

<i>SECTION</i>		<b>AGRICULTURE AND FORESTRY SCIENCES</b>
<b>Sectional President</b>		<b>Dr. U. K. Behera, Dean</b> , College of Agriculture (Central Agricultural University, Imphal) Kyrdemkulai, Meghalaya
<b>Sectional Secretary</b>		<b>Dr. H. S. Shivaram</b> , Professor of Agronomy & AgroMeteorology, UAS, GKVK, Bengaluru
<b>Sectional Recorder</b>		<b>Dr. (Mrs.) Mausumi Ray Chaudhury</b> ICAR-Indian Institute of Water Management, Bhubaneswar-751023
<b>January 04, 2020</b>		
<b>14.00 – 17.00</b>		
<b>Venue</b>	:	<b>UAS, Bengaluru</b>
<b>Presidential Address</b>	:	<b>U. K. Behera</b> , CoA (CAU-I), Kyrdemkulai, Meghalaya  <i>Integrated Agriculture and Rural Bio-entrepreneurship: a road map for India</i>
<b>Platinum Jubilee Lecture</b>	:	<b>Dillip Swain</b> , Professor, Agricultural and Food Engineering Department, IIT, Kharagpur-721302, India on  <i>Advances in agricultural management practices for mitigation and adaptation to climate change</i>
<b>Prof. Sushil Kumar Mukherjee Commemoration Lecture</b>	:	<b>Suresh Kumar</b> , Principal Scientist & Principal Investigator, Division of Biochemistry, ICAR-Indian Agricultural Research Institute, Pusa Campus, New Delhi-110 012.  <i>One Health Perspective of Food Security: Epigenetic interventions</i>
<b>Pran Vohra Award Lecture</b>	:	<b>Vignesh Muthusamy</b> , Scientist, Division of Genetics, ICAR-Indian Agricultural Research Institute (IARI), Pusa Campus, New Delhi-110 012.  <i>Development of Micronutrient rich- and Specialty- Maize Hybrids through Integrated Conventional and Molecular Breeding Approaches</i>
<b>ISCA Young Scientist Award Presentations</b>	:	<b>Hema Baliwada</b> ICAR- Central Tobacco Research Institute, Rajahmundry, Pin : 533 105.  <b>Jitendra Kumar</b> ICAR-Vivekananda Parvatiya Krishi Anusandhan Sansthan, Almora, Uttarakhand – 263 601.

	<p><b>Ayyagari V.V. Koundinya</b> Division of Crop Improvement, ICAR- Central Tuber Thiruvananthapuram, Kerala – 695 017.</p> <p><b>Amit Kumar</b> ICAR-National Organic Farming Research Institute, Tadong, Gangtok, Sikkim- 737 102</p> <p><b>Konsam Sarika</b> Plant Breeding Section, ICAR RC NEHR Manipur Centre, Lamphelpat – 795 004, Manipur.</p> <p><b>Rashmi R.</b> ICAR-Krishi Vigyan Kendra (DK), Kankanady, Mangalore, Karnataka – 575 002.</p>
	<p>United States India Educational Foundation (USIEF) presentation on Fullbright-Nehru and fullbright Kalam Fellowship <b>S. Lalitha Nagesvari</b>, Program Manager, USIEF, Fullbright Commission in India</p>
<b>SECTIONAL COMMITTEE ELECTION</b>	
<b>Concurrent Poster Session –I</b>	
<b>Poster presentation for abstracts A 01-A-26, B 01-B 15, C 01-C 13 and D 01-D 25</b>	

<b>January 05, 2020</b>	
Venue	UAS, Bengaluru
<b>14.00 – 17.30</b>	
<b>Symposium: Integrated Agriculture and Climate Resilience</b>	
<b>Invited Lectures</b>	<p><b>H. Pathak</b> ICAR-National Rice Research Institute Cuttack, Odisha</p> <p><i>Ecosystem Services for Enhancing Productivity and Profitability of Agriculture</i></p>
	<p><b>Arabinda K. Padhee</b> Director, ICRISAT, New Delhi</p> <p><i>Agri Food Policy in India under Climate Change Scenario</i></p>
	<p><b>Ajay Parida</b> Institute of Life Sciences, Bhubaneswar</p> <p><i>Food, Health and Nutrition Disconnect</i></p>
	<p><b>B. Gangaiah</b> ICAR-Central Island Agricultural Research Institute (CIARI), Port Blair, Andaman &amp; Nicobar Islands</p> <p><i>Artisanal fishing mixed farming systems of islands for sustainable livelihoods</i></p>
	<p><b>A.K. Nayak</b> Head Crop Production Division, ICAR-National Rice Research Institute Cuttack-753006 Odisha, India</p> <p><i>Carbon and water footprint of major crops in India</i></p>
	<p><b>S.S. Singh</b> ICAR-Agricultural Technology Application Research Institute (ATARI), Kolkata</p> <p><i>Agricultural entrepreneurship in rural Eastern India</i></p>
	<p><b>Sanjay, M.T.</b> AICRP on IFS, UAS, Hebbal, Bengaluru-560 024</p> <p><i>Integrated farming systems modules for improving profitability and livelihood of small and marginal farmers of Chikkaballapura district, Karnataka</i></p>
	<p><b>Chandrashekara C. P.</b> Professor of Agronomy, College of Agriculture, University of Agricultural Sciences, Dharwad 580005, Karnataka India</p>

	<i>Zero Budget Natural Farming (ZBNF) for Agriculture and rural development</i>
	<b>Ram Singh</b> School Of Social Sciences, College Of Post Graduate Studies, CAU (Imphal), Umiam, Meghalaya  <i>Organic farming: an option for sustainable farm production in NEHR</i>
	<b>Vipin Mishra</b> Centre Of Science & Society, University Of Allahabad, Allahabad-211002. <i>Significance of ornamental fish farming for sustainable rural entrepreneurship</i>
	<b>Krishnendu Acharya</b>  Molecular and Applied Mycology and Plant Pathology Laboratory, Centre of Advanced Study, Department of Botany, University of Calcutta, 35, Ballygunge Circular Road, Kolkata- 700019, West Bengal, India  <i>A journey from lab to land in organic farming</i>
<b>Symposium Invited Lectures/ Oral Presentations</b>	
<b>Symposium: Biodiversity Conservation and Ecotourism</b>	
	<b>R.S.C. Jayaraj</b> Director, Rain Forest Research Institute, Jorhat  <i>Bamboo and Rural Development</i>
	<b>Arun Kumar Mishra</b> , Divisional Forest Officer, Sundargarh Forest Division, Sundargarh, Odisha  <i>Ecotourism &amp; rural entrepreneurship: Odisha model of ecotourism-community managed nature tourism</i>
	<b>Ravikanth G Ashoka</b> Trust for Research in Ecology and the Environment (ATREE), Royal Enclave, Srirampura, Jakkur Post, Bengaluru – 560064  <i>Harvesting of non-timber forest products: genetic impacts, ecological costs and livelihood gains</i>
	<b>Deepak Kumar</b> Department of Forestry, Forest Research Institute, Dehradun, Uttarakhand-248006  <i>Importance of abiotic stresses and their mitigation in forestry tree species</i>
	<b>Rezina Ahmed</b>

	<p>Associate Professor Department of Zoology, Cotton University</p> <p><i>Prospects of ecotourism through utilization of biodiversity of Deepor Beel, Ramsarsite Assam. India</i></p>
	<p><b>Sanjeev Kumar</b> <b>Regional Chief Conservator of Forests, Hazaribagh, Jharkhand</b></p> <p><i>Mapping of major frameworks of NTFP based livelihood options in Jharkhand: a case study from Chotanagpur</i></p>
	<p><b>Fatima Sultana</b> Associate Professor, Department of Zoology, J. D. B. Govt. Girls College, University of Kota, Kota, Rajasthan.</p> <p><i>Re-introduction of Tigers in Mukandara Hills Tiger Reserve, Kota, Rajasthan</i></p>
	<p><b>N. Barathi</b> Director, Growmore Biotech Ltd., TN, India</p> <p><i>Bamboo as Energy Plantation for Renewable Energy Generation</i></p>
	<p><b>AK Mishra</b> IRRI, Bhubaneswar</p> <p><i>Carbon sequestration dynamics in poplar-based Agroforestry systems</i></p>
	<p><b>Annapurna Dhal</b> Department of Zoology, B. B. College, Baiganbadia-757105, Mayurbhanj, Odisha</p> <p><i>Soil profile of Hadagarh wildlife sanctuary, Keonjhar, Odisha</i></p>
	<p><b>A.K. Handa</b> ICAR- Central Agroforestry Research Institute, Jhansi) – India 284 003</p> <p><i>Agroforestry options for ensuring livelihood security in different regions of India</i></p>
<p><b>BEST POSTER AWARD PRESENTATION</b></p>	
<p><b>Concurrent Poster Session –II</b> <b>Poster presentation from E 01-E173</b></p>	

January 06, 2020		
14:00 – 17:00		
Venue		<b>UAS, Bengaluru</b>
14.00 – 17.00		
Symposium: Integrated Agriculture and Bio-entrepreneurship		
Invited Lectures		
		<p><b>Sujay Rakshit</b> ICAR-Indian Institute Of Maize Research, Ludhiana 141004</p> <p><i>Silent revolution in maize - challenges ahead</i></p>
		<p><b>Venuprasad Ramaiah</b> International Rice Research Institute, Philippines</p> <p><i>Conserving and exploiting rice biodiversity for rural prosperity – role of international gene bank</i></p>
		<p>Ashok K. Patra Director, ICAR-Indian Institute of Soil Science Nabibagh, Berasia Road, Bhopal-462038 (M.P)</p> <p><i>Tapping soil biodiversity for sustainable agriculture and environment</i></p>
		<p><b>PK Ghosh</b> National Coordinator, National Agricultural Higher Education Project, ICAR, New Delhi</p> <p><i>Livestock based farming systems for sustaining livelihood of rural India</i></p>
		<p><b>P D Kamala Jayanthi</b> Division of Entomology and Nematology, ICAR-Indian Institute of Horticultural Research Hessaraghatta Lake post, Bangalore-560089. Karnataka, India</p> <p><i>Chemical Ecology in IPM and Rural Development</i></p>
		<p><b>Sheetal Sharma</b> International Rice Research Institute, New Delhi, India</p> <p><i>Translating science into ICT based tools for scaling out innovative technologies</i></p>
		<p><b>Neelam Patel</b> In-charge &amp; Principal Scientist, Centre for Protected Cultivation Technology, ICAR-IARI, New Delhi-110012</p> <p><i>Entrepreneurship development and economic improvement of farmers through protected cultivation technology</i></p>

		<p><b>P. K. Sahoo</b> Principal Scientist, Division of Agricultural Engineering, ICAR-IARI, New Delhi-12</p> <p><i>Rural entrepreneurship through custom hiring of agricultural machines</i></p>
		<p><b>Kuldeep Singh,</b> AMITY Center for Soil Sciences, Amity University, Noida, U.P. <i>Zinc delivery to wheat crop through foliar application of zinc oxide nano particles</i></p>
		<p><b>P. K. Saha</b> Former Professor, Division of Plant Biology, Bose Institute, Acharya Prafulla Chandra Roy Road, Kolkata 700009, West Bengal., <i>Testa ultra structures, viability and waer uptake paterns interrelated to seed germination</i></p>
<p><b>15.00 – 17.30 : Concurrent Poster Session –III</b> <b>Poster presentation from F 01-F73 and G01-G15</b></p>		

<b>January 07, 2020</b>		
<b>14.00 – 15.00</b>		
<b>Symposium:</b>		<b>Integrated Agriculture and Rural Bio-entrepreneurship</b>
<b>Venue</b>		<b>UAS, Bengaluru</b>
Invited Lectures/ Oral Presentations		
		<p><b>Manjunath K Naik, Vice Chancellor</b> UAHS, Shimoga <i>Emerging issues in agriculture with special reference to Bioentrepreneurship in achieving sustainable goals</i></p>
		<p><b>M.J.Chandre Gowda</b> Director, ICAR-ATARI, Bengaluru <i>Agrarian crisis: the role of extension as an enabling system of informed decision making by farmers</i></p>
		<p><b>Kausik Pradhan</b> Associate Professor and Head, Department of Agricultural Extension, Uttarbanga Krishi Viswa Vidyalaya, Pundibari, Coochbehar <i>Revealing the challenges associated with the access and utilization of agricultural information sources for rural development</i></p>

	<p><b>Chandrakala, M</b> National Bureau of Soil Survey and Land Use Planning, Hebbal, Bangalore-560 024, Karnataka. India</p> <p><i>Inventorization of land resources in South Telangana Plateau (Rayalseema) and Eastern Ghat, hot, dry semi-arid eco-sub region, India using GIS and remote sensing</i></p>
	<p><b>H. M. Vinaya Kumar</b> Department of Agricultural Extension and Communication, Anand Agricultural University, Anand, Anand, 388110, India</p> <p><i>Predictive factors to avoid farming as a livelihood</i></p>
	<p><b>Ranjana Mishra</b> HOD History, SMDSMC, Affiliated to SNTD Women's University, Mumbai</p> <p><i>Surapalavriksh ayurvedav a treatise on agricultural technologies: resolution to present rural agricultural hurdles</i></p>
	<p><b>S C Tripathi</b> ICAR-IIWBR, Karnal, Haryana-132 001</p> <p><i>Intercropping of pulses with maize for higher productivity and profitability for small and marginal farmers</i></p>
	<p><b>V. S. Susha</b> Agronomic Research Station, Kerala Agricultural University, Chalakudy, Kerala</p> <p><i>Tank-mix and sequential herbicide applications on weeds, non-target toxicity and herbicide residue in soil and defence mechanism of maize (Zea Mays L.) In the North-Western Indo-Gangetic plains</i></p>
	<p><b>T.J. Purakayastha</b> Division of Soil Science &amp; Agricultural Chemistry, ICAR-Indian Agricultural Research Institute, New Delhi, 110 012, India</p> <p><i>Development of smart fertilizers for sustainable agriculture and environment</i></p>
	<p><b>Devaraja, K</b> All India Co-Ordinated Research Project for Dry Land Agriculture, Gandhi Krishi Vigyan Kendra, Bangalore-560 065, Karnataka, India</p> <p><i>Impact of subsoiler on in-situ moisture conservation in finger millet and groundnut based intercropping system</i></p>
	<p><b>Anil Kumar Chauhan</b> Centre of Food Science And Technology Institute of Agricultural Sciences Banaras Hindu University, Varanasi-221005(India)</p>



		<i>Utilization of Giloy (Tinospora Cordifolia) stem power to enhance the functional properties of cookies</i>
		<b>Yashaswini N. P</b> , Assistant Professor of Agronomy Directorate of Extension, University of Horticultural Sciences, Bagalkot  <i>Influence of nitrogen management on growth and yield of tulsi (Ocimum Sanctum L.) In Karnataka</i>
		<b>Nibedita Das</b> Assistant Professor Department of Botany, University of Science and Technology, Meghalaya  <i>Ethno botanical uses of Clerodendrum L. in North East India</i>
		<b>Dipak Ranjan Biswas</b> ICAR-Indian Agricultural Research Institute, New Delhi, India  <i>Organic acid loaded nano clay polymer composite on solubilization of rock phosphates: potentialities and opportunities as alternate p-fertilizer</i>
		<b>V. Karunakaran</b> Agricultural College and Research Institute(TNAU), Eachangkottai, Thanjavur, Tamil Nadu-614902  <i>Tillage and Crop Establishment Techniques, and Residue Management Practices On The Performance of Soybean (Glycine max)—Wheat (Triticum aestivum) Cropping System</i>
		<b>Rojeet Thangjam</b> College of Agriculture, Central Agricultural University, Kyrdemkulai - 793105, Meghalaya, India  <i>Insect Pest Complex and Their Natural Enemies on Upland Rice in Kyrdemkulai, Meghalaya</i>
		<b>Somanath Nayak</b> Division of Agronomy, ICAR-Indian Agricultural Research Institute, New Delhi  <i>Productivity and profitability of soybean as influenced by tillage and phosphorous management practices under conservation agriculture</i>
		<b>Samborlang K. Wanniang</b> College of Agriculture, Central Agricultural University, Kyrdemkulai- 793105, Meghalaya  <i>Evaluation of upland rice varieties in the mid hills of Meghalaya</i>
		<b>K. Jeevan Rao</b> EC member, Telangana State Academy of Sciences. Villa Onyx 12A, Kismatpur, Rajendranagar, Hyderabad – 500 086, Telangana State,

		India <i>Irrigated agriculture and climate change</i>
		<b>Sanjay-Swami</b> School of Natural Resource Management, College of Post Graduate Studies in Agricultural Sciences, Central Agricultural University, Umiam-793103, Meghalaya  <i>Bio-char potential for increasing tomato (<i>lycopersicon esculentum</i> mill.) Productivity under acidic soil conditions of Meghalaya and improving soil acidity indices</i>
		<b>N. Subash</b> ICAR-Indian Institute of Farming Systems Research, Modipuram-250 110, Meerut, Uttarpradesh  <i>Methane and nitrous oxide emissions from rice under different crop establishment and source of nitrogen in irrigated Indo-Gangetic plains of India</i>
<b>General Discussion and Recommendations</b>		

SECTION		ANIMAL, VETERINARY AND FISHERY SCIENCES
<b>Sectional President</b>		<b>Prof. Prakash Chandra Joshi</b> BOYASCAST Fellow (USA), Former Head, Dept. of Zoology and Env. Science, Dean, Green Audit, Deputy Controller of Examinations Gurukula Kangri Vishwavidyalaya, Haridwar-249404
<b>Sectional Secretary</b>		<b>Dr. B. L. Chidananda</b> Professor and Head Dept. of Animal Science, College of Agriculture UAS, GKVK, Bangalore-560065
<b>Sectional Recorder</b>		<b>Dr. Randhir Kumar Singh</b> Associate Professor, Dept. of Zoology, T. B. D. S. Janta College, Akuna, Goh, Bihar
<b>January 04, 2020</b>		
14:00 – 17:00		
Venue	:	
<b>Presidential Address</b>	:	<b>Prakash Chandra Joshi</b> BOYASCAST Fellow (USA), Former Head, Dept. of Zoology and Env. Science, Dean, Green Audit, Deputy Controller of Examinations Gurukula Kangri Vishwavidyalaya, Haridwar-249404  <i>Sustaining livelihood in high altitude rural areas: an entomological perspective with special reference to changing climatic conditions</i>
<b>Platinum Jubilee Lecture</b>	:	<b>Kamal Jaiswal</b> Dept. of Animal Sciences, Baba Bhimrao Ambedkar Central University, Lucknow  <i>Biomimetics : Inspiration from Nature for Human Welfare</i>
<b>Young Scientist Award Presentations</b>	:	<b>Nisha Rana</b> Department of Zoology, R.G.P.G. College, Meerut – 250 001.  <b>Shrstha Sinha</b> S.D.S. in Neuro Science, Jiwaji University, Gwalior – 474 001,  <b>Pratima Vishwakarma</b> Bacteriology and Natural Pesticide Laboratory, Department of Botany, DDU Gorakhpur, University, Gorakhpur – 273 009, U.P

		<p><b>Sonal Saluja</b>  Department of Zoology, Kurukshetra University, Kurukshetra – 136 119,</p>
<b>Invited Lectures</b>	:	<p><b>Gundu H. R. Rao</b>  Emeritus Professor, University of Minnesota</p> <p><i>Designer Foods, Dietary Supplements, for Better Cardiovascular Health.</i></p> <p><b>Hamida Khanum,</b>  Department of Zoology, University of Dhaka, Dhaka-1000, Bangladesh</p>
<p><b>Award Lectures:</b></p> <p><b>Prof. G. K. Manna Award Lecture</b></p> <p><b>Dr.(Mrs.) Gouri Ganguly Memorial Award for Young Scientist</b></p>	:	<p><b>Yasir Hasan Siddique,</b>  Department of Zoology, Faculty of Life Sciences, Aligarh Muslim University, Aligarh-202 002 (U.P.).</p> <p><i>Effect of polyherbal drug on the transgenic Drosophila model of Parkinson's disease</i></p> <p><b>Subrota Hati</b>  Dairy Microbiology Department, Anand Agricultural University, Anand-388110, Gujarat</p> <p><i>Exploring the Functionality of Food Derived Bioactive peptides from different milk species</i></p>
<b>SECTIONAL COMMITTEE ELECTION</b>		

January 05, 2020

14:00 – 17:30

Venue

14.00 – 16.00

Symposium

Invited Lectures

**Neelima Gupta**

Vice Chancellor, ChatrapatiSahujiMaharaj Kanpur UniversityKanpur

**B. N. Pandey**

Former Head, Dept. of Zoology, Magdh University, Bodh Gaya

**B. D. Joshi**

Former Head and Dean, BSR Senior Faculty Fellow  
Siva ParvatiBhawan, GyanLok, Kankhal

**P. Nagraja Rao**

Dept. of Zoology, University Collrge of ScienceOsmania University,  
Hyderabad-500007 (A.P.)

