13:25 – 14:00			
Technical Session E: 14:00 – 15:30			

<p style="text-align: center;"><i>Session Chairs: Prof. D. C. Srivastava</i> <i>Rapporteur: Mr. Khogen Singh</i> Petrology, Geochemistry, and Geochronology</p>			
Key Note E1	14:00 – 14:20	Prof. Somnath Dasgupta	Insights into time scales of orogenic processes
Paper E2	14:20 – 14:30	N. Mohanty	Petrogenesis of Madawara Igneous Complex, Bundelkhand Craton, Central India
Paper E3	14:30 – 14:40	Praveen Chandra Singh	Metamorphic evolution of silica deficient Mg-Al granulites from Jagtiyal section, Eastern Dharwar craton, India: constraints from thermobarometry, quantitative phase equilibria modeling
Paper E4	14:40 – 14:50	Debidarsani Sahoo	Raman Spectroscopic study of carbonaceous matter: assessment of temperature of hydrothermal activity and low-temperature metamorphism
Paper E5	14:50 – 15:00	Rimpi Dhiman	Modeling using trace elemental behavior for generation and emplacement of low melt fractions of Dalhousie Granite, Himachal Himalayas
Paper E6	15:00 – 15:10	Anirban Chowdhury	Carbonatite petrogenesis in the framework of the northeast Indian Kerguelen plume volcanism
Paper E7	15:10 – 15:20	Kandukuri Sai Krishna	Petrology and geochemistry of Gokanakonda ferrosyenites from Settopalle alkaline complex of Cuddapah intrusive province, Andhra Pradesh, India
Paper E8	15:20 – 15:30	Gajender Kumar	2540 Ma anorogenic magmatism in Bundelkhand craton: evidence from shrimp U-Pb-zircon Chronology and Biotite Composition
Tea Break & Poster Session: 15:30 – 16:30			
<i>Technical Session E: 16:30 – 17:40</i> <i>Session Chairs: Prof. Somnath Dasgupta</i> <i>Rapporteur: Dr. Praveen Chandra Singh</i>			
Paper E9	16:30 – 16:40	Saurabh Gupta	Association of porphyritic volcanics and quartz pegmatite in Laguar region of Kumaun Lesser Himalaya: Field evidence of granite assimilation and generation of hydrothermal system
Paper E10	16:40 – 16:50	T. Pulla Rao	Petrography of Gokanakonda gabbro pluton, Prakasam alkaline province, Andhra Pradesh, India
Paper E11	16:50 – 17:00	Mr. Manoj Kumar Yadav	P-T evolution of the UHT granulites from Rajapalayam, Madurai block, southern India
Paper E12	17:00 – 17:10	S. Khogenkumar	Forearc magmatism near the eastern flank of the Indian plate: Evidence from geochemistry of mafic intrusive rocks of the central part of Nagaland-Manipur Ophiolite, Northeast India
Paper E13	17:10 – 17:20	Ch. Narshimha	Intergrowth textures and their possible origin in the Koheda pink granite, East of Hyderabad city, India
Paper E14	17:20 – 17:30	Biswajit Hazarika	Geochemical characterization of Archean mafic volcanics from Amgaon greenstone belt of western Bastar craton, Central India: Evidence of oceanic crustal remnants
Paper E15	17:30 – 17:40	Mohd Shaif	Petrographic characteristics of Host Rocks of Banswara Manganese Ores Belt, Banswara District, Rajasthan (India)
Laboratory Visit: 17:40 – 18:30			
Director's Dinner: 19:00			

JUNE 3, 2016

Technical Session F: 9:00 – 11:00

Session Chairs: Dr. V. M. Tiwari

Rapporteur: Dr. Bhanu Pratap Singh

Geophysical techniques and their applications

Time Schedule	Speaker	Title of Presentation
Key Note F1 9:00 – 9:20	Dr. V. M. Tiwari	Hydrology from Space
Paper F2 9:20 – 9:30	S. S. Baral	InSAR technique in post-earthquake surface deformation studies for Bhuj and the expected neotectonic activity
Paper F3 9:30 – 9:40	Shiv Jyoti S. Pandey	Estimation of epicenter location and source parameters of local earthquakes of J&K: an evidence of 2013 Kishtwar Earthquake
Paper F4 9:40 – 9:50	Divyanshu Dwivedi	Source depth estimation using extreme points of the scaled gravity field
Paper F5 9:50 – 10:00	Ritima Das	Extensive seismic anisotropy in the lower crust of Archean metamorphic terrain, South India, inferred from ambient noise tomography
Paper F6 10:00 – 10:10	Utpal Saikia	Lithospheric deformation beneath the Dharwar Craton: Evidence From Upper Mantle Anisotropy
Paper F7 10:10 – 10:20	C. P. Simha	Observation of atmospheric and ionospheric anomalies for the Nepal Earthquake on 25th April 2015
Paper F8 10:20 – 10:30	Shveta Puri	Seismotectonics and fault mechanism of Kishtwar region of Northwest Himalaya
Paper F9 10:30 – 10:40	Mahesh Prasad Parija	A preliminary one dimensional crustal Velocity model for Himachal Pradesh, India
Key Note F10 10:40 – 11:00	Dr. Ajay Manglik	-----
Tea Break & Poster Session: 11:00 – 12:00		
Technical Session G: 12:00 – 14:20		
<i>Session Chairs: Prof. A. P. Dimri</i>		
<i>Rapporteur: Mr. P. K. Garg</i>		
Environmental Geology, Engineering Geology, and Natural Hazards		
Key Note G1 12:00 – 12:20	Prof. A. P. Dimri	Dynamical understanding of Natural Hazards over Southern rim of the Himalaya
Key Note G2 12.20 - 12.40	Prof. Talat Ahmad	Geochemical constraints on magma genesis & tectonics
Paper G3 12:40 – 12:50	Dhanamadhavan, S	Impact of sea-level rise on seawater intrusion in coastal aquifer south of Chennai, India
Paper G4 12:50 – 13:00	Laxmi Thokchom	Assessment of surface water and groundwater quality in the parts of the Manipur valley, Northeast India
Paper G5 13:00 – 13:10	Abhilasha Chourasia	Recent scenario of Rajghat dam reservoir of district Sagar, Madhya Pradesh, India and their health impact
Paper G6 13:10 – 13:20	Savita Kumari	Chemical Quality of Ground Water around Tosham Area, District Bhiwani, Harayana

