Dr. Harisingh Gour Vishwavidyalaya, Sagar
Department of Applied Geology
NATIONAL SEMINAR
DECCAN VOLCANISM & BIOTIC EVENTS ACROSS THE K/T BOUNDARY
&
Annual General Meeting-2017 (AGM-2017) of the Geological Society of India

PROGRAMME

VENUE: JAWAHARLAL NEHRU LIBRARY HALL, DR. HARISINGH GOUR VISHWAVIDYALAYA, SAGAR

DAY-1 : 26TH OCTOBER 2017

Breakfast	: 8:00-9:00 AM
Registration	: 8:00-9:30 AM
Inaugural Function	: 09:30 to 10:45 AM (*Elaborated Separately*)
High Tea	: 10:45-11 AM

TECHNICAL PROGRAMME

WADIA HALL, CASG BUILDING (DEPARTMENT OF APPLIED GEOLOGY)

Tech. Session: I Petrology & Geochemistry of Deccan Volcanics & Associated Sedimentaries

Time: 11:00 AM-1:30 PM

Chairman: Prof. P. O. Alexander — **Co-Chairman: Shri Mukul Tiwari**

Special talks:

1. ***Prof. H. K. Gupta-*** Artificial water reservoir triggered earthquakes at Koyna, India. *(jointly with V.M. Tiwari, H.V.S. Satyanarayana, Sukanta Roy Kusumita Arora, B.P.K. Patro, D. Shashidhar, K. Mallika, V, Akkiraju, Surajit Misra, Deepjyoti Goswami, Nagaraju Podugu, Satrughna Mishra)*
2. ***Shri K. S. Misra-*** Finding of Cretaceous volcanic units in petroliferous and ocean basins in and around Peninsular India: implications on K-T boundary. *(jointly with Anshuman Misra)*

	Title	Author(s)
1	Petrology and whole rock geochemistry of the dyke swarm along western coast of Goa, India.	**R. Gadgil** and A. Viegas
2	Evolution of petrogenetic - models of the Deccan basalts: an overview.	**P. Krishnamurthy**
3	Phase petrographic study of Kerguelen plume related Cretaceous mafic dykes in Precambrian gneissic complex in Swangkre-Rongmil area of south Khasi and east Garo hills districts of Meghalaya, NE India.	**Niva Rani Devi**
4	Significance of the Deccan equivalent dykes from the southern granulite terrain.	**P. Pratheesh**, V.Prasannakumar, K. R. Praveen & C. Vikas
5	Estimation of relative contribution of different mantle sources in the Deccan continental flood basalts, India.	**Laxman B. More** & K. Vijaya Kumar
6	Field and petrography of the lava packages across Koyna bore hole (KBH1) section in the southwestern Deccan Volcanic Provence.	**Sonu Shimar**, Amit Kumar, Vamdev Pathak, J. P. Shrivastava, M. Satyanarayanan, Digant Vyas, Dinesh Nikalje & Sukanto Roy
7	CO_2 capture induced cell parametric and interatomic changes in Deccan basalt andesine and formation of calcite under hydrothermal-like conditions.	**Amit Kumar** & J. P. Shrivastava

1:30-2:30 PM LUNCH BREAK

Tech. Session: I Petrology & Geochemistry of Deccan Volcanics & Associated Sedimentaries (*Contd.*)

Time: 2:30-4:00 PM

Chairman: Prof. Harsh K. Gupta — **Co-Chairman: Dr. P. Krishnamurthy**

Special Talks:

1. ***Prof. Pramod O. Alexander:*** At last! Giant plagioclase basalt from Sagar district *(jointly with M.K. Purohit)*
2. **Dr. D. K. Sinha-** The megascopic characteristics of basalt and basement rocks from bore hole drilled in Koyna-Warna area of Maharashtra State, India. *(jointly with Anjan Som and Sukanta Roy)*

	Title	Author(s)
8	Earthquake focal mechanism studies in Koyna-Warna region: current understanding on tectonics and seismogenesis.	**D. Shashidhar,** N. Purnachandra, Rao, K. Mallika, C.R. Mahato, B.S. Maity, H.V.S. Satyanarayana & Harsh Gupta
9	MT studies in the Koyna region and inferences.	**Prasanta K. Patro** & Ujjal K Borah
10	Borehole seismological studies at Koyna-Warna, India.	**H. V. S. Satyanarayana**, D. Shashidhar, K. Mallika, Harsh K. Gupta, N. Purnachandra Rao, C. R. Mahato, B. S. Maity, D. Narsinga Rao, A. N. S. Sarma & B. Ajay
11	Environmental effects of Deccan volcanism on biotic changes and K/Pg mass extinction: organo-molecular evidences from the intra-volcanic bole horizons from the Mandla lobe of the eastern Deccan volcanic province.	**Surabhi Srivastava** & J. P. Shrivastava