**G. K. Kulkarni**

Former Head, Dept. of Zoology, Baba SahebBhimRaoAmbedkar  
University, Aurangabad

**M, P. Yadav**

Ex Director, IVRI, Ex VC SVBP University of Agriculture &  
Technology, 365 Sector 45, Gurgaon

**Rajendra Kumar**

Ex DG UPCAR, Division of Genetics, ICAR-IARI  
New Delhi 110012.

**Gopal Krishna,**

Director, Central Institute of Fisheries Education (CIFE)  
Yari Road, Pin, Off, PanchMarg, Versova, Andheri West,  
Mumbai, Maharashtra 400061

**RishendraVerma**

ICAR Emeritus Scientist, Bacteriology & Mycology, IVRI. Izatnagar

**P. K. Saikia**

Dept. of Zoology, Guwahati University, Guwahati

**Prakash Nautiyal**

Dept. Of Zoology, HNB Garhwal Central University, Srinagar,  
Garhwal

<b>16.00 – 17.45</b>		<b>Invited Lectures/ Oral Presentations</b>	
		<b>Concurrent Oral Session –I</b>	
		<p><b>Satyavelu Reddy</b> Former Registrar and Retd. Professor, Dept. of Zoology, S.V. University, Tirupathi,</p> <p><b>W. Rajendra</b> Former VC and Professor, Dept. of Zoology, S.V. University, Tirupathi,</p> <p><b>Bhaskar Matcha</b> Rector, SV University Dept. of Zoology, S.V. University, Tirupathi,</p> <p><b>Neera Kapoor</b> Dept. of Zoology, Indira Gandhi National Open University New Delhi</p>	
<b>BEST POSTER AWARD PRESENTATION</b>			
<b>15.00 – 17.30</b>		<b>Concurrent Poster Session –I</b>	

January 06, 2020

January 06, 2020		
14:00 – 17:30		
Venue		<b>Invited Lectures/ Concurrent Oral Session II</b>
14.00 – 16.00	<b>Symposium</b>	
<b>Invited Lectures/ Concurrent Oral Session II</b>		<p><b>Jagbier Singh Kirti</b> Dept. of Zoology, Punjabi University, Patiala</p> <p><b>S. P. Trivedi</b> Environment Toxicology and Bioremediation Lab Dept. of Zoology, University of Lucknow Lucknow- 226007</p> <p><b>M. G. Raghunathan,</b> Associate Professor and Head, Dept. of Advanced Zoology and Biotechnology Guru Nanak College, Velachery, Chennai</p> <p><b>A. K. Karnatak</b> Head, Dept. of Entomology, College of Agriculture Sciences, G B Pant University of Agriculture and Technology, Pantnagar</p> <p><b>Kuldeep Krishan Sharma</b> Former Dean and Head, Dept. of Zoology, University of Jammu, Jammu-180006</p> <p><b>D. K. Gupta</b> Head, Dept. of Zoology, Bareilly College, Bareilly</p> <p><b>D. P. Uniyal</b> Senior Scientific Officer Uttarakhand Council of Science and Technology VigyanDham, Jhajra, Dehradun</p> <p><b>Fayaz Ahmad</b> Dept. of Zoology, University of Kashmir, Srinagar, Kashmir</p> <p><b>Ram Krishan Negi</b> Fish Molecular Biology Laboratory No.18, Department of Zoology, University of Delhi, Delhi</p> <p><b>Seema Langer</b> Dept. of Zoology, Jammu University, Jammu</p>
16.00 – 17.45	<b>Invited Lectures/ Oral Presentations</b>	
		<p><b>K.D. Joshi</b> ICAR-National Bureau of Fish Genetic Resources, Canal Ring Road, P.O. Dilkusha, Lucknow, Uttar Pradesh, India</p>

	<p><b>P. K. Pandey</b> Dean, College of Fisheries, Central Agriculture University, Lembucherra, Tripura</p> <p><b>Satish Mokashe</b> Dept. of Zoology, Dr. Baba Saheb Ambedkar Marathwada University, Aurangabad</p> <p><b>Ramchandra Mohan M</b> Dept. of Zoology, Bangalore University Bangalore</p> <p><b>D. Sukumaran</b> Scientist F and Head, Vector Management Division, Defence Research and Development Establishment, Gwalior</p> <p><b>A Sangaran</b> Dept. Of Veterinary Parasitology, Madaras Veterinary College, Tamil Nadu Veterinary &amp; Animal Sciences University, Vepey, Chennai-</p> <p><b>Yahya Bakhtiyar</b> Dept. of Zoology, University of Kashmir, Srinagar</p> <p><b>B. B. Waykar</b> Dept. of Zoology, Dr. Baba Saheb Ambedkar Marathwada University, Aurangabad</p>
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15.00 – 17.30

Concurrent Poster Session –II

January 07, 2020		
14:00 – 15:00		
Venue		
14.00 – 15.00	Invited Lectures/ Oral Presentations/ Concurrent Oral Session –III	
	<p><b>Dinesh Bhatt</b> Head, Dept. of Zoology and Environmental Sciences Gurukula Kangri University, Haridwar-249404</p> <p><b>Nirupma Agrawal</b> Former Head, Dept. of Zoology, University of Lucknow, Lucknow</p> <p><b>Manoj Kumar</b> Department of Zoology, University of Lucknow, Lucknow</p> <p><b>Abha Trivedi</b></p>	



		Department of Animal Sciences, M. J. P. Rohilkhand University, Bareilly-243006
<b>General Discussion and Recommendations</b>		

<b>SECTION</b>	:	<b>ANTHROPOLOGICAL AND BEHAVIOURAL SCIENCES (INCLUDING ARCHAEOLOGY AND PSYCHOLOGY &amp; EDUCATIONAL SCIENCE AND MILITARY SCIENCES)</b>
<b>Sectional President</b>	:	<b>Prof. (Dr) Suresh M Makvana</b> Professor & Head, Department of Psychology, S P University Vallabh Vidhyanagar -388120, Gujarat (INDIA),
<b>Sectional Secretary</b>	:	<b>Dr. Appaji Gowada.</b> Assistant Professor, Karnataka state, Open University, (KSOU) Myktha, Gangothri, Mysore-570006.
<b>Sectional Recorder</b>	:	<b>Dr. Rajeshree Bhargava</b> , Founder Director And Consulting Psychologist, 'Samadhan Kendrta' Maruti Tower Sanjay palace commercial complex, Agra-282002

**January 04, 2020**

**14:00 – 17:00**

<b>Venue</b>	:	<b>Main Room</b>
<b>Presidential Address</b>	:	<b>Suresh M. Makvana</b> , Department of Psychology, S P University Vallabh Vidhyanagar  <i>A role &amp; behavioral sciences in rural development: past, present and future</i>
<b>Platinum Jubilee Lecture</b>	:	<b>Braj Bhushan</b> , Professor of Psychology, Sheri Deva Raj Chair, Department of Humanities and Social Sciences, Indian Institute of Technology Kanpur, Kanpur  <i>Facial Expressions: From Morphology to Recognition In The Brain</i>
<b>Young Scientist Award Presentations</b>	:	<b>Jani Sharadbhai Odhavjibhai</b> Department of Psychology, Sardar Patel University, Vallabh Vidhyanagar, Dist : Anand, Gujarat,.  <b>Vikaskumar Kantibhai Rohit</b> Department of Psychology, Sardar Patel University, Vallabh Vidhyanagar, Dist : Anand, Gujarat,  <b>Ankit Patel</b> Department of Psychology, Sardar Patel University, Vallabh Vidyanagar, Dist : Anand, Gujarat,  <b>Tarun Mishra</b>

	<p>Cognitive Science Laboratory, Department of Psychology, B.H.U., Naranasi – 221 005.</p>
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	<p><b>Joyeeta Thakur</b> Department of Anthropology, University of Calcutta, Kolkata.</p>
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<p><b>SECTIONAL COMMITTEE ELECTION</b></p>
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January 05, 2020

14:00 – 17:45

Venue

:

Main Room

14.00 – 16.00 : Symposium Role of behavioral science in (sustainable) rural development Role of behavioral science in rural development in future

Invited Lectures

:

**Andreas M. Krafft**

*Hope For A Good Life – Comparing The Indian And The European Context*

:

**Asoke Kumar Saha**

*A Socio- Psychological Behavioural Of Adolescent Heath: Issue And Challenges*

:

**B. A. Parikh**

*Role Of Behavioral Sciences In Development Of Rural Behavior-Social Change*

:

**N.K. Saksena**

*Role Of Behaviour Sciences In Rural Development: And Interdisciplinary Approach*

:

**Rakesh K. Srivastava**

*Psychological Science In The Context Of Rural Development*

:

**Tarni Jee**

*Behavioural Sciences For Rural Development*

:

**Ashok Kumar Mukherjee**

*Impact Of Emotional Intelligence to Tide Over Vuca Wave.*

:

**Manish Rai**

*A Less Known Ancient Buddhist Stupa At Elephanta Island*

:

**Shubhash Sharma**

*Family Adjustment Among Mothers Of Disabled & Normal children*

:

**Maganlal S. Molia**

*Advantages And Disadvantages Of Privatization In Education*

**16.00 – 17.45 Invited Lectures/ Oral Presentations**

Venue	:	Room No. 1
		<b>Abhaya kumar Shrivastsav</b> <i>Asia Africa Growth Corridor (AAGC) : A Game Changer</i>
		<b>Renu Kumari. &amp; Rahul Kumar Singh</b> <i>Rural Areas: - Development Through ICT</i>
		<b>Poonam Sharma</b> <i>Empowerment Of Rural Women Through Education</i>
		<b>Inderjeet Kour</b> <i>A Study Of Values In Male And Female Students Of Elementary Schools In Selected Districts Of Jammu Province.</i>
		<b>Dinesh Kumar</b> <i>Need Structure And Personal Traits Influencing Personal Space Amongst Rural Adolescents</i>
		<b>Renu Kumari</b> <i>Tokophobia: Fear Of Childbirth And Pregnancy</i>
		<b>Chhanda Kumari.</b> <i>Impact Of Iron In Pregnant Women</i>
		<b>Samira A. Khalifa, &amp; Suresh M. Makvana</b> <i>A Study Of Fear Of Death Among Diabetes Challengers</i>
		<b>Palak Kansara &amp; Suresh M. Makvana</b> <i>Risk Taking Behavior With Reference To Gender, Area And Types Of School</i>
		<b>Manisha D. Jamod &amp; Pankaj S. Suvera</b> <i>A Study Of Internet Addiction Among Adults</i>

16:00-17:45

Invited Lectures/ Oral Presentations

<b>Venue</b>	:	<b>Room No. 2</b>
	:	<b>Meenal Dhall</b> <i>Health Profile In Rural Parts Of Gujarat: An Anthropological Insight</i>
	:	<b>C.Margabandhu</b> <i>Archaeological Study Of The Coin And Currency System And The Trading Practices Existing During The Early Centuries Of The Christian Era</i>
	:	<b>Ebenezer Joseph, S. Sundar Manoharan, Veena Easvaradoss &amp; David Chandran</b> <i>Impact Of Systematic 2-Year Chess Intervention On The Intelligence Of School Going Children</i>
	:	<b>Manikesh Kumar</b> <i>Effect Of Occupational Stress On Self Concept Of Teachers</i>
	:	<b>Renu Kumai</b> <i>Education And Research</i>
	:	<b>Anu Rani &amp; Dr. Sheo Shankar Singh</b> <i>Self-Perceptions Of The Rural Women Regarding Their Status, Health And Ability To Generate Income In Rural Development Perspective</i>
	:	<b>Rajesh Kumar Tiwari</b> <i>Prolonged Deprivation And Personality Traits Amongst Rural Children</i>
	:	<b>Supriya Chaturvedi</b> <i>A Psychological Approach To Rural Development</i>
	:	<b>Ram Nanndan Prasad Singh</b> <i>Adjustment Of Rural Adolescents In Context Of Intelligence And Emotional Maturity</i>
	:	<b>Sanjay Kumar</b> <i>Sex Role Orientation Influencing Mental Health And Life Satisfaction Amongst Rural Adolescents</i>

16:00-17:45		Invited Lectures/ Oral Presentations
Venue	:	Room No. 3
		<b>Pankaj S. Suvera</b> <i>Psychological well-being: A study of the institutionalized aged</i>
		<b>Nirmal Kumar Singh</b> <i>Need Structure Amongst Rural Youth In Context Of Emotional Intelligence</i>
	:	<b>Iftekhar Hossain</b> <i>Social Support Influencing Need For Achievement And Adjustment Amongst Rural Children</i>
		<b>Ramesh O. Prajapati &amp; S. M. Makvana</b> <i>A Comparative Study Of Psychological Well Being Among Parents Of Mental Retarded And Normal Children</i>
		<b>Kiransinh N. Rajput, Dr. B.S. Parimal &amp; Preeti Surti</b> <i>Perceived Organizational Support For Organizational Creativity And Employee Engagement Among The Employees Of Manufacturing And Educational Sector</i>
		<b>Vikas K. Rohit &amp; Suresh M. Makvana</b> <i>A Role Of Family Planning And Birth Control Attitude reference to Development of Rural And Urban Community</i>
	:	<b>Jitendra Kumar</b> <i>Level Of Deprivation Among Dalits Of Rural Bihar: Needs Of Affirmative Action Programmes For Their Development</i>
		<b>U V Kiran</b> <i>Child Labour In Unorganised Sector- A Multidimensional Analysis</i>
	:	<b>Ramendra Kumar Singh</b> <i>Nutritional Status And Inhabitation Influencing Creativity Amongst Children</i>
	:	<b>Sharad O. Jani &amp; Suresh M. Makvana</b> <i>A Study of Shopping Addiction in Rural And Urban Area</i>
<b>15.00 – 17.30</b>	<b>Concurrent Poster Session –I ( 1 to 70 )</b>	
<b>Venue:</b>		
<b>BEST POSTER AWARD PRESENTATION</b>		

January 06, 2020

14:00 – 17:45

Venue

:

Main Room

14.00 – 16.00 Symposium Role of behavioral science in (sustainable) rural development Role of science in rural development in future behavioral

Invited Lectures

:

**Upinder Dhar**

*Role Of Behavioural Sciences In Rural Development*

:

**S. Jibonkumar Singh**

*Science And Technology For Rural Development Of Future India (Social And Behavioural Scientific Approach)*

:

**Narayanan Annalakshmi**

*Resilience In Socially Marginalized Youth*

:

**Manoj Kumar Singh**

*Cultural Transition In Paleolithic Archaeology*

:

**L.Kullai Reddy**

*Role Of Psychologist In Rural Development*

:

**Sujeet Kumar Dubey**

*Academic Achievement And Adjustment Of Children Of Rural Setting As A Function Of Locus Of Control*

:

**Thoudam Bedita Devi**

*Inter-Generational Variation In Facial Anatomy Of Meitei Males Of Manipur Valley*

**Sanjenbam Yaiphaba Meitei**

*Physical Activity And Adolescent Hypertension Among The Adolescents Of Manipur*

**K Kosana Meitei & Suvam Das Gupta**

*Effect Of An Arm Strength Exercises Session On The Hand Grip Strength Of The Male Wrestlers Of Manipur*

**Ak. Bojen Meitei & S. Jibonkumar Singh**

*Body Composition in Predicting of Influencing Factors in Performance between Elite and Non-Elite Table Tennis Players of North East India*



<b>16.00 – 17.45 Invited Lectures/ Oral Presentations</b>		
<b>Venue</b>	:	<b>Room No. 1</b>
	:	<b>Ajay Kumar &amp; Uday Kumar Singh</b> <i>Deprivation And Need Achievement Influencing Emotional In Intelligence And Creativity Amongst Adolescents Of Rural Setting</i>
	:	<b>Anjana Sarmah</b> <i>Prehistoric Tools From Selbalgre, Garo Hills, Meghalaya (Northeast India): A Typo-Technological Study</i>
	:	<b>Ravi Kumar &amp; Shweta Kumari</b> <i>Effect Of Modernization On Life Satisfaction Of Rurals</i>
	:	<b>Henry Konjengbam &amp; Dr. Sanjenbam Yaiphaba Meitei</b> <i>Association Of Prakriti Body Types With BMI Among The Meiteis Of Manipur, India</i>
	:	<b>Sadia Habib</b> <i>A Correlational Study Of Family Relationship And Emotional Intelligence Among The College Going Girls</i>
	:	<b>Anurag Upadhyay</b> <i>Effect of Internet Addiction on Cognitive Failure</i>
	:	<b>M.Lakshmi Narasimha &amp; Dr.L.K.Reddy</b> <i>Role Of Behavioural Science In Rural Development</i>
	:	<b>K. Roshinibala Devi</b> <i>Human Values : Role Of Family, Society And Educational Institution In Inculcating Value</i>
	:	<b>Awadhkishor Singh</b> <i>The Psychological Perspective On Mental Health And Mental Disability</i>
	:	<b>Dilip Kumar Thakur</b> <i>Nutritional Status Of Children In India : A Critical Study</i>

**16:00-17:45 Invited Lectures/ Oral Presentations**

<b>Venue</b>	:	<b>Room No. 2</b>
	:	<b>Anand Kumar Singh</b>
	:	<i>Effect Of Stees On Metal Health Among Post Graduate Students.</i>
	:	<b>Santa Misra &amp; Sajeev Nair</b>
	:	<i>Thought Process Re-Engineering Updates Mental Wave Length Connectivity : An Exploratory Model</i>
	:	<b>Laishom Indira Devi</b>
	:	<i>Problems Faced By Employed Homemakers To Balance Professional And Domestic Chore In Thoubal District Of Manipur</i>
	:	<b>Gauri Shankar Ram</b>
	:	<i>A Comparative Study Of Political Identification, Political Participation And Religious Affiliation</i>
	:	<b>Jakka Parthasarathy</b>
	:	<i>Anthrapology And Rural Development Looking At The Nilgiri Hills Of Tamil Nadu</i>
	:	<b>K.V.Subba Reddy</b>
	:	<i>Indigenous Rain Forecasting</i>
	:	<b>Abhishakta Ghosh Roy</b>
	:	<i>Anthropology Of Cancer : With Special Reference To Breast Cancer Study In India</i>
	:	<b>Jesty Sunny</b>
	:	<i>Spiritual Intelligence And Value Dimension Among Yonge Adults In Kerala</i>
	:	<b>Babita Gupta</b>
	:	<i>Effects Of Behavior Therapy On Drooling In Low Intellectual Functioning: Aversive Approach</i>
	:	<b>Arman Alam</b>
	:	<i>The Role Of Religious Practices On Economic Development Among Hindus And Muslims In Patna (Bihar</i>

**16:00-17:45 Invited Lectures/ Oral Presentations**

<b>Venue</b>	<b>:</b>	<b>Room No. 3</b>
<b>51</b>	<b>:</b>	<b>Rajeev Sharma</b> <i>'Yoga therapy – the ultimate therapy for Holistic health'.</i>
<b>52</b>	<b>:</b>	<b>Krishna Kumar</b> <i>Tendency Of Disobedience Among Youth In Family</i>
<b>53</b>	<b>:</b>	<b>Miss Ishika Agrawal</b> <i>Kashmir Dispute: Challenges And Prospect</i>
<b>54</b>	<b>:</b>	<b>Subalal Paswan</b> <i>Performance Of The Employment Exchanges In Bihar : A Comparative Study</i>
<b>55</b>	<b>:</b>	<b>Indira Srivastava</b> <i>Anthropological And Behavioural Science Sociology Of Transparency</i>
<b>56</b>	<b>:</b>	<b>S.R.Thrinethra</b> <i>A Study Of Frustration Among Secondary School Teachers In Relation To Administrative Behavior Of School Heads</i>
<b>57</b>	<b>:</b>	<b>Surekha R. Gaikwad</b> <i>Implementation Aspects Of Child Guidance And Nutrition Counseling Center In Purna, Maharashtra</i>
<b>58</b>	<b>:</b>	<b>G. Ponmeni</b> <i>Personality Perspective Of School Teachers</i>
<b>59</b>	<b>:</b>	<b>Soumen acharya</b> <i>The Behavioral Screening Used In Aiims Ctvs And Cardiology Department Questionnaire, The Strengths And Difficulties</i>
<b>15.00 – 16:00</b>	<b>Concurrent Poster Session –I ( 71 to 245 )</b>	

