

5. Earth System Sciences

January 04, 2020

Sectional President		Prof. R.B. Singh Department of Geography, University of Delhi, Delhi 7
Sectional Secretary		Prof. K.N. Kalyanamurthy Department of Agronomy, College of Agriculture, Bangalore
Sectional Recorder		Dr. B.W. Pandey Department of Geography, University of Delhi, Delhi 7
14:00 – 17:00		
SECTIONAL COMMITTEE MEETING		
Venue	:	Cluster-II Seminar Hall (Agronomy New) Hall 20
Presidential Address	:	Professor R.B. Singh: University of Delhi <i>Advancing earth system sciences towards climate and disaster resilience for sustainable rural development</i>
Platinum Jubilee Lecture	:	Dr. V.M.Tiwari Director-CSIR-National Geophysical Research Institute, Hyderabad <i>Quantifying hydrological fluxes for water management and decision</i>
Prof. William Dixon West Memorial Award	:	Prof. William Dixon West Memorial Award Prof. Chakravadhanula Manikyamba Head, Geochemistry Division, CSIR-National Geophysical Research Institute, (NGRI), Uppal Road, Hyderabad 500 007 Telangana, India. Email: cmaningri@gmail.com
Award Lecture/ Young Scientist Award Presentations		<ol style="list-style-type: none"> 1. Satabdi Misra Coal Geology and Organic Petrology Lab, Department of Applied Geology, Indian Institute of Technology (Indian School of Mines), Dhanbad, Jharkhand – 826 004. 2. Mahesh Madhawrao Solankar Department of Computer Science and information Technology, Dr.Babasaheb Ambedkar Marathwada University, Aurangabad (MS) – 431004.

		3. Puneet Kumar Verma Department of Chemistry, Dayalbagh Educational Institute, Dayalbagh, Agra, U.P. – 282 005.
17.00 – 17.30 SECTIONAL COMMITTEE ELECTION		
January 05, 2020		
14:00 – 17:30		
Venue		Cluster-II Seminar Hall (Agronomy New) Hall 20
14.00 – 16.00 Symposium		
Invited Lectures 20 minutes each	:	<p>Dr. Harsh K. Gupta: Inaugural Address Member, Atomic Energy Regulatory Board President, Geological Society of India National Geophysical Research Institute, Hyderabad <i>Developing an earthquake and tsunami resilient society</i></p> <p>Prof. Kazuo Tomozawa Graduate School of Letters, Hiroshima University, Japan <i>How to live in an aging society: lessons from rural Japan?</i></p> <p>Dr. M.R. Ramesh Kumar Physical Oceanography Division, National Institute of Oceanography, Goa <i>Vagaries in monsoon: role of ocean atmospheric process</i></p> <p>Dr. Chris King Keele University, UK. <i>Teaching interactive earth science in schools across the world</i></p> <p>Dr. Dewashish Kumar CSIR-National Geophysical Research Institute, Hyderabad <i>High resolution electrical tomography mapping for groundwater exploration, prospecting and development in a different geological settings</i></p> <p>K. Siddhartha <i>India as a super soft power: prospects of geoscience city. Creating a global brand of mini planet which will be a global city. A global university to take India towards Vishwa guru & creating a billion dollar industry</i></p>

Venue		Cluster-II Seminar Hall (Agronomy New) Hall 20
16.00 – 17.45	Invited Lectures/ Oral Presentations	
20 minutes each		<p>Dr. R. Shankar Past Chair, International Geoscience Education Organization <i>Earth science education in high schools in India</i></p> <p>G. Parthasarathy INSA Senior Scientist, School of Natural and Engineering Sciences, Indian Institute of Science Campus, Bengaluru <i>Applied mineralogy for environmental and sustainable development</i></p> <p>A.K. Sinha Vice Chancellor GSM University, Navi Mumbai, Maharashtra <i>Connecting hydrological, socio-economic and scientific dots towards resilient ground water management system in dry regions of western India</i></p> <p>Santanu Ghosh and Atul Kumar Varma Indian Institute of Technology, Dhanbad <i>Metamorphic facets of the coals from the Himalayan fold-thrust belts of Sikkim, India</i></p> <p>S. Lalitha Nagesvari Program Manager, United States-India Educational Foundation, Fulbright Commission in India, Chennai <i>Information session on fulbright-nehru, fulbright-kalam and other fulbright fellowship opportunities</i></p>
15.00 – 17.30	Concurrent Poster Session –I	
Earth System Science for Resilience and Disaster Risk Reduction		