4:00-4:15 PM TEA BREAK

ENDOWMENT LECTURE & AGM-2017 WADIA HALL, CASG BUILDING

Endowment lecture: Paleomagnetism & rock magnetism:some Indian examples
by *Dr. T. Radhakrishna* : (4:15-5:00 PM)
Annual General Meeting: (5:00-7:00 PM)

7:30-9:00 PM CULTURAL PROGRAMME AT *SAMADHI STHAL* & 9:00 PM Dinner

DAY-II (Venue: Wadia Hall, CASG, Applied Geology Department)

8:30-9:00 AM BREAKFAST

Tech. Session: II Paleontological Proxies & Palaeoenvironmental Analyses

Time: 9:00 - 11:30 AM

Chairman: *Prof. Subhendu Bardhan* **Chairman: *Prof. Anand K. Jaitly***

Special talks:

1. **Prof. Ashok Sahni-** The Indian Late Cretaceous: changing perspectives.
2. **Prof. P. K. Saraswati -** Resolution of the stratigraphic records: Are we too demanding?

	Title	Author(s)
1	Paleoenvironmental significance of different color paleoweathering surfaces in Deccan Volcanic Province.	**Priyeshu Srivastava**, N. S.Siddaiah, S. J. Sangode & D.C. Meshram
2	Environmental significance of trace fossils from the Late Cretaceous of Bagh Group, Men river valley, Gujarat, western India.	**Apurva U. Bhosale**, Satish J. Patel, Jaquilin K. Joseph & Jehova L. Darngawn
3	Paleoenvironmental analyses by using planktonic foraminiferal record of the late Quaternary sediments of the Andaman Sea.	**A. V. Sijinkumar**, B. Nagender Nath & S.M.Gupta
4	Evolution of palms (Arecaceae) in India.	**Gaurav Srivastava** & R.P. Tiwari
5	Non-marine ostracod fauna from a new Intertrappean locality from central India.	**Kshetrimayum Deepak**, Singh & Varun Parmar
6	Some interesting elements of the Deccan Intertrappean flora of India.	**R. C. Mehrotra** & R. P. Tiwari
7	Geochemical and paleobiological harmony for establishing quasi-oceanic affinity of Sagar flows, N.E. part of Deccan Volcanic Province.	**P. K. Kathal** & P. O. Alexander
8	Paleo-environmental conditions and fate of organic matter in the K/T boundary: case study from Rajahmundry, southern India.	**Sohom Roy**, Sambit Ghosh & Prasanta Sanyal

11:30-11:45 AM TEA BREAK

Tech. Session: III Case Studies across the K/T Boundary in the subcontinent

Time: 11:45 AM-1:30 PM

Chairman: *Prof. Ashok Sahni* **Co-Chairman: *Dr. Vandana Prasad***

Special talks:

1. ***Naresh C. Mehrotra-*** Significance of dinoflagellate cysts in petroliferous basins of India along K/T Boundary with supportive pollen data.
2. ***Prof. Subhendu Bardhan-*** Pattern of K-T mass extinction event.

	Title	Author(s)
1	Biotic events across K-T boundary in the Manipur region, India.	Y. Raghumani Singh & **B.P Singh**
2	Shell concentrations/shell beds in Nodular Limestone Formation of Bagh Group, central India.	**S. Kumar**
3	The Turonian (Late Cretaceous) bivalves from the Bagh Group, central India: a review.	**Anand K. Jaitly**, Deo Brat Pathak, Bindhyachal Pandey, Susheel Kumar & Jai Prakash Gautam
4	Sedimentology of the Late Cretaceous Lameta Formation of Jabalpur area, central India.	**U. K. Shukla**
5	New Fossil evidence from late Cretaceous Infratrappean sediments, Yeotmal suggests marine transgression in to central India from the east coast.	**Vandana Prasad**, Anjum Farooqui, Srikanta Murty, Omprakash S. Sarate & Sunil Bajpai