January 07, 2020

14:00 – 15: 00

<b>Venue</b>	:	<b>Main Room</b>
<b>Symposium</b>		<b>Role of behavioral science in (sustainable) rural development Role of behavioral science in rural development in future</b>
<b>Invited Lectures</b>	:	<b>Rashmi Misra</b> <i>Role Of Psychologist In Enhancing Development Of Tribal People In India</i>
	:	<b>Habibullah Ansari</b> <i>Perception of Farmers about Agriculture, Food Production and Climate Change: A Study of Gopalganj District, Bihar</i>
	:	<b>A.Anjum &amp; Dr.Laxmi Rani</b> <i>Adolescents Addiction To Smart Phone And Its Remedies</i>
	:	<b>Gautam Gawali</b> <i>Farmers Suicide: Socio- Economic and Psychological Interventions</i>
	:	<b>Ajeet Jaiswal</b> <i>Evaluation Of Pulmonary Functions In Alternate Fuel Users.</i>
	:	<b>N.Usha Rani</b> <i>The Positive Deviance Approach Intervention In Healthcare – A New Perspective On Communication Strategies In Behavioural Science</i>
	:	<b>Meera Jayaswal</b> <i>Intimate Partners Violence Among Tribal Rural Married Women Of Jharkhand: An Unmet Challenge</i>
	:	<b>Renu Dewan</b> <i>Relationship Between Spiritual Intelligence And Parenting Style among Tribal And Non-Tribal School Students of Ranchi Town in Jharkhand*</i>
	:	<b>Kumar Sanjeev</b> <i>Role Of Gandhian Basic Education Model In The Sustainable Development Of Rural Education</i>
	:	<b>Abha Singh</b> <i>Empowering Rural Women In India- A Psychosocial Perspective</i>
	:	<b>Thokchom Purnimashi Devi</b> <i>Income And Expenditure Patterns Of Non-Salaried Meitei Families Of Thoubal District In Manipur</i>

**Invited Lectures/ Oral Presentations**

**General Discussion and Recommendations**

SECTION		CHEMICAL SCIENCES
<b>Sectional President</b>		<b>Prof Diwan S Rawat</b> , Department of Chemistry, University of Delhi
<b>Sectional Secretary</b>		<b>Prof NB Prakash</b> , Department of Soil Science and Agricultural Chemistry, University of Agriculture Sciences, Bangalore
<b>Sectional Recorder</b>		<b>Prof Anand S Aswar</b> , Department of Chemistry, SGB Amravati University, Amravati
<b>January 04, 2020</b>		
<b>14:00 – 17:30 PM</b>		
<b>Venue</b>	:	
<b>Presidential Address</b>	:	<b>Diwan S. Rawat</b> Department of Chemistry, University of Delhi : <i>Hybrid strategy: A versatile approach for design and development of antimalarial and nanocatalysis</i>
<b>Platinum Jubilee Lecture</b>	:	<b>Kamal K Kapoor</b> Department of Chemistry, University of Jammu : <i>Synthesis of N/O-containing fused heterocyclic compounds of biological significance</i>
<b>Award Lecture: R. C. Shah Memorial Lecture</b>		<b>B.M.Praveen</b> , Director – Research and Innovation Council, Srinivas University, Mukka, Mangaluru-574 146;
<b>Young Scientist Award Presentations</b>	:	<b>Minju joy</b> Marine Biotechnology Division, Central Marine Fisheries Research Institute, Ernakulam North P. O., Kochi – 682 018., Kerala.  <b>Sarvesh Kumar Pandey</b> Department of Inorganic & Physical Chemistry, Indian Institute of Science , Bangalore – 560 012.  <b>Kundan Singh Rawat</b> , Division of Medicinal and Process Chemistry, CSIR-Central Drug Research Institute, Lucknow, 226031
<b>SECTIONAL COMMITTEE ELECTION</b>		

**January 05, 2020  
Symposium**

**14:00 – 17:30**

Venue

**Chemical Sciences in Human Health Care: Synthesis of Biologically Active Molecules**

**14:00 - 15:30**

**Keynote Lectures**

<b>Keynote Lectures</b>	<p><b>VK Singh</b> Indian Institute of Technology, Kanpur <i>: Chiral brønsted acids for asymmetric organocatalysis</i></p>
	<p><b>Tatsuo Kaneko</b> Japan Advanced Institute of Science and Technology, Japan <i>: Photo-functional bioplastics for sustainability</i></p>
	<p><b>Ravindra K Pandey</b> PDT Center, Roswell Park Cancer Institute, Buffalo, NY, USA <i>: Photo- and ultrasound triggered multifunctional nanoparticles for the treatment of glioblastoma</i></p>
	<p><b>Atul Goel</b> Central Drug Research Institute, Lucknow <i>: Pyranone-derived multi-coloured fluorescent molecules for organic electronics and biomedical applications</i></p>
	<p><b>KN Singh</b> Banaras Hindu University, Varanasi <i>: Development of some new protocols in organic synthesis</i></p>
	<p><b>Santosh Gharpure</b> Indian Institute of Technology, Mumbai <i>: Reactions of al-kynes for the synthesis of oxa- and aza-cycles</i></p>

**16:40 - 18:05**

**Invited Lectures / Short Invited Lectures**

<b>Invited Lectures</b>	<p><b>DS Reddy</b> National Chemical Laboratory, Pune <i>: Application oriented organic synthesis: A few case studies from our group</i></p>
	<p><b>Vivek Polshettiwar</b> Tata Institute of Fundamental Research, Mumbai <i>: Artificial nano-trees of black gold to fight climate change</i></p>

<b>Short Invited Lectures</b>		
		<p><b>Ravi P Singh</b>  Indian Institute of Technology, Delhi  : <i>Asymmetric C-C and C-Heteroatom bond formation through spatial control at remote place</i></p>
		<p><b>S. Lalitha Nagesvari</b>  United States-India Educational Foundation  : <i>Information session on Fulbright-Nehru, Fulbright-Kalam and other Fulbright fellowship opportunities</i></p>
		<p><b>Hirdesh Mishra</b>  MMV, Banaras Hindu University, Varanasi  : <i>Near field effect of plasmonic nano particles on the photophysics of fluorescent molecules</i></p>

**Panel Discussion on Partnership/Collaboration Between Academia and Industry**

**Industry partners:**  
**SN Vinaya Babu**, *Founder and Managing Director, Bioneds India Pvt Ltd, Bangalore*  
**K Shamanna Thyagrajan**, *President, Regulatory Research, Crystal Crop Ltd, Delhi*  
**Hosmani Rajendra**, *Vice President, Syngenta Indian Ltd, Goa*  
**Keshav Deo**, *Executive Director, Almeno Pvt Ltd, Hyderabad*  
**Gurram Kishan**, *CEO and MD, Sravathi Advance process Technologies Pvt Ltd, Hyderabad*  
**UV Babu**, *Head, Himalayan Drugs, Bangalore*  
**Ravinder Singh**, *Head of India R&D, Custom synthesis and Manufacturing, Sigma-Aldrich (Merck KGaA)*  
**Sudhir Singh**, *Senior VP, GVK Biosciences, Hyderabad*  
**Vijayvitthal T Mathad**, *Senior VP, MSN Laboratories Ltd, Telangana*  
**VK Gupta**, *Head, Reliance Industries Ltd, Mumbai*  
**Anurag Mishra**, *Senior Scientist, Reliance Ind. Ltd, Mumbai Syngenta*

**BEST POSTER AWARD PRESENTATION**

**Concurrent Poster Session –I (P1-P100)**



<p align="center"><b>January 06, 2020 (Parallel Session I)</b>  <b>Chemical Sciences in Human Health Care: Catalysis in the Synthesis of Medicinally and Commercially Important Molecules</b></p>		
<b>14:00 – 17:30</b>		
Venue		
<b>Keynote Lectures</b>		
<b>Keynote Lectures</b>		<p><b>Lakshami Kantam</b>            Institute of Chemical Technology, Mumbai  <i>: Design and development of catalysts for green, energy efficient and economical processes &amp; technologies for chemical industry</i></p>
		<p><b>G Mugesh</b>            Indian Institute of Science, Bangalore  <i>: Halogen bonding in thyroid hormone action and membrane transport</i></p>
<b>Invited Lectures</b>		
<b>Invited Lectures</b>		<p><b>Anthony Addlagatta</b>            Indian Institute of Chemical Technology, Hyderabad  <i>: Discovery of a Pfa-MI selective inhibitor over the mammalian counterpart as antimalarial agent</i></p>
		<p><b>Vibha Tandon</b>            Jawaharlal Nehru University, Delhi  <i>: A multi-scale approach to combat the mechanisms of antimicrobial resistance through a bacterial topoisomerase IA inhibitor</i></p>
		<p><b>Vijayavithal T. Mathad</b>            MSN Laboratories Private Limited, Hyderabad  <i>: The Legacy of Indian Pharmaceutical Development and Manufacturing - Converting Challenges into Opportunities: A Prospective on Make in India Mantra.</i></p>
<b>Invited Talks</b>		
<b>Invited Talks</b>		<p><b>Ambrish Singh</b>            Southwest Petroleum University, China  <i>: New and effective corrosion inhibitors for N80 steel in sweet corrosive environment</i></p>
		<p><b>Kaman Singh</b>            Babasaheb Bhimrao Ambedkar University, Lucknow  <i>: Re-evaluation of the classical Langmuir isotherm for modeling adsorption phenomena</i></p>

	<p><b>Surinder Prasad</b>  The University of the South Pacific, Suva, Fiji  : <i>Catalytic kinetic method in food analysis at the University of the South Pacific: Iodine contents in Fijian foods</i></p>
	<p><b>Garima Jindal</b>  Indian Institute of Science, Bangalore  : <i>Role of metals in engineered metalloenzymes: A computational investigation</i></p>
<b>Invited Lectures , Short Invited Lectures</b>	
	<p><b>VK Gupta</b>  Reliance Industries Ltd, Mumbai  : <i>Polyolefin catalyst technology: Paradigm shift in new generation catalyst development from serendipity to material strategy</i></p>
	<p><b>Vivek Bagchi</b>  Institute of Nano Science and Technology, Mohali  : <i>Synergistically enhanced HER activity in mesoporous Mo<sub>2</sub>C/MoO<sub>2</sub> nanocomposite</i></p>
	<p><b>Ravindra V Singh</b>  Sigma-Aldrich Chemicals Pvt. Ltd (Merck Group Company), Bangalore  : <i>Partial PROTACs, ready-to-use novel small molecule chemical entities for synthesis of PROTACs- An emerging therapeutic tool and promising new technology in drug development</i></p>
	<p><b>Amit Kumar</b>  Japan Advanced Institute of Science and Technology, Japan  : <i>Polypeptide gels originated from exotic functional aromatic amino acid, 4-amino-L-phenylalanine</i></p>
	<p><b>Jovan Jose</b>  University of Hyderabad  : <i>Electrostatic guidelines for designing nanocatalysts</i></p>
	<p><b>Gurpreet Kaur</b>  Punjab University, Chandigarh  <i>Designing of metal functionalized surfactant for bioactive, bioinspired and catalytic applications</i></p>
	<p><b>Amalendu Pal</b>  Kurukshetra University, Kurukshetra  <i>Interactional behavior of surface active ionic liquid lauryl isoquinolinium bromide with anionic polyelectrolytes poly (acrylic acid sodium salt) and poly(4-styrenesulfonic acid-co-maleic acid) sodium salt (PSS-co-MA) in aqueous solution</i></p>
	<p><b>Sandeep Pokharia</b></p>

	MMV, Banaras Hindu University, Varanasi <i>: How organotin(IV) moiety interacts with quinolone drugs? A combined experimental and theoretical exploration</i>
	<b>Kalyanjyoti Deori</b> Dibrugarh University <i>: Development of binary metal chalcogenide and alloy nanoparticles as promising heterogeneous catalysts</i>
	<b>Meera Yadav</b> NERIST, Nirjuli, Itanagar <i>: CeO<sub>2</sub> Nanoparticle as an emerging catalase mimicking activity</i>
<b>Concurrent Poster Session –II (P101-P200)</b>	

<b>January 06, 2020 (Parallel Session II)</b>	
<b>Symposium</b>	
<b>14:00 – 17:30</b>	
Venue	
<b>Keynote Lectures</b>	
<b>Keynote Lectures</b>	<b>Kazuaki Matsumura</b> Japan Advanced Institute of Science and Technology, Japan <i>: Thermoresponsive degradation control of polysaccharides for drug delivery</i>
	<b>Kavirayani R. Prasad</b> Indian Institute of Science, Bangalore <i>: An unexpected entry into the realm of sulfinimines during the total synthesis of polyol natural products</i>
<b>Invited Lectures</b>	
<b>Invited Lectures</b>	<b>Tharmalingam Punniyamurthy</b> Indian Institute of Technology, Guhwati <i>: Regioselective carbon-carbon and carbon-heteroatom bond formation via C-H functionalization</i>
	<b>Anil Kumar</b> Birla Institute of Technology, Pillani <i>: Synthesis of imidazo[1,2-a]pyridine derivatives and pyridin-2-ylurea using functionalized pyridinium salts</i>

		<p><b>Pritam Mukhopadhyay</b>  Jawaharlal Nehru University, Delhi  : <i>Synthesis and stabilization of radical ions and their varied electroactive states</i></p>
<b>Invited Lecture</b>		
<b>Invited Lecture</b>		<p><b>Jiteender Chugh</b>  Indian Institute of Science Education and Research, Pune  : <i>Biophysical insights into RNA-protein interactions</i></p>
		<p><b>Sunil Bhand</b>  Birla Institute of Technology and Science Pilani, Goa Campus, Goa  : <i>Molecularly imprinted polymer based capacitive sensors for chemical contaminant analysis</i></p>
		<p><b>Satish K Awasthi</b>  University of Delhi  : <i>Peroxide based antimalarial synthetic compounds. A success story</i></p>
		<p><b>Prasun Kumar Roy</b>  Centre for Fire, Explosive and Environment Safety, DRDO, Delhi  : <i>Exploring the potential of electrospinning technique for fabrication of mechanically robust polyurea nanofibers</i></p>
<b>Invited Lectures</b>		
<b>Invited Lecture</b>		<p><b>Vineet Kumar</b>  Forest Research Institute (Deemed to be) University, Dehradun  : <i>Structural analysis of natural products: Case studies of interesting molecules</i></p>
		<p><b>Virender Singh</b>  National Institute of Technology, Jalandhar  : <i>Synthesis of chemical libraries of biologically potential <math>\beta</math>-carboline based molecular architectures from kumujian C</i></p>
		<p><b>Satpal Singh</b>  Rajasthan University, Jaipur  : <i>Catalyst-free synthesis of thioethers, phosphinothioates and phosphoroselenoates</i></p>
		<p><b>Vinita Sahoo</b>  National Assessment and Accreditation Council, Bangalore  : <i>Role and importance of quality assurance and assessment of higher educational institutions</i></p>

### Short Invited Lectures /Oral Lectures

<b>Short Invited Lectures</b>	<b>Vimal Rah</b> Sri Guru Tegh Bahadur <i>Khalsa College, University of Delhi</i> : <i>MOOCs and ARPIT in chemistry: Government of India initiatives</i>
	<b>Shilpee Sachar</b> University of Mumbai : <i>Surface designing of nanomaterials for biomedical applications</i>
	<b>Anupaul Baruah</b> Dibrugarh University : <i>Tripeptide structural propensity based protein secondary structure prediction</i>
	<b>Sugumar Venkataramani</b> Indian Institute of Science Education and Research, Mohali : <i>Photoswitches–fundamentals to functional molecules</i>
<b>Oral Presentations</b>	<b>Gunjan Purohit</b> University of Delhi : <i>Sustainable synthesis of nanomaterial and their catalytic potential for one pot multicomponent reactions</i>

January 07, 2020

Chemical Sciences in Human Health Care

14:00 – 13.00

Venue	
<b>Invited Lecture</b>	<b>Deepak Pant</b> Central University of Haryana, Mahendragarh : <i>Comparative study of organic acid –microbe leaching pattern towards Co and Li extraction in lithium ion batteries (LIBs)</i>
<b>Short Invited Lectures</b>	<b>Surendra Singh Bisht</b> Institute of Wood Science and Technology, Bengaluru : <i>Gas chromatography and mass spectrometry (GC-MS) and infra red (IR) spectrum based method for identification and assessment of the quality of Indian Sandalwood oil and other essential oils</i>
<b>Oral Presentations</b>	<b>Brejesh Rathi</b> Hansraj College, University of Delhi : <i>Discovery of novel multistage antimalarials</i>
	<b>K. L. Ameta</b> Mody University of Science and Technology, Lakshmanagarh : <i>Synthesis of bioactive heterocycles using nanocatalytic framework</i>
	<b>Vinod Kumar</b> Kirori Mal College, University of Delhi, Delhi : <i>Band gap engineering of anion doped and anion-anion codoped SnO<sub>2</sub> nanoparticles for hydrogen generation</i>
	<b>Kavita Sharma</b> Shri Vaishnav Vidyapeeth Viswavidhyala, Indore : <i>Thin layer chromatographic and spectrographic analysis of sealing wax</i>
	<b>Yogesh Kumar Pandey</b> Allahabad University : <i>Glycerol promoted synthesis of nitrogen containing heterocyclic compound</i>
	<b>Sushmita</b> University of Delhi : <i>Triple bond directed Csp<sup>2</sup>-N bond formation through N-fluorobenzenesulfonimide as aminating source: One-step transformation of aldehyde into amine</i>
<b>Concurrent Poster Session –II (P201-P262)</b>	
<b>General Discussion and Recommendations</b>	

SECTION		EARTH SYSTEM SCIENCES
<b>Sectional President</b>		<b>Prof. R.B. Singh</b> Department of Geography, University of Delhi, Delhi 7
<b>Sectional Secretary</b>		<b>Prof. K.N. Kalyanamurthy</b> Department of Agronomy, College of Agriculture, Bangalore
<b>Sectional Recorder</b>		<b>Dr. B.W. Pandey</b> Department of Geography, University of Delhi, Delhi 110007
<b>January 04, 2020</b>		
<b>14:00 – 17:00</b>		
<b>Venue</b>	:	<b>Agronomy Seminar Hall 1</b>
<b>Presidential Address</b>	:	<b>R.B. Singh:</b> University of Delhi  <i>Advancing earth system sciences towards climate and disaster resilience for sustainable rural development</i>
<b>Platinum Jubilee Lecture</b>	:	<b>V.M.Tiwari</b> Director-CSIR-National Geophysical Research Institute, Hyderabad  <i>Quantifying hydrological fluxes for water management and decision</i>
<b>Award Lecture:</b>  <b>Prof. William Dixon West Memorial Award</b>  <b>Young Scientist Award Presentations</b>	:	<b>Chakravadhanula Manikyamba</b> Head, Geochemistry Division, CSIR-National Geophysical Research Institute, (NGRI), Uppal Road, Hyderabad , Telangana, India.  <b>Satabdi Misra</b> Coal Geology and Organic Petrology Lab, Department of Applied Geology, Indian Institute of Technology (Indian School of Mines), Dhanbad , Jharkhand  <b>Mahesh Madhawrao Solankar</b> Department of Computer Science and information Technology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (MS) –  <b>Puneet Kumar Verma</b> Department of Chemistry, Dayalbagh Educational Institute, Dayalbagh, Agra.