Paper G7	13:20 – 13:30	S. Selvakumar	Geochemical processes controlling groundwater salinization in a coastal aquifer of southern Tamil Nadu: Identification of natural and anthropogenic influences
Paper G8	13:30 – 13:40	Ajit Singh	Factors controlling the export of geochemical solutes in meltwater stream of Sutri Dhaka Glacier, Chandra Basin, Western Himalayas
Paper G9	13:40 – 13:50	M. Lingaswamy	Assessment of groundwater and surface water quality in the covering Katedan watershed, Rangareddy district, Telangana, India
Paper G10	13:50 – 14:00	Thivya, C.	Seasonal and spatial behavior of uranium in groundwater of hard rock aquifers of Madurai district, Tamil Nadu
Paper G11	14:00 – 14:10	Vipin Kumar	Hazard Evaluation of Progressive Pawari Landslide Zone, Kinnaur, Satluj Valley, Higher Himalaya, India
Paper G12	14:10 – 14:20	Bhanu Pratap	Dynamic Response, Mass Balance and the State of Dokriani Glacier, Garhwal Himalaya from 1992-2015
Lunch Break: 14:20 – 15:00			
Field Excursion: 15:00			
Laboratory Visit: 17:00 – 18:00			
Dinner: 19:00			

June 4, 2016

Technical Session H: 09:00 – 11:00

Application of Geospatial techniques (Remote Sensing & GIS) in Earth sciences

Session Chairs: Dr. P. K. Champati Ray

Rapporteur: Mr. Vipin

Time Schedule	Speaker	Title of Presentation
Key Note H1 9:00 – 9:20	Prof. M. K. Arora	Remote Sensing and GIS for landside studies
Paper H2 9:20 – 9:30	M. Thirumurugan	Assessment of groundwater potential zone using the GIS/Remote sensing data in Shahpur taluk, Karnataka, India
Paper H3 9:30 – 9:40	Kavita Mitkari	Extraction of glacial lakes from high resolution satellite Remote Sensing data
Paper H4 9:40 – 9:50	Sourav Mukhopadhyay	Geomorphic characterization and diversity of Interfluvial River Vel- DEM base case study for Watershed Management
Paper H5 9:50 – 10:00	M. K. Kripa	Estimation of LST And NDVI of Pichavaram Mangrove ecosystem using LANDSAT Data
Paper H6 10:00 – 10:10	S. Borgohain	Development of a GIS based relative Flood Potential Index (FPI), implications on some Himalayan rivers
Paper H7 10:10 – 10:20	Gaurav Singh	Hypsometric analysis of Mohand anticline, Uttarakhand, India using Geospatial technology
Paper H8 10:20 – 10:30	Reeta Rani	GIS based analysis of suitability of Groundwater for Irrigation purposes in Hisar District, Haryana, India
Paper H9 10:30 – 10:40	Sanjeev Kumar	Land use/ Land cover mapping of K-J Watershed using Remote sensing and Geographical Information system

Paper H10	10:40 – 10:50	Saranya P.	A comprehensive evaluation of drought in Periyar river basin, southern Western Ghats, India: a Geo-spatial approach
Paper H11	10:50 – 11:00	Purushottam Kumar Garg	Debris cover variations and dimensional changes in the glaciers of Western Himalaya using geospatial techniques
Tea Break & Poster Session: 11:00 – 12:00			
<p><i>Technical Session I: 12:00 – 13:10</i> <i>Session Chairs: Dr. Rajesh Sharma</i> <i>Rapporteur: Mr. Puneet Singh</i></p> <p>Economic and ore geology, mineral exploration</p>			
Key Note I1	12:00 – 12:20	Prof. Santosh Kumar	Modelling the redox series of felsic magma system and its relation to mineralization
Paper I2	12:20 – 12:30	Vijay Kumar Singh	Environmental aspects of sensitive trace elements associated with coal and natural waters of Eocene coal field of Cambay Basin and their impact on human health
Paper I3	12:30 – 12:40	Atul Kumar Rastogi	Mineralogical and textural changes of Banded Hematite Quartzite to high grade iron ore, a case study from Dalli-Rajhara, Chhattisgarh
Paper I4	12:40 – 12:50	P. Ravikanth	Limestone Mineral Resources In Parts Of Adilabad District, Telangana State, India
Paper I5	12:50 – 13:00	Pramod Kumar Rajak	Lignite maturity and its oil/gas potential of Barsingsar lignite, Bikaner-Nagaur Basin, Rajasthan
Paper I6	13:00 – 13:10	Alok Kumar	Organic petrology and depositional environments of Lignites of Nagaur, Rajasthan, India
Lunch Break: 13:10 – 14:00			
Valedictory Function: 15:00 High Tea			

*Thanks for attending
this meet*