6	Mass extinction of the molluscan community at the K-T boundary in Rajahmundry, Andhra Pradesh, India.	Sumanta Mallick, **Shiladri S. Das** & Subhendu Bardhan
7	Effects of regional fire on foraminifera and attendant paleoenvironment during K/Pg transition: organo-chemical evidence from the Um Sohryngkew River section, Meghalaya, India.	**Sucharita Pal**, J. P. Shrivastava & Sanjay K. Mukhopadhyay
8	Palynological proxies as an effective aid to extinction boundary researches in India.	**G. K. Singh**
9	K/T Extinction –revisit to possible causes.	Neha Trivedi, **Abhay Nand Yadav**, Preetesh Pyasi & R. K. Trivedi

Technical Session: IV Palaeomagnetic Studies across the K/T Boundary

Time: 3:00-4:30 PM

Chairman: ***Shri N. K. Dutta*** **Chairman:** ***Shri P. S. Parihar***

Special Talk:

1. Dr. Kusumita Arora - *LiDAR Surveys at Koyna* (Jointly with Y. Srinu)

	Title	**Author(s)**
1	Rock magnetic characterization of impact shocked products from Lonar Crater.	**Mohammad Arif**
2	Rock magnetic characterization of indurated clay bearing basaltic profile from Kalaburagi, Karnataka, India.	**Sharath Raj B**, Pranav Jayadevan, Mohammed Aslam & R. Shankar
3	Paleomagnetic and AMS studies on lava flows from Mandla Lobe of the eastern Deccan volcanic province, India: Inferences on Magnetostratigraphy and lava flow direction.	**Vamdev Pathak**, J. P. Shrivastava & S. K. Patil
4	Record of seismic activities in central India, M.P., India.	**Arun K. Shandilya**, Md. Azam Khan, Shivam Tiwari, Prabhat Diwan, Y. K. Mawle, & D. C. Jharia
5	When did the modern Indian Monsoon System established? Insights from deep sea records.	**R. K. Satpathy**, Pradyumna Singh, Harshit Singh & A. D. Singh

5:00 PM Tea Break

Valedictory

(Breakfast from 8:30-9:00 AM)

Parallel Session on 27th October 2017

Venue: JAWAHARLAL NEHRU LIBRARY HALL

Technical Session: VI Palaeontological Studies (Other Areas)

Time: 9:00 - 11:30 AM

Chairman: ***Dr. N. C. Mehrotra*** **Co-Chairman:** ***Prof. Pratul . K. Saraswati***

	Title	Author(s)
1	Trace fossil assemblage of Oligocene (Barail Group) from Ngur Area, Champhai district, Mizoram.	**Lalawmpuii**b. Malsawma, Paul Lalnuntluanga, Chinmoy Rajkonwar & R. P. Tiwari
2	Recent developments in the Early Cretaceous ammonoid biostratigraphy in India.	**Deo Brat Pathak,** Bindhyachal Pandey, Anand K. Jaitly, Jai Prakash Gautam & Susheel Kumar
3	Paleomires of western India.	**Prakash K Singh**
4	Albian ammonites from the Karai Formation, Cauvery Basin, Tamil Nadu.	**Jai Prakash Gautam,** Bindhyachal Pandey, Anand Kumar Jaitly, Deo Brat Pathak & Susheel Kumar
5	Holocene vegetation, palaeomonsoon and palaeotemperature fluctuations in the Hengduan Mountains Region, Southwest China.	**Anjali Trivedi** , Ye-Na Tang, Yi-Feng Yao, Anjum Farooqui, Alexandra H. Wortley, Yu-Fei Wang, Stephen Blackmore & Cheng-Sen Li