**SECTIONAL COMMITTEE ELECTION**



January 05, 2020

14:00 – 17:30

Venue

Agronomy Seminar Hall 1

14.00 – 16.00

Symposium

Invited Lectures

- Harsh K. Gupta: Inaugural Address**  
Member, Atomic Energy Regulatory Board  
President, Geological Society of India  
National Geophysical Research Institute, Hyderabad  
*Developing an earthquake and tsunami resilient society*
- Kazuo Tomozawa**  
Graduate School of Letters, Hiroshima University, Japan  
*How to live in an aging society: lessons from rural Japan?*
- M.R. Ramesh Kumar**  
Physical Oceanography Division, National Institute of Oceanography, Goa  
*Vagaries in monsoon: role of ocean atmospheric process*
- Chris King**  
Keele University, UK.  
*Teaching interactive earth science in schools across the world*
- Dewashish Kumar**  
CSIR-National Geophysical Research Institute, Hyderabad  
*High resolution electrical tomography mapping for groundwater exploration, prospecting and development in a different geological settings*
- K. Siddhartha**  
*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*

Venue

Agronomy Seminar Hall 1

16.00 – 17.45

Invited Lectures/ Oral Presentations

- Dr. R. Shankar**  
Past Chair, International Geoscience Education  
Organization  
*Earth science education in high schools in India*

**G. Parthasarathy**

INSA Senior Scientist, School of Natural and Engineering Sciences, Indian Institute of Science Campus, Bengaluru

*Applied mineralogy for environmental and sustainable development*

**A.K. Sinha**

Vice Chancellor, GSM University, Navi Mumbai, Maharashtra

*Connecting hydrological, socio-economic and scientific dots towards resilient ground water management system in dry regions of western India*

**Santanu Ghosh and Atul Kumar Varma**

Indian Institute of Technology, Dhanbad

*Metamorphic facets of the coals from the Himalayan fold-thrust belts of Sikkim, India*

**S. Lalitha Nagesvari**

Program Manager, United States-India Educational Foundation, Fulbright Commission in India, Chennai

*Information session on fulbright-nehru, fulbright-kalam and other fulbright fellowship opportunities*

**Concurrent Poster Session –I**

**Earth System Science for Resilience and Disaster Risk Reduction**

**January 06, 2020**

**14:00 – 17:30**

Venue

**Two Parallel Sessions  
(Agronomy Seminar Hall 1 and 2)**

**Symposium**

Hall 1: Earth System Science for Resilience and Disaster  
Risk Reduction

Hall 2: Geoscience Education, Sustainable Development  
and Future Earth

**Invited Lectures  
Hall 1**

**Koichi Kimoto**

Kwansei Gakuin University, Japan

*Enclosing the earth – protected India*

**Pankaj Kumar<sup>1</sup> and Narayani Gogoi<sup>2</sup>**

<sup>1</sup>Delhi School of Economics, University of Delhi

<sup>2</sup>Indian Institute of Technology Guwahati

*Estimating the impact of climate change on freshwater availability in the dhansiri watershed*

**Nagarjun Kumar S M and Arun Das S**

Department of Studies in Geography, University of Mysore.

*Tracing the paths of paleo channels of southern kabini river basin: a signature of changing climate.*

Earth System Science for Resilience and Disaster Risk Reduction

**Ramanathan Baskar<sup>1</sup> and Sushmitha Baskar<sup>2</sup>**

<sup>1</sup>Department of Environmental Science and Engineering, Guru Jambheshwar University of Science and Technology, Hisar

<sup>2</sup>Environmental Studies, School of Interdisciplinary and Transdisciplinary Studies, Indira Gandhi National Open University (IGNOU), New Delhi

*Linkages between microorganisms and climate change: frontier areas of research*

**K. Kumaraswamy**

Department of Geography, Bharathidasan University

Tiruchirappalli

*Climate change and its influences on the coastal landforms of Tamil Nadu, South India*

**Debasri Mukherjee<sup>1</sup> and M N Roy<sup>2</sup>**

<sup>1</sup>Senior Research Officer, Sigma Foundation, Kolkata

<sup>2</sup>President, Sigma Foundation, Kolkata

*Decentralized water governance: mobilising community towards sustainable development goal-6 by 2030*

**Malabika Biswas Roy**

<p><b>Hall 2</b></p>	<p>Department of Geography, Women's College, Calcutta, Kolkata</p> <p><i>Wetlands: environmental role, issues and challenges</i></p> <p><b>Geoscience Education, Sustainable Development and Future Earth</b>  <b>Ajoy Saha<sup>1*</sup>, Sibina Mol S.<sup>1</sup>, Deepa Sudheesan<sup>2</sup>, V. R. Suresh<sup>3</sup>, S. K. Nag<sup>3</sup>, T. T. Paul<sup>2</sup>, R. Palaniswamy<sup>2</sup>, and B. K. Das</b>  <sup>1</sup>Bangalore Research Centre of ICAR-Central Inland Fisheries Research Institute, Bangalore  <sup>2</sup>Kochi Research Station of ICAR-Central Inland Fisheries Research Institute, Kochi  <sup>3</sup>ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata</p> <p><i>Geo-chemistry and nutrient concentrations of the pampa river sediment during kerala flood of 2018</i></p> <p><b>Ramachandra TV<sup>1,2</sup>, Karthik Naik<sup>1</sup>, Bharath S<sup>1</sup> and Vinay S<sup>1</sup></b>  <sup>1</sup>Energy and Wetlands Research Group, TE 15, CES, Indian Institute of Science  <sup>2</sup>Centre for Sustainable Studies (astra), Indian Institute of Science, Bengaluru  <sup>3</sup>Department of Civil Engineering, MAHE, Manipal, Udupi, Karnataka</p> <p><i>Assessment of landscape dynamics in Belgaum district</i></p> <p><b>Sushmitha Baskar<sup>1</sup> and Ramanathan Baskar<sup>2</sup></b>  <sup>1</sup>Environmental Studies, School of Interdisciplinary and Transdisciplinary studies, Indira Gandhi National Open University (IGNOU), New Delhi – 110 068  <sup>2</sup>Department of Environmental Science and Engineering, Guru Jambheshwar University of Science and Technology, Hisar- 125 001, Haryana</p> <p><i>Evidences of biologically influenced Sspeleothems in some Indian Caves in Jaintia and Garo hills, Meghalaya</i></p> <p><b>Rukaiya Kausher and Anand Kumar Sinha</b>  <i>Civil and Environmental Engineering, Birla Institute of Technology, Mesra, Ranchi</i></p> <p><i>The significance of groundwater flow modelling in the mining areas using mudflow.</i></p> <p><b>Ramachandra TV<sup>1,2*</sup>, Vinayaka Bhatta G<sup>1,3</sup>, Vinay S<sup>1</sup>, Bharath S<sup>1</sup></b></p>
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	<p><sup>1</sup>Energy and Wetlands Research Group, CES TE15, Indian Institute of Science <i>Land use dynamics in mysore, the cultural capital of karnataka</i></p> <p><b>N. Chendrayudu</b> Department of Geography, S.V. University, Tirupati, Andhra Pradesh</p> <p><i>Geospatial technology education for a sustainable planet</i></p> <p><b>Sucheta Yadav<sup>1</sup>, Sudhir Kumar Bansal<sup>2</sup> and Sunil Kumar<sup>3</sup></b> <sup>1</sup>Department of Geography, Pt. N.R.S. Govt. College, Rohtak <sup>2</sup>Department of Geography, M.D. University, Rohtak <sup>3</sup>Department 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>
<b>16.00 – 17.45 Invited Lectures/ Oral Presentations</b>	
<b>Hall 1</b>	<p><b>Earth System Science for Resilience and Disaster Risk Reduction</b></p> <p><b>D. Panda<sup>1</sup> and M. Devi<sup>2</sup></b> P.G. Department of Geography, Utkal University, Bhubaneswar Department of Physics, School of Applied Sciences, KiiT University, Bhubaneswar</p> <p><i>Impact of Cyclone Disaster and their management in Odisha</i></p> <p><b>M. A. Shaikh<sup>1</sup>, S. C. Karle<sup>1</sup>, S. M. Anpat<sup>2</sup>, S. S. Dubal<sup>3</sup> and S. B. Sayyad<sup>4</sup></b> Savitribai Phule Pune University, Pune <sup>2</sup>Marathwada Mitramandal College of Commerce, Pune <sup>3</sup>Balbhim Arts, Science and Commerce College, Beed <sup>4</sup>Milliya Arts, Science &amp; Management Science College, Beed. <i>Vegetation area estimation of microwave l band sir-c sar dataset using classification techniques: an agricultural study</i></p> <p><b>P.M. Natarajan<sup>1</sup> and Shambu Kallollikar<sup>2</sup></b> <sup>1</sup>Centre for Climate Change, Periyar Maniammai University <sup>2</sup>IAS, Principal Secretary, Environment and Forest and Pollution Control Board, Chennai</p> <p><i>Biofuels impact on the water and food securities</i></p> <p><b>Rohit Kumar<sup>1</sup> and Benidhar Deshmukh<sup>2</sup></b> <sup>1</sup>School of Sciences, Indira Gandhi National Open University, New Delhi</p>

<p><b>Hall 2</b></p>	<p><sup>2</sup>School of Sciences, Indira Gandhi National Open University, New Delhi</p> <p><i>Use of google earth engine in rusle based soil loss estimation in Parbati river basin</i></p> <p><b>Poompavai V<sup>1</sup>, Manjula VB<sup>1</sup>, Nagajothi K<sup>1</sup>, Ganesha Raj K<sup>1</sup> Prashnat Kumar B<sup>2</sup>, Chinnaraja Naidu<sup>2</sup></b></p> <ol style="list-style-type: none"> <li>1. Regional Remote Sensing Centre-South, NRSC, ISRO, Bengaluru</li> <li>2. Geographical Indications Registry</li> </ol> <p><i>Geospatial Database of Geographical Indicators of India</i></p> <p><b>Pawan Kumar Thakur<sup>1*</sup>, Jagdish Chandra Kuniyal<sup>2</sup>, Renu Lata<sup>1</sup> and B. D. Bharath<sup>3</sup></b></p> <p><sup>1</sup>G. B. Pant National Institute of Himalayan Environmental &amp; Sustainable Development, Himachal Regional Centre, Mohal-Kullu</p> <p><sup>2</sup>G.B. Pant National Institute of Himalayan Environmental &amp; Sustainable Development, Kosi-Katarmal, Almora</p> <p><sup>3</sup>National Remote Sensing Centre, Hyderabad, Andhra Pradesh, India</p> <p><i>Estimation of land surface temperature using landsat 7 (etm+) and landsat 8 (oli) thermal infrared sensor, over delhi city, india</i></p> <p><b>Geoscience Education, Sustainable Development and Future Earth</b></p> <p><b>L. Romendro Singh and Ch. Mangi Khuman</b> 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><b>Sanjeev K Sahu, Manisha Bhor, Moumita Pal and Basanta K Das</b></p> <p>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><b>Snehamoy Pramanik</b> Department of Applied Mathematics, Indian Institute of Technology (Indian School of Mines) Dhanbad</p>
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*Effect of viscosity and anisotropy on propagation of rayleigh surface wave*

**Thingujam Dolendro<sup>1</sup> and Arun Kumar<sup>2</sup>**

<sup>1</sup>Geoconsult India

<sup>2</sup>Northeast Frontier Railway

*NATM technology in tupul-imphal section of jiribam-tupul-imphal railway line in manipur, India*

**Ramachandra TV<sup>1,2\*</sup>, Vinayaka Bhatta G<sup>1,3</sup>, Vinay S<sup>1</sup>, Bharath S<sup>1</sup>**

<sup>1</sup>Energy and Wetlands Research Group, CES TE15, Indian Institute of Science

<sup>2</sup>Centre for Sustainable Studies (astra), Indian Institute of Science, Bengaluru

<sup>3</sup>Department of Civil Engineering, MAHE, Manipal

*Land use dynamics in Mysore, the cultural capital of Karnataka*

**S. Saha , A. Chattopadhyay, A.K. Singh**

Indian Institute of Technology (ISM), Dhanbad

*Influence of stress free base on propagation of rayleigh type wave in voigt-type viscoelastic layer*

**Sucheta Das and Anupam Ghosh**

Department of Geological Sciences, Jadavpur University, Kolkata -700032

*The study of recent benthic foraminifera in the chilika lake, Odisha*

## Concurrent Poster Session –II

**Geoscience Education, Sustainable Development and Future Earth**



**January 07, 2020**

**14:00 – 15:00**

Venue

**Agronomy Seminar Hall 1**

**14.00 – 15.00**

Invited Lectures/ Oral Presentations

**Venkatesh R., Abdul Rahaman S., Thilagaraj P.**

Department of Geography, Bharathidasan University, Tiruchirappalli

*Environmental vulnerability assessment in Pombar watershed, Ponnaiyar basin: A sustainable management of eco-environment*

**Janardan Bhagat**

Dean of Social Science, P.G. Dept. of Geography, V.B.U. Hazaribag

*Agriculture development and its problem of tribal region of Jharkhand*

**S.S. Hangaragi**

Department. of Geography, SRN arts and MBS Commerce College,  
Bagalkot-587101, Karnataka State

*Need to prevent the land degradation for sustainable development of agriculture sector : A case study of Karnataka state*

**Soumik Das , Shishir Gupta, Rachaita Dutta**

Department of Maths and Computing, IIT(ISM), Dhanbad

*Propagation of SH wave in a corrugated elastic medium with void pores:  
Case wise analysis*

**General Discussion and Recommendations**

SECTION	ENGINEERING SCIENCES
<b>Sectional President</b>	<b>Dr Asit Kumar Das</b> , Reliance Industries Limited, Jamnagar, Gujarat
<b>Sectional Recorder</b>	<b>Dr Pankaj Kumar Roy</b> , Faculty of Inter Disciplinary Studies, Law & Management, Jadavpur University, Kolkata
<b>Sectional Secretary</b>	<b>Dr H. G. Ashok</b> , Agricultural Engineering, GKVK, Bengaluru
<b>January 04, 2020</b>	
<b>14:00 – 17:00</b>	
<b>Venue</b>	
<b>Presidential Address</b>	<b>Asit Kumar Das</b> Reliance Industries Limited, Jamnagar, Gujarat  <i>Key contributions of Engineering Science in Sustainable Development of India</i>
<b>Platinum Jubilee Lecture</b>	<b>Haripada Bhunia</b> Prof & Head, Chemical Engineering Dept, Thapar Institute of Engineering & Technology, Patiala  <i>CO<sub>2</sub> capture and utilization : An intense area of research</i>
<b>Keynote Lecture</b>	<b>R.K. Malhotra</b> FIPI (Federation of Indian Petroleum Industry), Ex Director-Indian Oil Corporation Ltd R&D Centre, Faridabad  <i>Cleaner &amp; Sustainable Fuels &amp; Related Technologies for Transport : Challenges and Opportunities</i>
	<b>O. P. Bahl</b> Indian Carbon Society, New Delhi. Ex-Emeritus Scientist CSIR-NPL, Ex-UN Chief Technical Advisor (C Fiber) & UNIDO consultant  <i>Role of Advance C materials in India's development</i>
<b>Invited Lecture</b>	<b>Parimal A Parikh</b> Emeritus Professor, Chemical Engineering Dept, SV NIT, Surat  <i>Valorizing biomass fermentation products : Acetone &amp; Butanol</i>

	<p><b>Prasad Deodhar</b> Bhagirath Graamvikas Pratisthan, Sindhudurg, Maharashtra</p> <p><i>Destination : Clean Fuel</i></p>
	<p><b>S. Lalitha Nagesvari</b> United States-India Educational Foundation, Fulbright Commission in India, Chennai</p> <p><i>Information session on Fulbright-Nehru, Fulbright-Kalam and other Fulbright fellowship opportunities</i></p>
<p><b>Young Scientist Award Presentation</b></p>	<p><b>Debabrata Mandal</b> School of Nanoscience and Technology, India Institute of Technology Kharagpur, Kharagpur, West Bengal – 721 302</p> <p><b>Pallabi Das</b> CSIR- Central Institute of Mining and Fuel Research, Barwa Road Campus, Dhanbad – 826 001. Jharkhand.</p> <p><b>Avinash R. Pai</b> International and Inter University Centre for Nanoscience and Nanotechnology, Mahatma Gandhi University, Kottayam, Kerala - 686 560.</p>
<p><b>SECTIONAL COMMITTEE ELECTION</b></p>	

**January 05, 2020**

Venue	
<b>14:00 – 16:00</b>	<b>Symposium: Sustainable Engineering Science &amp; Technology for Rural Development</b>
<b>Keynote Lecture</b>	Swami Vedajnananda, Chemical Engineering Dept., Heritage Institute of Technology, Kolkata.  <i>Sustainable Engineering Approaches for Rejuvenation of Rural India</i>
	Virendra Kumar Vijay, Head- Centre for Rural Development & Technology, IIT Delhi  <i>Biogas production, upgradation, power generation and utilization for Energy self-reliance in rural areas</i>
<b>Invited Lecture</b>	Sudip Basack, Ex Professor Civil Engineering, Kaziranga University, Jorhat, Assam  <i>A Laboratory Study on the Influence of Saltwater Intrusion on Sand relevant to Coastal Environment</i>
	Susobhan Sarkar, Centre of High Technology, Ex- Indian Oil Corporation Ltd., New Delhi.  <i>GoI's Ujjwala Yojana : A boon for Rural Families &amp; Development</i>
	Satish Daggupati, Refining R&D Center, Reliance Industries Ltd, Jamnagar, Gujarat.  <i>Catalytic Gasification of Biomass and Agri Waste &amp; Conversion of Plastic to Oil</i>
<b>16:15-17:45</b>	<b>Symposium: Sustainable Engineering Science &amp; Technology for Rural Development</b>
<b>Keynote Lecture</b>	G. Narahari Datta, ISRO Telemetry Tracking Command Network (ISTRAC), Bangalore.  <i>Eye in the Sky for sustainable development in India</i>
	Rama Rao Marri, FCC & Olefins Sector, McDermott International, Houston, Texas, USA  <i>Developing &amp; commercializing new process technologies in world market : Challenges &amp; Opportunities</i>
<b>Invited Lecture</b>	Ramesh Bhujade, Reliance Industries Limited, Navi Mumbai  <i>RCAT-HTL: Sustainable Technology for Biomass Conversion to Liquid Fuel</i>

	Virendra Kumar Vijay, Centre for Rural Development & Technology, IIT Delhi  <i>Unnat Bharat Abhiyan program of MHRD GoI for catalysing S&amp;T interventions and development of villages through Higher Educational Institutes of India.</i>
<b>Oral Presentation</b>	Subhranil Das, Birla Institute of Technology, Mesra, Ranchi  <i>Development of Artificial Intelligence Algorithm in Vision based obstacle avoidance for AGV Vehicles</i>
<b>Concurrent Poster Session – I</b>	

<b>January 05, 2020</b>	
Venue	
<b>14:00 – 16:00</b> Symposium: Innovative Engineering Solutions in Energy, Water & Rural Infrastructure	
<b>Keynote Lecture</b>	Smita S Mule, AKRUTI Technology Section, Bhabha Atomic Research Centre (BARC), Mumbai  <i>Application of Nuclear Spin off for Promotion of Entrepreneurship and Self-reliance for Rural Area through AKRUTI Program</i>
	Abhijit Dasgupta, Dastur & Co. Ltd , Kolkata  <i>Sustainable Technologies for development of Rural India</i>
<b>Invited Lecture</b>	R. D.Singh, Indian Institute of Sugarcane Research, Lucknow.  <i>Development of a solar drier for Jaggery drying</i>
	Santanu Mukherjee, Earth Science Dept, IIT Gandhinagar, Gujarat  <i>Sustainable bio-based engineering Solution for Ground water protection</i>
<b>Oral Presentation</b>	D. K. Sharma, Vidya College of Engineering, Meerut, U.P.  <i>Solar Energy based Sustainable Living in Residential Buildings: An Approach towards Zero Energy Buildings (ZEBs)</i>
<b>Symposium: Innovative Engineering Solutions in Energy, Water &amp; Rural Infrastructure</b>	

<b>Keynote Lecture</b>	E. Bhaskaran, Industries and Commerce(Engineering), Government of Tamil Nadu.  <i>The Technical Efficiency of Handloom Clusters in India</i>
	Debapriya Dutta, State S&T Programme (SSTP), Division of TARA, DST, Govt of India, New Delhi.  <i>Location Specific Technologies for Agriculture and Rural Development - in response to aspirations of New India</i>
<b>Invited Lecture</b>	A.G.Matani, Mechanical Engineering Dept, Govt College of Engineering, Amravati, Maharashtra  <i>Optimizing currency notes waste utilization : Potentialities and prospects in Indian economy</i>
	Indrajit Shown, Amrita Centre for Nano-sciences and Molecular Medicine, Kochi, Kerala  <i>Artificial Photosynthesis: Metal chalcogenide nanomaterials as a promising photo-catalyst for CO<sub>2</sub> reduction into solar fuels</i>
<b>Oral Presentation</b>	Vandit Vijay, Centre for Rural Development & Technology, IIT Delhi  <i>Energy self-sufficiency in villages using locally available biomass resources – Gram Urja Swaraj</i>
<b>BEST POSTER AWARD PRESENTATION</b>	
<b>Concurrent Poster Session – I</b>	