January 06, 2020

Earth Sciences-I

02:00 - 06:00 PM

Venue : Cluster II- College of Agriculture, South Block : Hall 19

Earth System Science for Resilience and Disaster Risk Reduction

Invited Lecture	: Koichi Kimoto Kwansei Gakuin University, Japan <i>Enclosing the earth – protected India</i>
	Pankaj Kumar¹ and Narayani Gogoi² ¹ Delhi School of Economics, University of Delhi ² Indian Institute of Technology Guwahati <i>Estimating the impact of climate change on freshwater availability in the dhansiri watershed</i>
	: Nagarjun Kumar S M and Arun Das S Department of Studies in Geography, University of Mysore. <i>Tracing the paths of paleo channels of southern kabini river basin: a signature of changing climate.</i>
	: Ramanathan Baskar¹ and Sushmitha Baskar² ¹ Department of Environmental Science and Engineering, Guru Jambheshwar University of Science and Technology, Hissar ² Environmental Studies, School of Interdisciplinary and Transdisciplinary Studies, Indira Gandhi National Open University (IGNOU), New Delhi <i>Linkages between microorganisms and climate change: frontier areas of research</i>
	: K. Kumaraswamy Department of Geography, Bharathidasan University Tiruchirappalli <i>Climate change and its influences on the coastal landforms of Tamil Nadu, South India</i>
	: Debasri Mukherjee¹ and M N Roy² ¹ Senior Research Officer, Sigma Foundation, Kolkata ² President, Sigma Foundation, Kolkata <i>Decentralized water governance: mobilizing community towards sustainable development goal-6 by 2030</i>
: Malabika Biswas Roy Department of Geography, Women's College, Calcutta, Kolkata <i>Wetlands: environmental role, issues and challenges</i>	

Invited Lectures/ Oral Presentations

: **D. Panda¹ and M. Devi²**

P.G. Department of Geography, Utkal University, Bhubaneswar
Department of Physics, School of Applied Sciences, KiiT University, Bhubaneswar

Impact of Cyclone Disaster and their management in Odisha

: **M. A. Shaikh¹, S. C. Karle¹, S. M. Anpat², S. S. Dubal³ and S. B. Sayyad⁴**

Savitribai Phule Pune University, Pune
²Marathwada Mitramandal College of Commerce, Pune
³Balbhim Arts, Science and Commerce College, Beed
⁴Milliya Arts, Science & Management Science College, Beed.

Vegetation area estimation of microwave l band sir-c sar dataset using classification techniques: an agricultural study

: **M. Natarajan¹ and Shambu Kallollikar²**

¹Centre for Climate Change, Periyar Maniammai University
²IAS, Principal Secretary, Environment and Forest and Pollution Control Board, Chennai

Biofuels impact on the water and food securities

: **Rohit Kumar¹ and Benidhar Deshmukh²**

¹School of Sciences, Indira Gandhi National Open University, New Delhi
²School of Sciences, Indira Gandhi National Open University, New Delhi

Use of google earth engine in rusle based soil loss estimation in Parbati river basin

: **Poompavai V¹, Manjula VB¹, Nagajothi K¹, Ganesha Raj K¹ Prashnat Kumar B², Chinnaraja Naidu²**

1. Regional Remote Sensing Centre-South, NRSC, ISRO, Bengaluru
2. Geographical Indications Registry

Geospatial Database of Geographical Indicators of India

: **Pawan Kumar Thakur^{1*}, Jagdish Chandra Kuniyal², Renu Lata¹ and B. D. Bharath³**

¹G. B. Pant National Institute of Himalayan Environmental & Sustainable Development, Himachal Regional Centre, Mohal-Kullu
²G.B. Pant National Institute of Himalayan Environmental & Sustainable Development, Kosi-Katarmal, Almora
³National Remote Sensing Centre, Hyderabad, Andhra Pradesh, India

Estimation of land surface temperature using landsat 7 (etm+) and landsat 8 (oli) thermal infrared sensor, over delhi city, india

Concurrent Poster Session

Earth System Science for Resilience and Disaster Risk Reduction

January 06, 2020

Earth Sciences-II

02:00 – 06:00 PM

Venue : Cluster II- College of Agriculture, South Block : Hall 20

Geoscience Education, Sustainable Development and Future Earth

Invited Lecture/ Oral Presentation

Invited Lecture/ Oral Presentation	:	Ajoy Saha^{1*}, Sibina Mol S.¹, Deepa Sudheesan², V. R. Suresh³, S. K. Nag³, T. T. Paul², R. Palaniswamy², and B. K.Das ¹ Bangalore Research Centre of ICAR-Central Inland Fisheries Research Institute, Bangalore ² Kochi Research Station of ICAR-Central Inland Fisheries Research Institute, Kochi ³ ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata <i>Geo-chemistry and nutrient concentrations of the pampa river sediment during kerala flood of 2018</i>
	:	Ramachandra TV^{1,2}, Karthik Naik¹, Bharath S¹ and Vinay S¹ ¹ Energy and Wetlands Research Group, TE 15, CES, Indian Institute of Science ² Centre for Sustainable Studies (astra), Indian Institute of Science, Bengaluru ³ Department of Civil Engineering, MAHE, Manipal, Udupi, Karnataka <i>Assessment of landscape dynamics in Belgaum district</i>
	:	Sushmitha Baskar¹ and Ramanathan Baskar² ¹ Environmental Studies, School of Interdisciplinary and Transdisciplinary studies, Indira Gandhi National Open University (IGNOU), New Delhi – 110 068 ² Department of Environmental Science and Engineering, Guru Jambheshwar University of Science and Technology, Hisar- 125 001, Haryana <i>Evidences of biologically influenced Sspeleothems in some Indian Caves in Jaintia and Garo hills, Meghalaya</i>
	:	Rukaiya Kausher and Anand Kumar Sinha <i>Civil and Environmental Engineering, Birla Institute of Technology, Mesra, Ranchi</i> <i>The significance of groundwater flow modelling in the mining areas using mudflow.</i>
	:	Ramachandra TV^{1, 2*}, Vinayaka Bhatta G^{1, 3}, Vinay S¹, Bharath S¹ ¹ Energy and Wetlands Research Group, CES TE15, Indian Institute of Science <i>Land use dynamics in mysore, the cultural capital of karnataka</i>