Tea Break 11:30-11:45 AM

Technical Session: Miscellaneous

Time: 11:45AM - 2:00 PM

Chairman: ***Dr. K. S. Misra*** **Co-Chairman:** ***Dr. Prasanta K. Patro***

	Title	Author(s)
1	The Karada fluorite deposit: a manifestation of Upper Cretaceous reactivation in Malani Igneous Suite, Northwest, India.	**K. L. Shrivastava**, Virendra Gaur, C. P. Dadhich, Vijay Kumar & Alka Gehlot
2	Geochemistry of Middle Bhuban Sandstone from Aizawl district of Mizoram: implications on classification, weathering history, provenance and tectonic setting.	**Jimmy Lalnunmawia** & H. Thomas
3	Crustal deformation study in Aizawl Area, Mizoram through GPS measurements.	**J. Malsawmtluanga**, J. Malsawma, R. P. Tiwari & V. K. Gahalaut
4	Garnet-orthopyroxene thermometer: a comparative study.	Md. Shahid, Urvashi Singh, **Haritabh Rana** & H. Thomas
5	Hydrogeological mapping of unconfined aquifer of Anore, Dhanore and Garkhede villages of Dharangaon taluka, district Jalgaon (M. S.).	**S. N Patil**, Nilesh Marathe, Sandip Bedase & Nikhil Patil
6	Fluvial channel evidences from an ancient supracrustal quartzite section near Annakkalmala, Nilambur valley, Kerala.	**Gaurav K Singh** & Kausik K Ghosh
7	Magma mingling and mixing evidences from Kyrdem Granitoids, Meghalaya.	**L. Lemba Singh**, S. Kavita Devi & H. Thomas
8	Magnetostratigraphic and minerals magnetic studies in Midum Kham Section, Bhuban Formation, Surma Group, Mizoram, India.	**B. Malsawma**, R. P. Tiwari & S. J. Sangode
9	Magnetostratigraphic calibration and mineral magnetics of Barail succession of Zote-Ngur section, Champhai, Mizoram.	**Paul Lalnuntluanga**, J. Malsawma, C. Lalremruatfela, R. P. Tiwari & S. J. Sangode
10	Petrography of Barail Sandstone of Champhai - Mualkawi section, Champhai district, Mizoram: implication on provenance and tectonic setting.	**Malsawmtluangkima Hauhnar**, H. Thomas & Jimmy Lalnunmawia

Technical Session: Miscellaneous (*Contd..*)		
Time: 2:00-5:00 PM		
Chairman: *Shri. N. Rajendran*		**Chairman:** *Mr. A. S. Khan*
	Title	**Author(s)**
11	Hydrochemical facies, quality and pollution potential studies of groundwater, Satna city, central India.	**R .N. Tiwari** & U. K. Mishra
12	Recent evidences of deformations in Deccan basalt in Nanded area, Maharashtra, India.	Kaplay, R. D. & **Md. Babar**
13	Garnet-Biotite thermometer: A comparative study.	**Haritabh Rana**, Mohammad Shahid & Harel Thomas
14	Clay mineral of loess-palaeosol sediments of Dilpur Formation of Karewa: palaeoenvironmental and provenance studies	**Meenakshi, R. Chandra** & J. P. Shrivastava
15	Massive Open Online Course (MOOC) on Petrology.	Harel Thomas
16	Impact of 'August 20, 2007 flood on soil, river terraces, along the banks of Narmada and areas close to civil-structures, Mandla district, M.P., India.	**Arun Kumar Shandilya**
17	Assessment and management of groundwater resources of Lalgaon Area, Rewa district, Madhya Pradesh.	**R. N. Tiwari,** U. K. Mishra & Kamta Pd. Bhurtiya
18	Genesis of base metal mineralization around Borkhap area, Chhindwara district, Madhya Pradesh: A preview.	**Akanksha Sahu** & R.K. Trivedi
19	Time movement relations of deformation verses metamorphism, Untala granite, east central Rajasthan.	**Y. K. Mawale**
20	Iron and manganese mineralisation in Mahakoshal Group of rocks around Goshalpur, Jabalpur (M. P.).	**S. K. Barman** & R. K. Trivedi
21	Studies on landslide between Rudraprayag and Gaurikund along Mandakini valley, Uttarakhand, India.	Mohammed Azam Khan & A. K. Shandilya
22	Fluorosis: A geo-genic public health issue in granitic regions.	**Jemini Kathik**, Navneet Ranjan & Paisnee Patel
23	Uranium mineralisation in Sarguja shear zone.	**Neeraj Kumar Paswan** & R. K. Trivedi
24	Understanding the Petrogenesis of PGE bearing ultramafics and their role in crustal building processes. A study from Boula-Nuasahi Area, Odisha.	**Sipun Sahoo** & K. K. Prajapati
25	Investigation of the major landslides along National Highway (NH10) from Singtam to Gangtok in Sikkim region, North-Eastern India: A preview.	**Vaibhav Jain** & R. K. Rawat
26	Study of neotectonic activity in the lower Chambal valley using remote sensing and GIS techniques: A preview.	**Sunil Kumar Panday** & R. K. Rawat
5:00 PM Tea Break		
Valedictory (Wadia Hall, Department of Applied Geology)		
6:00 PM High Tea		