**January 06, 2020**

Venue	
<b>14:00 – 16:00</b>	<b>Symposium: Sustainable Engineering Science &amp; Technology for Rural Development</b>
<b>Keynote Lecture</b>	S. C. Sarkar, Centre for Rural & Cryogenic Technology (CRCT), Jadavpur University, Kolkata  <i>Cryogenic &amp; allied research activities for Rural Sector &amp; replacement of CFCs- An overview</i>
	Santanu Dasgupta, Reliance Corporate R&D Centre, Navi Mumbai.  <i>Advancing technologies in R&amp;D pipeline from Fuel, Food to Biomaterials</i>
<b>Invited Lecture</b>	Vinod Kumar, U R Rao Satellite Centre, Bangalore, Karnataka  <i>Fault Prediction of Spacecraft Actuators using Auto Encoder Deep Neural Network Techniques</i>
	Subarna Bhattacharya, School of Environmental Studies, Jadavpur University, Kolkata.  <i>Fungal bio-deterioration of Concrete and its prevention using nanoparticle coating</i>
<b>Oral Presentation</b>	Malaya K Biswal, Dept of Physics, Pondicherry University, Puducherry  <i>Mars Missions Failure Report Assortment: Review and Conspectus</i>
<b>Symposium: Sustainable Engineering Science &amp; Technology for Rural Development</b>	
<b>Keynote Lecture</b>	V.P.Gosavi, Ex VC VOU, Arunachal Pradesh, Army Institute of Technology, Pune University, Pune. <i>Sustainable Rural Development of Engineering Science &amp; Technology Education – Challenges, Remedies-Ensuring Quality</i>
	P. Balamurugan, Centre for Rural Development, Annamalai University, Tamilnadu <i>A Comparative Study on Rural Tanks and their Need for Modernization in Tamilnadu and Karnataka States in India</i>
<b>Invited Lecture</b>	Sudip K Das, Head, Chemical Engineering Dept, University of Calcutta  <i>Adsorptive removal of Cu(II) and Arsenic from wastewater using natural bio-adsorbents in continuous column &amp; design scale-up</i>

	H.R. Vishwakarma, School of Information Technology & Engineering, Vellore Institute of Technology, Vellore-632014  <i>Systems Engineering Education &amp; Research : Challenges &amp; Opportunities</i>
<b>Oral Presentation</b>	D. Dewan, Damodar Valley Corporation, Kolkata  <i>Renewable Power Integration and Its Effect on Coal Fired Thermal Power Plant</i>
	Aniket Patil, Electrical Engineering Dept, GuruGobind Singh Polytechnic, Nashik, Maharashtra.  <i>Fault Detection &amp; Theft Analyzing System in Street Light Network</i>
<b>Concurrent Poster Session – II</b>	

<b>January 06, 2020</b>	
Venue	
<b>14:00 – 16:00</b>	<b>Symposium: Innovative Engineering Solutions in Energy, Water &amp; Rural Infrastructure</b>
<b>Keynote Lecture</b>	P.M.Natarajan, Le Verne City, California, Ex Centre for Climate Change, Periyar Maniammai University, Tamilnadu  <i>Biofuels Impact on the Water and Food Securities</i>
	Pankaj Kumar Roy, Faculty of Interdisciplinary Studies Law and Management, School of Environmental Studies, Jadavpur University, Kolkata  <i>Community Based Waste Water Treatment System in Rural Area</i>
<b>Invited Lecture</b>	H.Mahabaleshwara, Dept of Civil Engg, Ballari Institute of Technology & Management (BITM), Ballari, Karnataka  <i>Inter Basin &amp; Intra Basin Water Transfer –Unique solution for dual problems (Floods and Drought) in India</i>
<b>Oral Presentation</b>	A.O. Beena, Dept of Electronics and Communication Engineering, Saintgits College of Engineering, Pathamuttam, Kerala  <i>Low Cost Smart Braille Printer: An aid to Visually Impaired</i>



	<p>Poumi Ghosh, Department of Chemical Engineering, Heritage Institute of Technology, Kolkata</p> <p><i>Studies on Innovative Wastewater Treatment and Reuse for Villages using Reed Bed and Root Zone Treatment</i></p>
	<p>Yashodeo Mishra, Department of Chemistry, Birla Institute of Technology, Mesra, Ranchi 835215, Jharkhand</p> <p><i>Insitu growth of CeO<sub>2</sub> on Si-NWs and Its Application as Supercapacitor Anode</i></p>
<p><b>Symposium: Innovative Engineering Solutions in Energy, Water &amp; Rural Infrastructure</b></p>	
<b>Keynote lecture</b>	<p>P. K. Raychaudhuri, Ex-Head, PCRA, Eastern Region, Kolkata</p> <p><i>Energy Efficiency - Challenges in Agricultural Sector</i></p>
<b>Invited lecture</b>	<p>G.S. Mukherjee, Defence Research &amp; Development Organization, Delhi</p> <p><i>Innovative Polymer composite materials for Sustainable Application</i></p>
<b>Oral Presentation</b>	<p>Pooja Kumari, Dept of Physics, R N College, Pandual LNMU, Darbhanga, Bihar</p> <p><i>Suppression of surface waves and radiation pattern improvement using SHS technology</i></p>
	<p>Sumit Kumar Jha, Department of Electrical &amp; Electronics Engineering, Birla Institute of Technology, Mesra, Ranchi, Jharkhand</p> <p><i>Enabling the Technologies for Creating Power Reserve for Stand-Alone Microgrid</i></p>
	<p>Suman Chatterjee, Dept of Physics, University of North Bengal, Siliguri, W.B.</p> <p><i>Band Structure of different types of ZnO nanostructure and their dependence on efficiencies of fabricated dye sensitized solar cells</i></p>
<p><b>Concurrent Poster Session – II</b></p>	

**January 07, 2020**

Venue	
14:00 – 15:00	<b>Symposium Lecture &amp; Oral Presentation</b>
<b>Invited Lecture</b>	<p>Sudip K Ganguly, CSIR-Indian Institute of Petroleum, Dehradun.</p> <p><i>The Science behind carryover issues in the LPG Treating units: Technological Challenges &amp; Solutions</i></p>
<b>Oral Presentation</b>	<p>Sunil M. More, Guru Gobind Singh Polytechnic, Nashik, Maharashtra</p> <p><i>Overall Program POs attainment by using CO-PO Mapping with various Assessment Method</i></p>
	<p>Joydeep Das, Dept of Chemical Engineering, Heritage Institute of Technology, Kolkata</p> <p><i>Green Audit in Indian Village Clusters -- A must for Today</i></p>
	<p>Yash Raut, Dept. of Electrical Engg, Guru Gobind Singh Polytechnic, Nashik, Maharashtra</p> <p><i>Control Panel Monitoring System</i></p>
<b>GENERAL DISCUSSION AND RECOMMENDATIONS</b>	

SECTION		ENVIRONMENTAL SCIENCES
<b>Sectional President</b>		<b>Dr. Ranbeer Singh Rawal</b> , Director, G.B. Pant National Institute of Himalayan Environment and Sustainable Development, Kosi-Katarmal, Almora
<b>Sectional Secretary</b>		<b>Dr. K.T. Prasanna</b> , Professor & University Head, Dept. of Forestry and Environmental Science, College of Agriculture, UAS, GKVK Bangalore
<b>Sectional Recorder</b>		<b>Dr. Priyanka Priyadarshani</b> , Assistant Professor, ICFAI University Jharkhand, Jharkhand
<b>January 04, 2020</b>		
<b>14:00 – 17:30</b>		
<b>Venue</b>		
<b>Presidential Address</b>		<b>Ranbeer Singh Rawal</b> Director, G.B. Pant National Institute of Himalayan Environment and Sustainable Development, Kosi-Katarmal, Almora - 263643
<b>Platinum Jubilee Lecture</b>		<b>Hitendra Padalia</b> Head, Forestry and Ecology Department, Indian Institute of Remote Sensing (IIRS), ISRO, Dehradun  <i>New Generation Satellite Remote Sensing Techniques for Vegetation Science</i>
<b>Keynote address</b>		<b>Rattan Lal</b> Carbon Management and Sequestration Center, The Ohio State University, Columbus, OH 43210 USA  <i>Advancing sustainable development goals by restoring soil health of India's agroecosystems</i>
<b>Young Scientist Award Presentations</b>		<b>Writuparna Dutta</b> Presidency University, Department of Life Sciences, 86/1, College Street, Kolkata – 700 073.
<b>SECTIONAL COMMITTEE ELECTION</b>		

January 05, 2020

TWO PARALLEL SESSIONS

Symposium I

Balancing environmental conservation and sustainable development in India

14.30–18.00

Venue- -----

<b>Invited Lectures</b>	<b>Amar P. Garg</b> , SIE&T Meerut <i>Eco-friendly technology, the need of industry for sustainable development</i>
	<b>P. M. Natarajan</b> , EF&P Control Board Chennai <i>Climate change threat on Indian water resources</i>
	<b>MD Behera</b> , IIT Kharagpur <i>How potent satellite remote sensing in monitoring plant diversity?</i>
	<b>Bhawana Pathak</b> , CUG Gandhinagar <i>Bioremediation technology for agricultural contaminants: A sustainable approach for rural ecosystem</i>
	<b>Swati Gupta Bhattacharya</b> , Bose Institute Kolkata <i>Identification, purification and characterization of allergens for immunotherapeutic use</i>
	<b>Amit Pande</b> , ICAR-DCFR, Bhimtal, Nainital <i>Towards novel diagnostic tools for viral diagnosis</i>
	<b>Jyotsna S. Meshram</b> , RTM Nagpur University, Nagpur <i>Zeotype matrix composites</i>
	<b>G.C.S. Negi</b> , GBPNIHESD Kosi-Katarmal, Almora <i>Balancing forest conservation and sustainable development in the Western Himalayan Region</i>
	<b>Srabanti Basu</b> , HIT Anandapur, Kolkata <i>Technology development for removal of mercury(II) from industrial effluent</i>
<b>Oral Presentation</b>	<b>Poonam Singh Jakhar</b> , REEA Jodhpur, Rajasthan <i>Cassia angustifolia: an economic importance with special references to Thar desert</i>
	<b>Ranjit Singh</b> , Sri Shankar College, Sasaram, Rohtas, Bihar

		<i>New approaches to water projects in India</i>
		<b>Ranjeet Singh</b> , Pt. Chiranjilal Sharma Govt. College, Karnal
		<i>A Review of Plant Biodiversity in various regions of India</i>
		<b>Stutee Gupta</b> , NRSC Balanagar, Hyderabad
		<i>Assessing spatial relationships of VPs vis-à-vis forest fires using exploratory spatial data analysis</i>
		<b>A. G. Matani</b> , GCE Amravati
		<i>Methanol blending as a renewable fuel in automotive industries towards minimizing vehicular air pollution: Challenges and opportunities in Indian automobile industries</i>
		<b>Ashok Kumar Jha</b> , T. M. Bhagalpur University, Bhagalpur
		<i>Removal of Chromium from aqueous medium by Bentonites</i>
		<b>Ashish Kumar</b> , Agra College, Agra
		<i>An Assessment of water quality for drinking purpose in Agra city India</i>
		<b>B. Santhaveerana Goud</b> , Bangalore University, Bangalore
		<i>Adsorption of hexavalent chromium using calcinated eggshell</i>
<b>Symposium II</b>		
<b>14.30–18.00</b>		
<b>Promoting Environmental Consciousness in developing India</b>		
Venue- -----		
<b>Invited Lectures</b>		<b>Kashinath Bhattacharya</b> , Visva-Bharati Santiniketan, W. Bengal
		<i>Conservation of forest biodiversity in ancient Indian culture</i>
		<b>R. Suseela Reddy</b> , Jackson State University, USA
		<i>Studies in environmental sciences: variability of all India summer monsoon rainfall, climate change, global warming and environmental effects</i>
		<b>B. P. Mishra</b> , Mizoram University, Aizawl, Mizoram
		<i>Effects of anthropogenic disturbances on diversity-distribution of woody plants in Reiek forest, Mizoram, India</i>
		<b>P. Nammalwar</b> , Anna University, Tamil Nadu, India
		<i>Natural disasters and strategies for management in India - a review</i>
		<b>J. C. Kuniyal</b> , GBPNIHESD Kosi-Katarmal, Almora
		<i>Aerosols, radiative forcing and temperature rise in the northwestern Indian Himalaya</i>
		<b>P. Raja</b> , ICAR-IISWC Ooty

	<i>Carbon di oxide (CO<sub>2</sub>) fluxes from the temperate mountainous ecosystem of Nilgiris and their implications on global warming</i>
	<b>Subrat Sharma</b> , GBPNIHESD Kosi-Katarmal, Almora <i>Forest fire in the Indian central Himalaya: indicators and citizen science</i>
<b>Oral presentations</b>	<b>B. K. Das</b> , ICAR-CIFRI Kolkata <i>Health assessment of river Ganga through estimation of oxygen saturation level in water</i>
	<b>P.S. Chandrashekharaiiah</b> , RK. University, Rajkot, Gujarat <i>Chlorophyll fluorescence measurement: a biological indicator of heavy metal toxicity in algae</i>
	<b>D. Rama Rao</b> , P.R. Govt college (A) Kakinada, AP, India <i>Assessment of hydro chemical changes and study of underground contamination of various locations of water sources in Kkakinada old city east Godavari dt - AP, India</i>
	<b>S.V. Dhanwate</b> , Swami Muktanand College of Science Yeola <i>Manmad towns belonging in Maharashtra state during Normal days</i>
	<b>Gajendra Singh</b> , USAC Dehradun <i>Extent, abundance, threats and information gap on alpine medicinal and aromatic plants of western Himalaya, India: a review</i>
	<b>G.B. Kale</b> , G.S. Science, Arts and Commerce College, Khamgaon <i>Impact of highway development on tree cutting and biodiversity of Khamgaon area in Maharashtra</i>
	<b>Hemanta Meher</b> , Sambalpur University, Odisha <i>Physico-chemical characteristics of taladanda canal water in an around paradeep area, Odisha, India</i>
	<b>Harshada Joshi</b> , Mohanlal Sukhadia University, Rajasthan <i>Calcite solubilizing activity of exiguobacterium aquaticum cs6 isolated from marble slurry dumped in sukher, Udaipur, Rajasthan, India</i>
	<b>Pankaj Tewari</b> , Aarohi, Satoli, Nainital <i>Value chain promotion of chyura (Diploknema butyracea) for sustainable development in mountains: an opportunity for marginal farmers of Uttarakhand for sustaining livelihoods</i>
	<b>Rajesh Joshi</b> , GBPNIHESD, Sikkim Regional Centre, Pangthang <i>Integrated springshed management approach: linking science, policy, and practice for building environmental consciousness &amp; water sustainability in Himalaya</i>
<b>BEST POSTER AWARD PRESENTATION</b>	

15.00 – 18.00

Concurrent Poster Session –I (P01 – P85)

January 06, 2020

Invited Lectures/Oral Presentations

14.00–14.30

Venue- -----

Keynote Address

**Yu Mingjian**, College of Life Sciences, Zhejiang University

*Community assembly of subtropical forests and its response to disturbances in eastern China*

**TWO PARALLEL SESSIONS**

14.30 – 18.00

**Symposium I**

**Balancing Environmental Conservation and Sustainable Development in India**

Venue- -----

Invited Lectures

**M.G. Tewari**, Deoghar

*Loktak lake, a wetland of International importance - perspectives for conservation and management*

**R.C. Sundriyal**, GBPNIHESD Kosi-Katarmal, Almora

*Community forest management and livelihood in the Indian Himalaya: A case study from Uttarakhand*

**Asha Gupta**, Manipur University, Imphal

*Grasslands of national park, Manipur-threats and challenges of a floating wildlife habitat*

**Uma Melkania**, GBPUA&T, Pantnagar

*Regeneration status of protected and disturbed forests of Ranikhet, Uttarakhand (Kumaun Himalayas)*

**Sanjeev Kumar**, RCCF Jharkhand

*Sustainable forest management for biodiversity conservation and sustained livelihood*

	<i>option for rural people of Jharkhand</i>
	<b>Y. Naidoo</b> , University of KwaZulu-Natal, Durban, South Africa <i>Chemical composition of the essential oil from the leaves of Endostemon obtusifolius (E.Mey. ex Benth.) N.E.Br.</i>
	<b>S. K. Uniyal</b> , CSIR-IHBT Palampur <i>Communities for conservation: let the water flow</i>
	<b>Sunil Nautiyal</b> , ISEC Bangalore <i>Exploring prospect for delineation of field margin vegetation using RS and GIS</i>
	<b>I.D. Bhatt</b> , GBPNIHESD, Kosi-Katarmal Almora <i>Cultivation of medicinal plants in Chaudas valley: Linking with rural livelihood</i>
<b>Oral presentation</b>	<b>Saroj Kumar</b> , Babasaheb Bhimrao Ambedkar University, Lucknow <i>Seasonal variation among extracellular enzymatic activity (EEA) and their influence on the performance of Surface - flow Constructed Wetland Microcosm (CWM)</i>
	<b>Karobi Bhuyan Saikia</b> , Cotton University Assam <i>Conserving aquatic insects and its sustainable development: a perspective from its edible properties</i>
	<b>Kaveri Shukla</b> , CSJM University- Kanpur <i>Impact of copper sulphate on fresh water fish</i>
	<b>Meghna Talukdar</b> , St Xavier's College (Autonomous), Kolkata <i>Microbial load of ambient air vis-a-vis meteorological parameters in urban condition</i>
	<b>Nabajyoti Doley</b> , Mangaldai College Assam <i>Implementation of improved cultivation and advance retting exercise for jute -ICARE in Assam as pilot project: special reference to kharupetia D.P.C. in the year 2017-2018</i>
	<b>Prasanjit Mukherjee</b> , KKM College, Pakur <i>Study on conservation of Victoria lake and its aquatic biodiversity: A case study of Lohardaga, Jharkhand</i>
	<b>Radhashyam Muduli</b> , NTPC Ltd. Odisha <i>Global warming and climate change</i>
	<b>Sampurna Nand</b> , CSIR-NBRI Lucknow <i>Arsenic (As III &amp; As V) removal from water using biochar derived from sewage sludge</i>



14.00 – 18:00

**Symposium II**  
**Promoting Environmental Consciousness in developing India**

Venue- -----

<b>Invited Lectures</b>	<b>Anupam Dikshit</b> , University of Allahabad, Prayagraj <i>Management of environment through recycling of waste paper and plant fibres in handmade paper creating employment for rural people</i>
	<b>Surendra Singh Bargali</b> , Kumaun University Nainital <i>Microbial biomass phosphorus under different land use systems of Central Himalaya</i>
	<b>Harminder Singh</b> , LPU Punjab <i>Removal of Lead (II) ions using biopolymer-magnetic spinel ferrite composite</i>
	<b>Harendra K. Sharma</b> , Jiwaji University, Gwalior <i>A study on photocatalytic degradation of some specific dyes by using nanometalchalcogenides</i>
	<b>G. Panduranga Murthy</b> , MIT Mysuru <i>Algae: a potential natural feedstock for sustainable, renewable, eco-friendly and techno-economical bio-fuel for future- a case study</i>
	<b>S. Lalitha Nagesvari</b> , Fulbright Commission in India <i>Fulbright-Nehru Fellowship Opportunities in the U.S.</i>
<b>Oral presentation</b>	<b>Atul Kumar Agarwal</b> , CSIR-CBRI Roorkee <i>Environment-friendly rural housing technologies by CSIR-CBRI, Roorkee for development of rural India</i>
	<b>Md. Nazrul Islam</b> , Jawahar Lal Nehru College, Chakradharpur <i>Physico-chemical advantages of pyridine based polybenzimidazole membrane for polymer electrolyte membrane fuel cell</i>
	<b>Arup Mitra</b> , St. Xavier's College, Kolkata <i>Suitability of industrial sugarcane bagasse waste on production of oyster mushrooms</i>
	<b>Nimai Chandra Barui</b> , Bethune College, Bidhan Sarani, Kolkata <i>Diversity of mangrove plants in relation to palaeoenvironment during Holocene Period in Bengal Basin, India</i>
	<b>Ramasamy Venkitachalam</b> , Kongunadu Arts and Science College (Autonomous), Coimbatore <i>Prey preference by critically endangered vulture species in Moyar Valley, Tamil Nadu</i>