	<p>N. Chendrayudu Department of Geography, S.V. University, Tirupati, Andhra Pradesh</p> <p><i>Geospatial technology education for a sustainable planet</i></p>
	<p>Sucheta Yadav¹, Sudhir Kumar Bansal² and Sunil Kumar³ ¹Department of Geography, Pt. N.R.S. Govt. College, Rohtak ²Department of Geography, M.D. University, Rohtak ³Department of Environmental Sciences, M.D. University, Rohtak</p> <p><i>Correlation between level of water fluoride and fluorosis: A case study of Mahendergarh district, Haryana- India</i></p>
Invited Lectures/ Oral Presentation	
	<p>: L. Romendro Singh and Ch. Mangi Khuman Department of Geology, Nagaland University, Kohima</p> <p><i>Petrographic and geo-chemical study of podiform chromite from parts of the Manipur ophiolite belt, northeast India and their implications</i></p>
	<p>: Sanjeev K Sahu, Manisha Bhor, Moumita Pal and Basanta K Das ICAR-Central Inland Fisheries Research Institute, Monirampore, Barrackpore, Kolkata</p> <p><i>An assessment of inland fishery resources and fish production in Punjab in the light of physical conditions and rainfall</i></p>
	<p>: Snehamoy Pramanik Department of Applied Mathematics, Indian Institute of Technology (Indian School of Mines) Dhanbad</p> <p><i>Effect of viscosity and anisotropy on propagation of rayleigh surface wave</i></p>
	<p>: Thingujam Dolendro¹ and Arun Kumar² ¹Geoconsult India ²Northeast Frontier Railway</p> <p><i>NATM technology in tupul-imphal section of jiribam-tupul-imphal railway line in manipur, India</i></p>
	<p>: Ramachandra TV^{1,2*}, Vinayaka Bhatta G^{1,3}, Vinay S¹, Bharath S¹ ¹Energy and Wetlands Research Group, CES TE15, Indian Institute of Science ²Centre for Sustainable Studies (astra), Indian Institute of Science, Bengaluru ³Department of Civil Engineering, MAHE, Manipal</p> <p><i>Land use dynamics in Mysore, the cultural capital of Karnataka</i></p>

	<p>: S. Saha , A. Chattopadhyay, A.K. Singh Indian Institute of Technology (ISM), Dhanbad</p> <p><i>Influence of stress free base on propagation of rayleigh type wave in voigt-type viscoelastic layer</i></p>
	<p>: Sucheta Das and Anupam Ghosh Department of Geological Sciences, Jadavpur University, Kolkata -700032</p> <p><i>The study of recent benthic foraminifera in the chilika lake, Odisha</i></p>
<p>Concurrent Poster Session – II</p> <p>Geoscience Education, Sustainable Development and Future Earth</p>	

January 07, 2020

14:00 – 15:00		
Venue		Cluster II- Seminar Hall (Agronomy Old) Hall 19
14.00 – 15.00	Invited Lectures/ Oral Presentations	
15 Minutes each		<p>Venkatesh R., Abdul Rahaman S., Thilagaraj P. Department of Geography, Bharathidasan University, Tiruchirappalli</p> <p><i>Environmental vulnerability assessment in Pombar watershed, Ponnaiyar basin: A sustainable management of eco-environment</i></p> <p>Janardan Bhagat Dean of Social Science, P.G. Dept. of Geography, V.B.U. Hazaribag</p> <p><i>Agriculture development and its problem of tribal region of Jharkhand</i></p> <p>S.S. Hangaragi Department. of Geography, SRN arts and MBS Commerce College, Bagalkot-587101, Karnataka State</p> <p><i>Need to prevent the land degradation for sustainable development of agriculture sector : A case study of Karnataka state</i></p> <p>Soumik Das , Shishir Gupta, Rachaita Dutta Department of Maths and Computing, IIT(ISM), Dhanbad</p> <p><i>Propagation of SH wave in a corrugated elastic medium with void pores: Case wise analysis</i></p>
General Discussion and Recommendations		