	<p><b>Ranjan Kumar Manna</b>, ICAR-CIFRI Barrackpore, Kolkata</p> <p><i>Planktonic bloom of Aulacoseria granulata in lower and estuarine stretch of river Ganga in relation to hydrological characteristics</i></p>
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<b>15.00 – 18.00</b>	<b>Concurrent Poster Session – II (P86 – P173)</b>
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<p><b>January 07, 2020</b></p> <p><b>Two parallel Session</b></p> <p><b>14.00 – 15.00</b></p> <p><b>Symposium I</b></p> <p><b>Balancing Environmental Conservation and Sustainable Development in India</b></p> <p><b>Venue- -----</b></p>	
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<b>Oral Presentations</b>	<p><b>Prashant K Srivastava</b>, Banaras Hindu University, Varanasi</p> <p><i>Genetic algorithm combined with least trimmed square regression for estimation of leaf chlorophyll content using hyperspectral radiometer data</i></p>
	<p><b>Kangkan Medhi</b>, Mangaldai College, Darrang, Assam</p> <p><i>Identification and characterization of natural dyes from Jatropha curcas, terminalia chebula, camellia sinensis and musa paradisiacal of Darrang district, Assam</i></p>
	<p><b>Kavita Sharma</b>, Shri Vaishnav Institute of Forensic Science Indore</p> <p><i>Spectrophotometric analysis of poorly water soluble drugs: an eco-friendly pharmaceutical application of hydrotropic solubilization technique</i></p>
	<p><b>Meenu Verma</b>, Kolhan University Chaibasa</p> <p><i>Impure aqua and environment</i></p>
	<p><b>Rakesh Mohan</b>, R N. College, Hajipur)</p> <p><i>Study of the awareness about AIDS/HIV among the students of R. N. College Hajipur Bihar</i></p>
	<p><b>U. Surendran</b>, CWRDM Kozhikode</p> <p><i>sustenance of healthy soil environment in humid tropical Kerala through nutrient budgeting using NUTMON –Model</i></p>
	<p><b>Shyam. S. Salim</b>, CMFRI Kochi</p> <p><i>Coastal vulnerability assessment, adaptation and mitigation opportunities across</i></p>

	<i>climate hotspots in Kerala, India</i>
	<b>Sneha Unnikrishnan</b> , BSARCI ST Chennai <i>Efficacy of marine isolate acinetobacter baumannii in textile dye degradation</i>
	<b>Parmesh Kumar</b> , IHS, Kurukshetra University, Kurukshetra <i>Diversity and seasonal variation of wetland birds in sacred wetlands of Kurukshetra, India</i>
<b>14.00 – 15.00</b>	
<b>Symposium II</b> <b>Promoting Environmental Consciousness in developing Ind</b>	
<b>Venue- -----</b>	
<b>Oral Presentations</b>	<b>S. Chhikara</b> , Maharshi Dayanand University, Rohtak <i>Bioadsorptive removal of Cr(VI) by immobilized fungal biosorbent in aqueous phase</i>
	<b>Manju Sundriyal</b> , USERC Dehradun <i>Livelihood Enhancement for Mountain Rural Women Farmers through Value Chain Promotion of Selected Crops (Basil, Rosemary and Chamomile) in Uttarakhand</i>
	<b>U. Surendran</b> , CWRDM Kozhikode <i>Sustenance of healthy soil environment in humid tropical Kerala through nutrient budgeting using NUTMON-model</i>
	<b>S. N. Pandey</b> , University of Lucknow Lucknow <i>Antioxidative responses of mustard grown in zinc- contaminated soil with the application of chelants</i>
	<b>Pragnya. S. Hangaragi</b> , SSCAS&RH Bangalore <i>Planning for devastating rivers flood control to maintain the environmental balance for sustainable development: a case study of Karnataka state</i>
	<b>S. R. Ratkalle</b> , SGVPCCE Khiroda <i>Environmental issues and challenges</i>
	<b>Shree Ganesh</b> , Bundelkhand University Campus Jhansi <i>Status of air quality in and around stone crusher at Jhansi Town, U.P. India</i>
	<b>Sachendra Kumar Tripathi</b> , P. G. College, Kanpur <i>Pinnales of river Ganga and their implications in Ganga water pollution</i>
	<b>J. Sornapriya</b> , Kongu Nadu Arts and Science College Coimbatore <i>Bio diversity of insects and behavioral study in periyanaickenpalayam village, Coimbatore district, Tamilnadu, india</i>

	<p><b>M. Jaya Kumar Jacob</b>, ASIST Paritala</p> <p><i>Agro-ecosystems sustainability in India by adopting the eco-consciousness of agricultural farming practices of Israeli irrigation</i></p>
	<p><b>Nimisha Jadon</b>, SSEC, Jiwaji University, Gwalior</p> <p><i>Electrochemical Sensors for Trace Determination of Pollutants</i></p>
<p><b>General Discussion and Recommendations</b></p>	

<b>SECTION</b>		<b>INFORMATION AND COMMUNICATION SCIENCE AND TECHNOLOGY (INCLUDING COMPUTER SCIENCE)</b>
<b>Sectional President</b>	:	<b>Prof. (Dr.) Md. Nurul Hoda</b> Director, Bharati Vidyapeeth's Institute of Computer Applications and Management (BVICAM), New Delhi – 110063.
<b>Sectional Secretary</b>	:	<b>Dr. V. Manjunath</b> Associate Professor, Dept. of Agril. Statistics, Applied Mathematics and Computer Science, College of Agriculture, UAS, GKVK, Bangalore – 560065.
<b>Sectional Recorder</b>	:	<b>Dr. Ajay Kumar Thakur,</b> Associate Professor, CM Science College, Darbhanga (Bihar)
<b>January 04, 2020</b>		
<b>14:00 – 17:00</b>		
Venue	:	
<b>Presidential Address</b>	:	<b>Md. Nurul Hoda,</b> Director, Bharati Vidyapeeth's Institute of Computer Applications and Management (BVICAM), New Delhi – 110063  <i>ICT for Inclusive Development</i>
<b>Key Note Address</b>	:	<b>A. K. Nayak,</b> President, Computer Society of India & Director, Indian Institute of Business Management (IIBM), Patna (Bihar)  <i>ICT for Inclusive Growth in India</i>
<b>Young Scientist Award Presentations</b>	:	<b>Anwasha Mukherjee</b> Department of Computer Science and Engineering, Indian Institute of Technology Kharagpur, Kharagpur, West Bengal – 721 302.  <b>Debamita Kumar</b> Machine Intelligence Unit, Indian Statistical Institute, 203, B. T. Road, Kolkata – 700 108.  <b>Hanumant Ramdas Gite</b> Department of Computer Science and IT, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (MS)- 431 004.  <b>Gandikota Ramu</b>

	Department of CSE, Institute of Aeronautical Engineering, Dudigal, Hyderabad – 500 043.
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<b>SECTIONAL COMMITTEE ELECTION</b>
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**January 05, 2020**

**14:00 – 17:30**

Venue

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**14.00 – 16.00**

**Symposium**

**Invited Lectures**

:

**R. R. Deshmukh,**

Dept. of Computer Science, Aurangabad (Maharashtra)

*Analyzing the Various Types of Objects Using Hyperspectral Remote Sensing*

:

**S. N. Singh,**

Professor, PG Dept. of Physics, CM Science College, Darbhanga (Bihar)

*ICT Applications for Accelerating Economic Growth*

**16.00 – 17.45**

**Invited Lectures/ Oral Presentations**

**Invited Lectures**

:

**Arun Kumar Singh,**

Professor, Post Graduate Dept. of Physics, L. N. M. University, Darbhanga (Bihar)

*Digital India for Rural Growth*

**Oral Presentations**

:

**Chandan Kumar Behera,**

SCSE, VIT, Bhopal.

*A Generic Code Obfuscator framework for Software Protection*

:

**Deepshikha Mehta,**

Department of Electronics and Computer Science, Rashtrasant Tukadoji Maharaj Nagpur University, University Campus, Nagpur, Maharashtra

*Machine Learning based Assessment of Students' Attention in Classroom*

:

**Saurabh Jain,**

Shri Vaishnav Vidyapeeth, Indore (MP)

*EE-WCA: Energy Efficient Weighted Clustering Algorithm for Wireless Sensor Network*

:

**Raunak Nandy,** TCS Kolkata

*Identification and Impact of Wormhole attack in MANET*

:

**Moumita Mazumdar,**

CSIR-National Institute of Science Communication and Information Resources, New Delhi

*Changing Weather and Alerting Systems: A Patent Look towards Communication*

:

**Muhammad Suleiman,**

SCA, Lovely Professional Univ, Phagwara

		<i>Application of Cloud Computing in Education</i>
	: <b>Avinash Bhoyar,</b> Central Forensic Science Laboratory, Directorate of Forensic Science Services, MHA, Govt. of India, Hyderabad	Blockchain Technology for Modern Cyber Forensics
	: <b>Supreetha Gowda H.D.,</b> Department of Computer Science, University of Mysore	<i>Robust Deep CNN Architecture for Person Verification System using Multimodal Biometric Approaches</i>
	: <b>Namit Gupta,</b> Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore	<i>Efficient Design of Novel Reversible Feynman Gate in Quantum Dot Cellular Automaton with Optimized Average Output Polarization and Energy Dissipation</i>
	: <b>Shivani Yadav,</b> Maharshi Dayanand University, Rohtak (Haryana)	<i>Measure the effectiveness of software quality parameters for Component Based Software using different quality models</i>
	: <b>Priyadarshini,</b> Chanakya National Law University Patna	<i>Determining Women's Role in Rural Development, Planning and Management in Context to ICT</i>
	: <b>Raghul M R,</b> Mathematical and Information Sciences, Academy of Scientific and Innovative Research (AcSIR)	<i>Prominent Science Pages on Facebook: An Exploratory Study</i>

**BEST POSTER AWARD PRESENTATION**

**15.00 – 17.30**

**Concurrent Poster Session –I**



**January 06, 2020**

<b>14:00 – 17:30</b>	:	
Venue	:	
<b>14.00 – 16.00</b>	<b>Symposium</b>	
<b>Invited Lectures</b>	:	<b>K. V. Kale,</b> BAM Univ., Aurangabad.  <i>Geospatial Technology for Agricultural Applications</i>
	:	<b>Sundaresan Muthukrishnan,</b> Professor and Head , Department of Information Technology, School of Computer Science and Engineering, Bharathiar University, Coimbatore - 641046, Tamilnadu, India  <i>Improved Compression Techniques for Mobile Apps.</i>
	:	<b>A. K. Saini,</b> Professor and Director (IQAC), GGSIP University, New Delhi  <i>Sustainable ICT Applications for Rural Transformation</i>
<b>Invited Lectures/ Oral Presentations</b>		
<b>Invited Lectures</b>	:	<b>D. P. Das,</b> Associate Professor, Dept. of Electronics, BRAB University, Muzaffarpur (Bihar)
<b>Oral Presentations</b>	:	<b>Sumit Bhatt,</b> Computer Science, Nimawat Public School, Fatehpur Shekhawati  <i>Artificial Intelligence: Genre for the Next Era Rural Development</i>
	:	<b>Ankit Bhattacharya,</b> TCS, Chennai  <i>Automatic detection of features in retinal fundus images for non proliferative diabetic retinopathy</i>
	:	<b>Aziz Makandar,</b> Karnataka State Akkmhadevi Women’s University, Vijayapura  <i>A Correlative study on noise density and de-noising techniques used for the MRI images of Alzheimer’s disease</i>
	:	<b>Ratul Datta,</b> Department of Journalism and Mass Communication, University of Calcutta, Govt. Officer, Information & Cultural Affairs Dept, Govt. of WB.  <i>Role of science communication for promoting environmental news for rural development: An empirical study in India</i>
	:	<b>Tavishi Kaushik,</b>

		Amrita School of Engineering, Bangalore, Karnataka- 560035, INDIA <i>Crop Detection and Classification from Aerial and Satellite Images using Deep Learning Neural Networks</i>
	:	<b>Satinder Bal Gupta,</b> Indira Gandhi University, Meerpur, Rewari, Haryana <i>Fault Prediction in Object Oriented Software Systems</i>
	:	<b>Sadhana Kumari,</b> National Institute of Technical & Vocational Education, Patna, Bihar <i>Security Solutions for Computer Networking</i>
	:	<b>Radhika Menon,</b> Amrita School of Business, Amrita Vishwa Vidyapeetham, Coimbatore, Tamil Nadu <i>Empowering Tribal Populations through Technology-based &amp; Targeted Interventions in Health Awareness and Education</i>
	:	<b>H. Ravisankar,</b> Principal Scientist <i>Knowledge Based System for Tobacco Weed Management</i>
	:	<b>Sailaja Pasupuleti</b> Data Science in Education
	:	<b>P.M. Natarajan,</b> Former Director – Centre for Climate Change, Periyar Maniammai University <i>Climate Change Threat on Indian Water Resources</i>
<b>Concurrent Poster Session –II</b>		

**January 07, 2020**

<b>14:00 – 15:00</b>		
Venue		
<b>14.00 – 15.00</b>	<b>Invited Lectures/ Oral Presentations</b>	
Invited Lectures	:	<p><b>Ujjwal Verma,</b> Department of Electronics and Communication Engg, Manipal Institute of Technology, Manipal, Karnataka</p> <p><i>Deep Learning in Satellite Image Analysis: Current Status, Trends and Challenges</i></p>
	:	<p><b>Md. Alimul Haque</b> Dept. of Computer Science, V. K. S. University, Ara, Bihar</p> <p><i>Comparative Study on OSNs Threats and their Classification</i></p>
	:	<p><b>Mukti Prasad</b> Technology Information Forecasting and Assessment Council (TIFAC), New Delhi</p> <p><i>Technology Vision 2035: Information and Communication Technology</i></p>
<b>Oral Presentations</b>	:	<p><b>Aziz Makandar,</b> Karnataka State Akkamahadevi Women’s University, Vijayapura, India</p> <p><i>Preprocessing Steps in the Diagnosis of MRI images in Neurological Disorders</i></p>
	:	<p><b>Anil Kumar Jain,</b></p> <p><i>Kumudendu Encryption Scheme: An Efficient and Versatile Indian Cryptographic System</i></p>
	:	<p><b>Boopathy D.,</b> Department of Information Technology, Bharathiar University, Coimbatore, Tamil Nadu</p> <p><i>Multi-dimensional Encryption Techniques to Protect the Video Files from Security Threats</i></p>
	:	<p><b>Shailini Dixit,</b> Asstt.Regional Director (IGNOU), New Delhi</p> <p><i>Role of ICT in Development of Healthcare in Rural India</i></p>
	:	<p><b>Rajkumar Yadav,</b> Indira Gandhi University, Meerpur, Rewari, Haryana</p> <p><i>A Novel Data Hiding Scheme Using Pixel Interpolation in Spatial Domain</i></p>

	:	<p><b>S. Sridevi,</b> Dept. of IT, Bharathiar Univ, Coimbatore</p> <p><i>Improving Classification based Accuracy for IVUS Images based on Feature Extraction Techniques</i></p>
	:	<p><b>B K Chaudhuri,</b> Jadavpur University, Kolkata</p> <p>Importance of entropy and information in Cell to Cell Communication</p>
	:	<p><b>Meghna Manjaree,</b> Manipal Institute of Technology, Manipal</p> <p><i>Approximation of weight through Digital 2-D image of object</i></p>
	:	<p><b>Leena H.U.,</b> Dept. of MCA, Siddaganga Institute of Technology, B.H. Road, Tumakuru 572103, Karnataka</p> <p><i>GIS and Cloud Integrated Online Soil Fertility Management System</i></p>
<b>General Discussion and Recommendations</b>		

SECTION		MATERIALS SCIENCE
<b>Sectional President</b>		<b>Dr. S. Srikantaswamy</b> Director, College Development Council, Co-ordinator, CMST, University of Mysore, Mysuru – 570 006
<b>Sectional Secretary</b>		<b>Prof. Puttaswamy</b> Professor, Dept. of Chemistry, Central College Campus, Bangalore University, Bangalore -560001
<b>Sectional Recorder</b>		<b>Prof. Guduru Prasad</b> Professor, Department of Physics, Osmania University, Hyderabad, Telangana 500 007
<b>January 04, 2020</b>		
<b>14:00 – 17:00</b>		
<b>Venue</b>	:	University of Agricultural Sciences, Gandhi Krishi Vignana Kendra, Bengaluru – 560 065
<b>Presidential Address</b>	:	<b>S. Srikantaswamy</b> Director, College Development Council, Co-ordinator, CMST, University of Mysore, Mysuru – 570 006  <i>Synthesis, Characterization, Enhanced Photocatalytic Activity and Toxicity studies of Nanomaterial composites</i>
<b>Platinum Jubilee Lecture</b>	:	<b>Ashok M. Raichur</b> Professor, Department of Materials Engineering, Indian Institute of Science, Bangalore - 560 012  <i>Materials in Medicine: A Perspective on Nanomaterials for Improving Efficacy and Bioavailability of drugs</i>
<b>Young Scientist Award Presentations</b>	:	<b>Ambrish Kumar Srivastava</b> Department of Physics, Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur – 273 009.  <b>Satyanarayan Patel</b> Department of Mechanical Engineering, Malaviya National Institute of Technology Jaipur, Jaipur, Rajasthan – 302 017.  <b>Jayesh S</b> Department of Mechanical Engineering, School of Engineering, Cochin University of Science and Technology, Kochi, Kerala – 682 022.  <b>Abhilash M. R</b> Department of Studies in Environmental Science, University of Mysore,

Mysuru – 570 006.

**Sudipta Biswas**

Department of Physics,  
Indian Institute of Technology Kharagpur, Kharagpur – 721 302.

**Utkarsh Kumar**

Nanomaterials and Sensors Research Laboratory, Department of Physics,  
Babasaheb Bhimrao Ambedkar University, Lucknow – 226 025.

**SECTIONAL COMMITTEE ELECTION**

**January 05, 2020**

**14:00 – 18:30**

Venue	University of Agricultural Sciences, Gandhi Krishi Vignana Kendra, Bengaluru – 560 065
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**14:00 – 16.30 Symposium**

**Materials Science and Technology for Rural Development – Environment, Health and Energy**

**Keynote Talk:**

**:** **Gopinathan Sankar**  
Department of Chemistry, University College London, 20 Gordon Street,  
London, WC1H 0AJ.

*Nano Porous Materials and their wide range of applications*

**:** **Kohei SOGA**  
Department of Mater. Sci. and Tech., Tokyo Univ. of Sci., Katsushika,  
Tokyo, JAPAN

*Materials Design and Processing for Near Infrared Biomedical Photonics  
with Transparency*

**Invited Lectures**

**:** **B. Neppolian**  
Energy & Environmental Remediation Lab., SRM Research Institute, SRM  
Institute of Science and Technology, Kattankulathur, Chennai - 603 203

*Ultrasound Assisted Synthesis of Nano Materials for Energy and  
Environmental Remediation*

**:** **R. Jayavel**  
Centre for Nanoscience and Technology & Crystal Growth Centre, Anna  
University, Chennai - 600 025

*Hierarchically Structured Two Dimensional Nanocomposite Materials for  
Energy Storage Applications*

**Oral Presentations**

**:** **N. Shanthi**  
*Band Structure Study of Half Heusler Alloy ZrNiSn And Effect of Pd Doping*

**:** **M. B. Deore**  
*Reparation and Characterization of Cdo Thin Films By Spray Pyrolysis  
Technique*

**:** **Harish K. Dubey**  
*Superconducting Traits Exhibited By Sbsi Crystals*

**:** **Soma Mukherjee**

		<i>Structural Characterization And Electrical Transport Properties of <math>X\text{LaMnO}_3</math> Doped <math>\text{YV}_2\text{O}_5-(100-Y)\text{P}_2\text{O}_5</math> Glass And Glass-Ceramic Nanocomposites</i>
	:	<b>D. N. Mahato</b> <i>Effect of Electron - Phonon Interaction on the Superconductivity in Metals, Alloys and Polymers</i>
	:	<b>Sunil Magan More</b> <i>Tri-Hybrid Energy Generation Method of Microbial Fuel Cell, Solar and Wind Energy</i>
	:	<b>R. P. Patil</b> <i>Lanthanum Doped Barium Titanate As <math>\text{NH}_3</math> Gas Sensor at Room Temperature</i>
	:	<b>Lakshmidevi V</b> <i>Absorption Spectra of DBSA Doped Polyaniline in Different Organic Solvents</i>
	:	<b>R. K. Shukla</b> <i>DFT Analysis of Interaction Between A Carbon Nanotubes and Anti-Cancer Drugs</i>
	:	<b>Mohd. Faheem Khan</b> <i>Plant Sensors: Matter Sensing Plants</i>
	:	<b>Apurba Kumar Nayek</b> <i>Ferromagnetic Property of Cu Doped ZnO: Theoretical Approach</i>
	:	<b>Ashish Kumar</b> <i>Nanotechnology for Remediation of Agra Water Supply</i>

**BEST POSTER AWARD PRESENTATION**

**Concurrent Poster Session –I (PP – 01 TO PP - 35)**



**January 06, 2020**

**14:00 – 19:00**

Venue

University of Agricultural Sciences, Gandhi Krishi Vignana Kendra,  
Bengaluru – 560 065

**14.00 – 17:00**

**Symposium**

**Keynote Talk**

**: Ganapati D. Yadav**  
Vice-Chancellor and R.T. Mody Distinguished Professor, Tata Chemicals  
Darbari Seth Distinguished Professor of Leadership and Innovation, J.C.  
Bose National Fellow, Institute of Chemical Technology, Mumbai- 400 019  
  
*Novel Catalytic Selectivity Engineering in Valorisation Of Biomass, CO<sub>2</sub>  
And Water into Chemicals, Materials and Energy*

**: Ashok K. Ganguli**  
Department of Chemistry, Indian Institute of Technology, Delhi, New Delhi  
110 016  
  
*Design of Nanostructures for Photoelectrochemical Applications*

**Invited Lectures**

**: Ranjani Viswanatha**  
Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur,  
Bangalore, India  
  
*Nanomaterials: The Journey from Laboratory to Industry*

**: Masakazu Umezawa**  
Department of Mater. Sci. and Tech., Tokyo Univ. of Sci., Katsushika,  
Tokyo, Japan  
  
*Functional Bio imaging for Deep Tissues using Over-1000-Nm Near-  
Infrared Fluorescent Materials*

**: Kyohei Okubo**  
Department of Mater. Sci. and Tech., Tokyo Univ. of Sci., Katsushika,  
Tokyo, Japan  
  
*Quantitative Visualization of Lipid Distribution in Mouse Livers by using  
Near-Infrared Hyperspectral Imaging*

**Oral Presentations**

**: S. K. S. Parashar**  
  
*BZT-BCT Lead Free Piezoelectric Nanomaterial for Microwave Device  
Application*

**: S. R. Wadgane**  
  
*Structural and Magnetic Characteristics of Cr – Zn Substitution In Cobalt  
Ferrite With Ferroelectric Na<sub>0.5</sub>Bi<sub>0.5</sub>TiO<sub>3</sub> Composite*

	:	<b>Jancy Ayyaswamy</b> <i>Technology Roadmap on Materials: Technology Vision 2035</i>
	:	<b>N. Dhananjaya</b> <i>Environmental Friendly Synthesis and Characterization of Chonemorphafragrans Leaf Extract Mediated ZnO/Ag Nanostructures for Luminescence Applications</i>
	:	<b>Naorem Santakrus Singh</b> <i>Flexible ZnO/PANI Heterojunction Diode</i>
	:	<b>B. Vijaya kumar</b> <i>Electron Transport Studies in CuO Doped Borophosphate Glasses</i>
	:	<b>Sumitra Phanjoubam</b> <i>Effect of Sintering Temperature on the Properties of Cobalt Substituted Lithium Ferrites</i>
	:	<b>S. K. Nomita Devi</b> <i>Enhanced Photocatalytic Activity of Doped ZnO Nanoparticle</i>
	:	<b>U. Sasikala</b> <i>Effect of Low Molecular Weight Plasticizer (PEG) on PEO+PVP Based Polymer Blend Electrolyte Films</i>
		<b>Parvathi Patil</b> <i>Fluorescent Conjugated Polymer Sensors for the Revealing of Nitroaromatics</i>
		<b>Madhavrao K. Deore</b> <i>Studies on Physical, Electrical and Gas Sensing Performance of Cu- Doped ZnO Thick Film</i>
		<b>A. S. Manjunatha</b> <i>Synthesis of SnO<sub>2</sub>-WO<sub>3</sub> Nanocomposite Using and its Application for Photocatalyst: A Green Approach</i>
		<b>Nirmala Vaz</b> <i>Exploration of OSO<sub>4</sub> And RuCl<sub>3</sub> Catalysis on Oxidation-Kinetics of Theophylline Drug with Alkaline Chloramine-B: A Mechanistic Study</i>
		<b>P. P. Swain</b> <i>A Comparative Study of Crystallographic and Thermal Behavior of Green SPANI Composites and Green Spani Nanocomposites Prepared from Natural Fibers of Musa Sapientum and Saw Dust</i>
		<b>Nandkishor B</b>

		<i>Synergistic Effects of TiO<sub>2</sub> Nanocomposite Starch-Based Biodegradable Copolymer as Plant Growth Regulator</i>
		<b>Suman Chatterjee</b> <i>Sensor Elements Made From ZnO Nanorods for Determination of Quality of Made Tea</i>
		<b>Ashok G. Matani</b> <i>Graphene and Aluminium Batteries and Nanomaterials in Electric Vehicles : Potentialities and Prospects in Indian Automobile Industries</i>
<b>Concurrent Poster Session –I (PP – 36 TO PP - 70)</b>		

**January 07, 2020**

**14:00 – 15:00**

Venue

University of Agricultural Sciences, Gandhi Krishi Vignana Kendra,  
Bengaluru – 560 065

**14.00 – 15.00**

**Invited Lectures**

**Invited Lectures**

:

**B. N. Chandrashekar**

Southern University of Science and Technology, Shenzhen, CHINA

*Green Transfer Method of CVD Grown Graphene for Transparent and Flexible Electrodes*

:

**Madala Suguna**

Department of chemistry, Vemu Institute of Technology, Kothakota,  
Chittoor, Andhra Pradesh

*Sorption of Chlorophenol from Aqueous Medium using Agricultural Waste Material*

**Oral Presentations**

:

**Kalla Ramamohan**

*Electrical and Thermal Studies of Plasticized Polymer Blend Electrolyte Films*

:

**Ranjit Thapa**

*Carbon Allotropes as Anode Material for Lithium-Ion Batteries*

:

**Mahesh Kumar Ravva**

*Theoretical Design and Development of Non-Fullerene Acceptors for Organic Solar Cells Applications*

**General Discussion and Recommendation**

SECTION		MATHEMATICAL SCIENCES (INCLUDING STATISTICS)
<b>Sectional President</b>		<b>Dr. Shriram K. Nimbhorkar,</b> Ex-Professor, Department of Mathematics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad 431004
<b>Sectional Secretary</b>		<b>Dr. K. N. Krishnamurthy,</b> Professor and Head, Department of Agriculture Statistics, Applied Mathematics and Computer Science, University of Agriculture Sciences, GKVK Bangalore
<b>Sectional Recorder</b>		<b>Dr. Anil Kumar Vashisth,</b> Professor of Mathematics, Kurukshetra University, Kurukshetra
<b>January 04, 2020</b>		
14:00 – 17:00		
<b>Venue</b>	:	
<b>Presidential Address</b>	:	<b>Shriram K. Nimbhorkar,</b> Ex-Professor, Department of Mathematics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad 431004 <i>Extending elements and their generalizations in certain modular lattices</i>
<b>Platinum Jubilee Lecture</b>	:	<b>Vinayak V. Joshi,</b> Professor, Department of Mathematics, Savitribai Phule Pune University, Pune 411007 <i>On zero-divisor graphs of ordered sets and applications to graphs associated with rings</i>
<b>Invited Lectures</b>	:	<b>Shakir Ali,</b> AMU Aligarh <i>Characterizations of additive mappings in associative rings</i>  <b>Rashmi Bhardwaj,</b> Guru Gobind Singh indraprashta University, Delhi <i>Chaotic simulation of ferric oxide (<math>Fe_3O_4</math>) nanoparticle</i>  <b>Mrs. Shraddha Ingale</b> New Arts Commerce and Science College, Ahmadnagar <i>Data science and fuzzy logic</i>
<b>Presentation by USIEF</b>		Information session on Fulbright-Nehru and other Fulbright fellowship opportunities
<b>SECTIONAL COMMITTEE ELECTION</b>		

January 05, 2020

14:00 – 18.00 Venue

**Symposium :Recent trends in Discrete Mathematics**

**Symposium**

**B. N. Waphare,**

Savitribai Phule Pune University, Pune 411007

*Hypercube Structures and Applications.*

**V. S. Kharat**

Savitribai Phule Pune University, Pune 411007

*Deletable elements and forbidden configurations in lattices*

**M. M. Pawar,**

S. S. V. P. S's. L. K. Dr. P. R. Ghogrey Science Ccollege, Dhule

*Adjunct operation of posets, colouring and enumeration*

**Meenakshi Wasadikar,**

Ex-Professor of Mathematics,

Dr. Babasaheb Ambedkar Marathwada University,

Aurangabad 431004

*Generalizations of prime ideals in commutative rings*

**Aparna Lakshmanan,**

St. Xevir College for Women, Aluva, Kerala

**Invited Lectures**

**Invited Lectures**

**Robert Haki,**

Institute of Mathematics, Academy of Sciences of the Czech Republic, Brno, Czech Republic

*Existence, uniqueness and multiplicity of periodic solutions to the differential equations with singularities*

**Nandulal Bairagi**

Jadavpur University, Kolkata

*Infection spreading and recovery in a square lattice with various initial spatial distributions of infected patches*

**Shishir Gupta,** IIT (ISM), Dhanbad

*Numerical methods, construction and application of Lozenge diagram for interpolation*

**Anil K. Vashisth**

Kurukshetra University, Kurukshetra

*Mathematical model for static deformation of earth's crust caused by seismic and heat sources*

**January 05, 2020**

**14:00 – 18.00**

Venue

**Symposium**

**Invited Lectures**

**Recent trends in Discrete Mathematics**

**B. N. Waphare,**  
Savitribai Phule Pune University, Pune 411007

**V. S. Kharat**  
Savitribai Phule Pune University, Pune 411007

**Aparna Lakshmanan,**  
St. Xevir College for Women, Aluva, Kerala

**M. M. Pawar,**  
S. S. V. P. S's. L. K. Dr. P. R. Ghogrey Science College, Dhule,  
Dhule-424005 (Maharashtra)

**Meenakshi Wasadikar,**  
Ex-Professor of Mathematics, Dr. Babasaheb Ambedkar Marathwada  
University, Aurangabad 431004

**Invited Lectures**

**Robert Hakl,**  
Institute of Mathematics,  
Academy of Sciences of the Czech Republic, Brno, Czech Republic

**Nandulal Bairagi**  
Jadavpur University, Kolkata

**Anil K. Vashisth**  
Kurukshetra University, Kurukshetra -

**BEST POSTER AWARD PRESENTATION**

**Concurrent Poster Session –I**

January 06, 2020

14:00 – 18.00 Venue

Invited Lectures

Invited Lectures

**M. Xavier James Raj.** Head, Orbital Analytic Section (Rtd.),  
Vikram Sarabhai Space Centre, ISRO Thiruvananthapuram  
*Effectiveness of ks elements in orbit prediction using earth's gravity,  
drag and solar radiation pressure*

**Veena Sharma,** Himachal Pradesh University, Shimla  
*Role of rheology on thermal convection inferofluids*

**Sarita H. Thakar**  
Shivaji University, Kolhapur  
*Mathematical analysis of motion of artificial satellites*

**K. N. Krishnamurthy,**  
University of Agriculture Sciences, GKVK  
Bangalore  
*Algebraic and geometric bases of principal components- an  
overview*

Oral Presentations

**Yogita S. Patil,** Dr. Babasaheb Ambedkar Marathwada University,  
Aurangabad  
*On semi-essential and weak essential ideals of a lattice*

**Vidya S. Deshmukh,** Dr. Babasaheb Ambedkar Marathwada  
University, Aurangabad  
*Realizability of some graphs as the essential element graph of a  
lattice*

**Megha Goyal,** I. K. Gujral Punjab Technical University, Jalandhar,  
Main Campus, Kapurthala  
*Frobenius partitions and tenth order mock theta functions*

**K. Somaiah,** Kakatiya University, Warangal.  
*Inhomogeneous and attenuation waves in a rotating micropolar  
elastic solid*

**Basavarajaiah D. M. and Narasimhamurthy B.** Karnataka  
Veterinary Animal and Fisheries Sciences University, Bidar.  
*Risk assessment of real time stroke data by Bayesian emulator  
approach*



**January 07, 2020**

**Venue  
14.00-15.00**

**Oral Presentations**

**General Discussion and Recommendations**

SECTION		MEDICAL SCIENCES
<b>Sectional President</b>	:	<b>Dr. Deep Narayan Srivastava</b> , Professor, Department of Radiodiagnosis, All India Institute of Medical Sciences (AIIMS), New Delhi.
<b>Sectional Secretary</b>	:	<b>Dr. K.T. Chandrashekar</b> , Assistant Professor, Department of Anatomy, Mysore Medical College & Research Institute, Irvin Road, Mysuru-570 001, E-mail : ktcsanat@gmail.com
<b>Sectional Recorder</b>	:	<b>Dr. Sujata Maiti Choudhury</b> , Professor & Head, Department of Human Physiology, Vidyasagar University, Midnapore, West Bengal
<b>January 04, 2020</b>		
<b>14:00 – 17:00</b>		
Venue	:	
<b>Presidential Address</b>	:	<b>Deep Narayan Srivastava</b> , Professor, Department of Radiodiagnosis, All India Institute of Medical Sciences (AIIMS), New Delhi. <i>Role of Interventional Radiology treatments in Rural India</i>
<b>Platinum Jubilee Lecture</b>	:	<b>Santasabuj Das</b> , Scientist F, ICMR-National Institute of Cholera and Enteric Diseases, Kolkata. <i>So much yet so little: Studies on an age-old human pathogen Salmonella Typhi</i>
<b>Foregion Invitee</b>	:	<b>Animesh Dhar</b> , Associate Professor, Cancer Biology and Molecular and Integrative Physiology, Kansas University Medical Center, Kansas City, Kansas, USA <i>Super-Enhancers, Cluster of Genes, Targeted by Novel Natural Compounds Derived from Unani/Ayurvedic Medicine in Pancreatic Cancer (PDAC)</i>
<b>Invited Lectures</b>	:	<b>Raghavendra V Kulkarni</b> , Professor, BLDE University, Karnataka
<b>SECTIONAL COMMITTEE ELECTION</b>		

**January 05, 2020**

**14:00 – 16:00**

Venue

:

**14.00 – 16.00**

**Symposium: I**

**Contemporary research in medical and allied sciences for rural India**

**Keynote address**

:

**Manoj Chakravorty**, Past President, ISCA  
*Overview about the topic of symposium*

**Invited Lectures**

:

**Amar K Chandra**, Department of Physiology, University of Calcutta, Kolkata  
*Bamboo Shoots consumed by rural population in North east India impairs thyroid hormone synthesis through disruption of key cellular and molecular components involved in hormonogenesis*

:

**Sujata Maiti Choudhury**, Biochemistry, Molecular Endocrinology and Reproductive Physiology Laboratory, Department of Human Physiology, Vidyasagar University, Midnapore, West Bengal  
*BSA surface-modified silver nano formulated chlorogenic acid: A promising candidate against leukemia and lymphoma*

:

**Atis kumar Chattopadhyay**, Faculty Council of Science, Jadavpur University, Kolkata, West Bengal  
*Supplementation of seed dust of vicia faba and sesame ameliorates high lipid diet-induced dyslipidemia in rats*

:

**Chandradipa Ghosh**, Department of Human Physiology Vidyasagar University, Medinipur, WB.  
*Assessment of anti-biofilm potential of certain phyto-extracts on multi-drug resistant Staphylococcus aureus*

**Siddharth P. Dubhashi**, Department of Surgery, Mahatma Gandhi Mission Institute of Health Sciences (MGMIHS), Navi Mumbai  
*Gandhian Values for Rural Health*

**Symposium : II**

**Occupational health and safety in healthcare settings in rural India**

**Invited Lectures**

:

**Pasupuleti Sreenivasa Rao**, Department of Biochemistry Narayana Medical College and Hospitals Nellore  
*New age innovative strategies to identify and design novel drugs for cancer.*

:

**Ranabir Pal**. Department of Community Medicine, MGM Medical College and Hospital, Kishanganj.  
*Untold story: Occupational injury of Agricultural workers*

:

**Soumendra Darbar**. Department of Pharmaceutical Technology,

		Jadavpur University, Raja S C Mallick Road, Kolkata. <i>Safe and symptomatic medicinal use of surface-functionalized Mn<sub>3</sub>O<sub>4</sub> nanoparticles for hyperbilirubinemia treatment</i>
<b>Oral presentations</b>	:	<b>Deotima Sarkar</b> , Department of Physiology, University of Calcutta, Kolkata <i>Flavonoids/Polyphenols induced cellular and molecular changes in thyrocytes</i>
	:	<b>BK Bandre</b> , Director, Indore School of Yoga, Indore. Selected yoga practices to cure allergy and Asthma in Rular India
	:	<b>Tapas Kumar Sur</b> , Department of Pharmacology, I.P.G.M.E & R <i>Development and Intervention of Heart Revival in the Management of Cardiovascular Diseases</i>
	:	<b>Supriya Singh</b> , 14/18 A Chowbaga Road, Kolkata <i>Direct action of different potencies of Hepar sulphur on Staphylococcus aureus – an in vitro study</i>
<b>BEST POSTER AWARD PRESENTATION</b>		
<b>Concurrent Poster Session –I (A01 – A57)</b>		

**January 06, 2019**

<b>14:00 – 16:00</b>		
Venue	:	
<b>14.00 – 16.00</b>	<b>Symposium : I</b>	
<b>Contemporary research in medical and allied sciences for rural India</b>		
<b>Invited Lectures</b>	:	<b>Kumar Venkitanarayanan</b> , University of Connecticut, Storrs, CT, USA.. <i>Antivirulence Strategy for Controlling Clostridium difficile Infection</i>
	:	<b>Saurabh Satija</b> School of Pharmaceutical Sciences & Division of Research & Development, Lovely Professional University, Phagwara, Punjab, 144411 <i>Hypoxia inducible factor (HIF) using liposome-encapsulated perfluorocarbons: A novel therapeutic strategy for cancer</i>
<b>Oral presentation</b>	:	<b>Sandip Kumar Sinha</b> , Dept of Human Physiology with Community Nutrition, Vidyasagar University, Paschim Medinipur, WB <i>Protective role of soluble dietary fibre (Fructan) and ZnO nanoconjugate against nicotine induced cardiac rhythms: An electroencephalography study</i>
	:	<b>Mukul Bajpai</b> , Department of Microbiology, St. Xavier's College(Autonomous)Kolkata. <i>Prevelence of IGE Hypersensitivity in North East Region of India And Its Clinical Significance</i>
	:	<b>Anjali Yadav</b> , Centre of Science and Society, Institute of Interdisciplinary Studies (IIDS), University of Allahabad, Prayagraj. <i>Menstrual Health And Management: Improving Quality of Life of Rural India</i>
	:	<b>Thoudam Bedita Devi</b> , Department of Anatomy Sikkim Manipal Institute of Medical Sciences, Gangtok, <i>Secular Trend in Nasio-facial Anatomy of Meitei Males of Manipur</i>
<b>Symposium : II</b>		
<b>Occupational health and safety in healthcare settings in rural India</b>		
<b>Invited Lectures</b>	:	<b>Prakah Chandra Dhara</b> and Piyali Sengupta, Dept. of Human Physiology Vidyasagar University, Midnapur, WB. <i>Comparison of physiological and health related parameters of elderly persons between rural and urban areas</i>  <b>Atis Chattapadhyay</b> , Principal Secretary, Faculty council of PG and UG studies in science, Jadavpur University,, Kolkata-700032 <i>Supplementation Of Seed Dust Of Vicia Faba And Sesame Ameliorates High Lipid Diet-Induced Dyslipidemia In Rats</i>

		<p><b>Saumik Das</b>, Department of ENT, Medical College, Kolkata</p> <p><i>The Sound of Silence</i></p>
<b>Oral presentation</b>	:	<p><b>S.Jayachandran</b>. Department of Oral Medicine and Radiology, Tamil Nadu Govt. Dental College and Hospital, Chennai</p> <p><i>Recent Advances In Diagnosis of Oral Potentially Malignant Disorders and Oral Cancer</i></p>
	:	<p><b>Suriyakumari</b>. Sri ManakulaVinayagar Medical College &amp;Hospital, Madagadipet, Puducherry</p> <p><i>Morphological Studies On Heart Samples of Sildenafil Citrate And Alcohol Fed Albino Mice</i></p>
	:	<p><b>Shubha Nivargi</b>. Sapthagiri Institute of Medical Sciences and Research Centre, Bangalore</p> <p><i>Clinical Scenario In Pregnancy With Single Umbilical Artery –Diagnosis And Implications</i></p>
		<p><b>Sunayana Manipal</b>, SRM Dental College , Chennai</p> <p><i>Systematic review and Meta analysis on prophylactic mouth washes – a paradigm shift from chlorhexidine gluconate to essential oil mouth wash.</i></p>
		<p><b>Minakashee Sharma</b>, Institute of Human Genetics, University of Jammu, Jammu</p> <p><i>Positive Correlation Of Non-Genetic Risk Factors With Diabetes Mellitus</i></p>
<b>Concurrent Poster Session –II (A01 – A57)</b>		

**January 07, 2019**

**14:00 – 15:00**

Venue

**14.00 – 15.00**

**Invited Lectures/ Oral Presentations**

**Miscellaneous topics**

**Oral Presentations**

- |  |   |  |
|--|---|--|
|  | : | <b>Soumen Acharya</b> , Consultant CMU, NIPCCD (New Delhi)<br><i>The behavioral screening used in AIIMS CTVS and cardiology department questionnaire, the Strengths and Difficulties</i>   |
|  | : | <b>Vishal Bansal</b> , Department of Physiology, V. P. Chest Institute, University of Delhi,<br><i>Role of Exercise training in treatment of Chronic Respiratory Diseases</i>  |
|  | : | <b>Laishram Hemchandra</b> , Associate Professor, Department of Zoology, Dhanamanjuri University, Manipur.<br><i>Prevalence of goiter and Hashimoto's thyroiditis among school children and women of reproductive age group in Manipur</i> |
|  | : | <b>Estari Mamidala</b> , Department of Zoology, Kakatiya University, Warangal.<br><i>Potent HIV-1 Reverse Transcriptase Activity Punicalagin, A Novel Tannin Component Isolated From Terminalia Chebula Ritz</i>                           |

**General Discussion and Recommendations**

SECTION	NEW BIOLOGY (INCLUDING BIOCHEMISTRY, BIOPHYSICS, MOLECULAR BIOLOGY AND BIOTECHNOLOGY)
<b>Sectional President</b>	<b>Prof. Sudip K. Ghosh,</b> Department of Biotechnology, Indian Institute of Technology Kharagpur Kharagpur-721302
<b>Sectional Secretary</b>	<b>Prof. R. L. Ravikumar,</b> Professor & Head, Dept. of Biotechnology, College of Agriculture, UAS, GKVK,
<b>Sectional Recorder</b>	<b>Dr. Sandipan Chatterjee</b> Scientist, Regional Centre for Extension and development-Kolkata, CSIR-Central Leather Research Institute, Kolkata
<b>January 04, 2020</b>	
<b>14:00 – 17:00</b>	
Venue	:
<b>Presidential Address</b>	: <b>Sudip K. Ghosh,</b> IIT Kharagpur, Kharagpur  <i>New insight into Entamoeba encystation</i>
<b>Platinum Jubilee Lecture</b>	: <b>Suman K. Dhar,</b> Professor, JNU, New Delhi  <i>Human malaria parasite plasmodium falciparum: unique biology and possible interventions</i>
<b>Keynote Address</b>	<b>Asim K. Duttaroy</b> Institute of Basic Medical Sciences, University of Oslo, Oslo, Norway  <i>Maternal dietary fatty acids and placental roles in human fetal growth and development</i>
<b>Invited Lecture</b>	<b>Yasuhiro Ozeki,</b> Yokohama City University, Japan  <i>The Possibility of Marine Lectins as Post-Antibody Drug</i>
<b>Award Lectures:</b>  <b>Prof S S Katiyar Endowment Lecture</b>	<b>Alok Dhawan</b> CSIR-Indian Institute of Toxicology Research, Lucknow - 226001, U.P.  <i>Supporting risk in science: emergence of nanotoxicology in India</i>



<p><b>Prof Uma Kant Sinha Memorial Award Lecture</b></p>	<p><b>Mohan C D</b> Department of Studies in Molecular Biology, University of Mysore, Manasagangothri, Mysore, India</p> <p><i>New azaspirane suppresses the growth of hepatocellular carcinoma by targeting the jak-stat3 signaling pathway</i></p>
<p><b>Invited Lectures</b></p>	<p>: <b>Sudip Chattopadhyay,</b> NIT Durgapur, Durgapur</p> <p><i>The inter-regulation of myc2 with other transcription factors to control plant growth and development</i></p> <hr/> <p><b>Chinmoy Panda,</b> CNCI, Kolkata</p> <p><i>Molecular profiles of chemo-tolerant triple negative breast carcinoma: future therapeutics</i></p>
<p align="center"><b>SECTIONAL COMMITTEE ELECTION</b></p>	

**January 05, 2020**  
**14:00 – 18:00**

Venue		
<b>Symposium-I: Health care Technology: Bench to bedside and beyond.</b>		
<b>14:00 – 16:15</b>		
<b>Invited Lectures/Oral presentation</b>		
		<p><b>Debasish Mitra</b>, CDFD, Hyderabad</p> <p><i>Cellular stress proteins as potential targets and repurposing of drugs in the fight against hiv/aids</i></p>
		<p><b>C. Durga Rao</b>, SRM University, Amaravati, India</p> <p><i>Enteroviruses and their association with acute and persistent gastrointestinal infections and diseases</i></p>
		<p><b>Saumitra Das</b>, NIBMG Kalyani, Nadia</p> <p><i>A, B, Cs, of hepatitis: life in liver</i></p>
		<p><b>Sujoy DasGupta</b>, Bose Institute, Kolkata</p> <p><i>Phage inspired antibiotics for mycobacteria</i></p>
		<p><b>Kaustuv Sanyal</b>, JNCASR, Bangalore</p> <p><i>Determinants of a rapidly evolving chromosomal locus - the centromere</i></p>
		<p><b>Estari Mamidala</b> Kakatiya University, Warangal-506009 Telangana State</p> <p><i>Potent hiv-1 reverse transcriptase activity punicalagin, a novel tannin component isolated from terminalia chebula ritz</i></p>
		<p><b>Vellingiri Manon Mani</b> Rathnavel Subramaniam College of Arts and Science, Coimbatore- 641402, Tamil Nadu, India</p> <p><i>Anti-angiogenic potential of silver nanoparticles synthesized from an endophytic fungus aspergillus nomius fc1lay1 and its bioactivities</i></p>
<b>16.30 –17.30</b>	<b>Invited Lectures/ Oral Presentations</b>	
		<b>Arunava Das</b> , Bannari Amman Institute Technology, Sathyamangalam-

	638401, Erode District, Tamil Nadu, India <i>Molecular characterization of drug resistant clostridium perfringens type a from necrotic enteritis</i>
	<b>Ramalingam Saravana</b> , Annamalai University, Annamalai nagar, Government Arts College, Kumbakonam <i>Effect of bergenin on endocrine signal molecules and adipocyte differentiation transcription factors in high fat diet -induced diabetic c57bl/6 mice</i>
	<b>Vani Mishra</b> University of Allahabad, Prayagraj, UP-211002 <i>Stat3 modulates scavenger receptor-a expression during silicosis via IL-10</i>
	<b>Akhileshwar Kumar Srivastava</b> , CSIR-CFTRI, Mysore, India <i>Insight from structural interactions of curcumin biotransformed compounds with caga oncoprotein of helicobacter pylori</i>
	<b>Prateek Sharma</b> , University of Birmingham, Birmingham, B15 2TT, West Midlands, UK <i>The multiple antibiotic resistance (MAR) operon of enteric bacteria controls dna repair and outer membrane integrity</i>
	<b>Ravi Kumar H</b> , JB Camus, Bangalore University, Bangalore-560056 <i>Phytochemicals from ruta graveolens leaf retard cancer cells growth through proliferation inhibition in vitro.</i>
<b>Concurrent Poster Session –I (P-I.1 to P-I.52 and P-II-1 to P-II.21)</b>	

<b>January 05, 2020</b>	
<b>PARALLEL SESSION</b>	
<b>14:00 – 18:00</b>	
Venue	
<b>14:00 – 16:15: Symposium-II: Agricultural Biotechnology: Science for Lab to land.</b>	
<b>Invited Lectures 14.00-16.15</b>	
	<b>Subhra Chakroborty</b> , NIPGR, New Delhi

		<i>Molecular insights into organeller control of chitosan triggered immunity: turning knowledge into innovation</i>
		<b>Utpal Nath</b> , IISC, Bengaluru  <i>Integration of developmental and environmental signals in plant growth plasticity</i>
		<b>Somnath Bhattacharya</b> , Bidhan Chandra Krishi Vidyalaya, Kalyani, Nadia  <i>Identification and utilization of elite alleles of abcc1 and pap10a gene in development of low arsenic accumulating p-deficiency tolerant rice</i>
		<b>Sesha Shreeman</b> , UAS, GKVK, Bengaluru Improving crop productivity with less water: how a combination of high throughput phenotyping with multi-omics approach help develop suitable cultivars of rice
		<b>R.L.Ravi Kumar</b> , UAS GKVK, Bengaluru  <i>Effect of high temperature and drought stress during early reproductive stage on pollen development and its application in crop improvement</i>
		<b>Sandipan Chatterjee</b> , RCED-Kolkata, CSIR- Central Leather Research Institute  <i>Metabolic fingerprinting of withania somnifera leaf and root using gc-ms, hplc and nmr spectroscopy</i>
<b>16.30 – 17.30 Invited Lectures/ Oral Presentations</b>		
		<b>Divya Singh</b> , Department of Mulberry physiology, CSRTI-Mysore, India  <i>Effect of malathion on cytophysiological activity, DNA damage and antioxidant enzymes in root of Allium cepa</i>
		<b>Khushbu Verma</b> , Jayoti Vidyapeeth Women's University, Jaipur, Rajasthan.  <i>Cross talk between heme oxygenase1 (HO1) and auxin response factor (ARF) genes for salt tolerance and lateral root development in Cicer arietinum l</i>
		<b>B. Nagarathnam</b> , National Center for Biological Sciences (TIFR), Bangalore, India

	In silico screening of certain bioactive compounds from Ceasalpania bonduc (fever nut) for select class i and ii type human olfactory receptors (ors) against asthma and <i>COPD</i>
	<b>Preethi Rajesh</b> Garden City University, Bangalore-49 <i>Isolation, characterization and application of fungal laccases in the degradation of pesticides</i>
	<b>Sudeshna Shyam Choudhury</b> , St. Xavier's College, Kolkata <i>Identification and characterization of the antimicrobial and active components of tea (Camellia sinensis)</i>
<b>Concurrent Poster Session –I</b> <b>(P-I.1 to P-I.52 and P-II-1 to P-II.21)</b>	

**January 06, 2020**

<b>14:00 – 18:00</b>		
Venue		
<b>14.00 – 16.15 Symposium-I: Health care Technology: Bench to bedside and beyond.</b>		
<b>Keynote Address</b>		<b>KV R Chary, IISER, Berhampore</b>
<b>Invited Lectures</b>		<b>Sib Sankar Roy, CSIR-IICB, Kolkata</b> <i>Metabolic switching in tumour cells promotes adaptation, survivability and oncogeneis</i>
		<b>Bishnu Pada Chatterjee, CNCI, Kolkata</b> <i>Omic research: a path to identify disease biomaker</i>
		<b>Sharmistha Dey, AIIMS, New Delhi</b> <i>Blood based protein marker of head &amp; neck squamous cell carcinoma and their therapeutic intervention</i>
		<b>Gopala Krishna, Parexel International, Bethesda, MD, USA</b> <i>Global regulatory pathways to discover, develop and bring medicine to man and achieve cost-effective healthcare</i>
		<b>Amit Agarwal PGIMER, Chandigarh</b> <i>Association of cd14 c-159t promoter polymorphism with regulatory cytokine response in indian children including birth cohort of babies with atopic asthma</i>
<b>16.30 – 17.30</b>	<b>Invited Lectures/ Oral Presentations</b>	
		<b>A. Roja Rani, Osmania University, Hyderabad, Telangana</b> <i>Determination of cytotoxic activity of embelia robusta against human cervical (HeLa) cells line using MTT assay</i>
		<b>Senjam Sunil Singh, Manipur University, Manipur</b> <i>Banana lectins as tools for cancer diagnosis</i>
		<b>Anwasha Bandyopadhyay, Indian Institute of Technology Kharagpur, Kharagpur 721302, India</b> <i>Apoptosis inducing factor (AIF) can play an important role in cell death of Entamoeba histolytica</i>

		<b>Anindita Ghosh</b> , Chittaranjan National Cancer Institute, Kolkata-700026, W. Bengal, India  <i>DFT analysis of radical quenching activity of dihydrocanaric acid and its role in the treatment of cancer</i>
		<b>B Andallu</b> , Sri Sathya Sai Institute of Higher Learning, Anantapur, Andhra Pradesh  <i>Role of phytochemicals in spices in healthcare</i>
		<b>Dhanavathy G</b> , SRM Institute of Science and Technology, Kattankulathur, Kanchepuram, India-603203  <i>Swertiamarin a potent antidiabetic compound enhances glucose uptake in insulin resistant Hepg2 cell lines</i>
<b>Concurrent Poster Session –II (P-I.53 to P-I.103 and P-II-22 to P-II.42)</b>		

<b>January 06, 2020</b>		
<b>14:00 – 18:00 PARALLEL SESSION</b>		
Venue		
<b>14:00 – 16:15: Symposium-I: Health care Technology: Bench to bedside and beyond.</b>		
<b>Invited Lectures/ Oral Presentations</b>		<b>Dheer Singh</b> , ICAR-National Dairy Research Institute, Karnal-132001, Haryana Milk exosomal mirnas: novel dietary cell regulator in health and diseases
		<b>Sagarika Biswas</b> , IGIB, New Delhi  <i>Rheumatoid arthritis increases the risk of heart disease: proteomic studies</i>
		<b>Pranab Roy</b> , Institute of Child Health, Kolkata  <i>Molecular detection of two major mutations causing two genetic diseases,</i>

		<i>beta thalassemia and cystic fibrosis</i>
		<b>Rajeswari R. Moganty</b> , AIIMS, New Delhi  <i>Triplex-forming oligonucleotides (tfo) targeted to hmgb1 gene shows antiproliferative effect in human hepatoma cells</i>
		<b>Somdeb Bose Dasgupta</b> , IIT Kharagpur, Kharagpur  <i>Alternative approaches for diagnostics and therapeutics against tuberculosis</i>
		<b>.Aniruddha Banerji</b> , St. Xavier's College (Autonomous), Kolkata  <i>Epidermal growth factor receptor (egfr): a potent regulator of matrix metalloproteinases (mmps) and tumour invasion in breast cancer</i>
<b>Invited Lectures/ Oral Presentations</b>		
		<b>Kanagaraj P</b> , SRM Institute of Science and Technology, Kattankulathur, Kanchepuram, India-603203  <i>DNA aptamer used as a sensor in early breast cancer diagnosis</i>
		<b>Santosh Kumar Tiwari</b> , Maharshi Dayanand University, Rohtak-124001, Haryana, India  <i>Mode of action of bacteriocin from food-isolate Enterococcus hirae LD3 against target bacteria</i>
		<b>Prakash M Halami</b> , CSIR- Central Food Technological Research Institute, Mysuru 570020 India.  <i>Anti-inflammatory effect of B. breve NCIM 5671 in adjuvant induced arthritic rats</i>
		<b>Nannu Shafakatullah</b> , Mangalore University, Mangalagangothri-574199, Karnataka  <i>Potential role of probiotic bacteria Lactobacillus fermentum strain CM3 on prevention and treatment of colorectal cancer</i>
		<b>D.K. Chauhan</b> , Department of Zoology, Chaudhary Charan Singh University, Meerut, Uttar Pradesh  <i>Toxicity of green synthesized copper oxide nanop articles (cuonps) from momordica charantia in albino rats</i>
		<b>Gupta R</b> , Department of Pharmaceutical Research Division, ASBASJSM College of Pharmacy, Bela (Ropar)



	<i>Cordia obliqua</i> willd. Leaf antioxidant activity study and determination of total phenol & flavonoid content
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**Concurrent Poster Session –II**  
**(P-I.53 to P-I.103 and P-II-22 to P-II.42)**

January 07, 2020

14:00 – 15:00

Venue

**Invited Lectures/ Oral Presentations**

**Invited Lectures/ Oral Presentations**

**Mahitosh Mandal**, IIT Kharagpur Kharagpur

*Diacerein-mediated inhibition of il-6/il-6r signaling induces apoptotic effects on breast cancer*

**Agneyo Ganguly**, IIT Kharagpur, Kharagpur

*An insight into the mechanism of DNA strand annealing by human recq1 helicase*

**Bhakti Laha** T D B College, Raniganj–713347

*Detection of apical membrane antigen – like protein in Leishmania donovani, a facilitator in successful parasitism*

**Pavan R.**, Central Research Laboratory, Sapthagiri Institute of Medical Sciences and Research Center, Bangalore – 560 090

*Airborne fungal spores in industrial area, Bangalore*

**General Discussion and Recommendations**

SECTION		PHYSICAL SCIENCES
<b>Sectional President</b>	:	<b>Dr. Santhosh Chidangil</b> Centre of Excellence for Biophotonics and Department of Atomic and Molecular Physics, Manipal Academy of Higher Education, Manipal, Karnataka.
<b>Sectional Secretary</b>	:	<b>Dr. Naveen S</b> Department of Physics, School of Engineering & Technology, Jain Global Campus, Ramanagar, Karnataka
<b>Sectional Recorder</b>	:	<b>Dr. Vineet Kumar Rai</b> Department of Applied Physics, Indian Institute of Technology, Dhanbad, UttarPradesh.
<b>January 04, 2019</b>		
<b>14:00 – 17:30</b>		
Venue	:	
<b>Presidential Address</b>	:	<b>Santhosh Chidangil,</b> Centre of Excellence for Biophotonics and Department of Atomic and Molecular Physics, Manipal Academy of Higher Education, Manipal, Karnataka.  <i>Advances in Photonics Technologies for Healthcare</i>
<b>Platinum Jubilee Lecture</b>	:	<b>Chandrabhas Narayana,</b> Professor, Chemistry and Physics of Materials Unit, Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur P.O., Bangalore.  <i>Discovering new topological insulators using Raman spectroscopy</i>
<b>Foreign Scientist Speakers</b>	:	<b>Shean-Jen Chen,</b> College of Photonics, National Chiao Tung University, Taiwan.  <i>Fast Volumetric Bioimaging Based on Temporal Focusing Widefield Multiphoton Microscopy</i>  <b>Murukeshan Vadakke Matham,</b> Centre for Optical & Laser Engineering (COLE), Nanyang Technological University, Singapore.  <i>Hybrid-modality diagnostic imaging and specialty fiber probes for optogenetics applications – role of contrast agents</i>
<b>Young Scientist Award Presentations</b>	:	<b>Laxmi Kumari</b> Department of Physics, University of Lucknow, Lucknow - 226 007, U.P.

		<p><b>Ayushi Rastogi</b> Liquid Crystal Research Laboratory , Department of Physics, University of Lucknow,Lucknow – 226 007.</p> <p><b>Ananya Chowdhury</b> Department of Physics, Indian Institute of Technology Kharagpur, Kharagpur – 721 302.</p> <p><b>Mallikarjun K. Patil</b> Laser Spectroscopy, Department of Physics, Karnatak University Dharwad, Pavate Nagar, Dharwad - 580 003.</p>
<b>SECTIONAL COMMITTEE ELECTION</b>		
<b>January 05, 2019</b>		
Venue	:	
<b>14.00 – 17.00 Symposium</b>		
<b>Photonics: An emerging Physical Science discipline for energy, environment, and health care in rural setting</b>		
<b>Invited Lectures</b>	:	<p><b>Ammasi Periasamy</b>, WM Keck Center for Cellular Imaging, University of Virginia, Departments of Biology and Biomedical Engineering, Charlottesville, VA 22904, USA</p> <p><i>Fluorescence Lifetime Imaging Microscopy in the Biomedical Sciences</i></p>
	:	<p><b>Prem B. Bisht</b> Department of Physics,Indian Institute of Technology,Madras, Chennai.</p> <p><i>Self-assembled microbottle resonator for sensing technology</i></p>
	:	<p><b>V. J. Fulari</b> Department of Physics,Shivaji University, Kolhapur.</p> <p><i>Chemically synthesized electrodes like CuO and Polypyrrole-Polyaniline Composite thin film as a promising electrode materials for glucose sensor</i></p>
	:	<p><b>Reji Philip</b> Ultrafast and Nonlinear Optics (UNO) Lab,Light and Matter Physics (LAMP) Group,Raman Research Institute,Bangalore.</p> <p><i>Optical Limiters: Materials for protecting human eyes and optical sensors from hazardous laser radiation</i></p>
	:	<p><b>Aditya K Dharmadhikari</b> Department of Nuclear and Atomic Physics, Tata Institute of Fundamental Research,Colaba, Mumbai.</p>

		<i>Intense femtosecond laser pulse induced damage to biomolecules</i>
		<b>V P N Nampoori</b> International School of Photonics, Cochin University of Science and Technology, Cochin Kerala  <i>Photonics Technology for quality evaluation of agricultural products</i>
<b>BEST POSTER AWARD PRESENTATION</b> <b>Concurrent Poster Session –I (P01 – P50)</b>		

<b>January 06, 2019</b>		
Venue	:	
<b>14.00 – 17.00</b>		<b>Symposium</b>
<b>Recent advances in Physical Sciences</b>		
<b>Invited Lectures</b>	:	<b>P. S. Anilkumar</b> Department of Physics, Indian Institute of Science, Bangalore.  <i>Physics and Technology with quantum materials</i>
	:	<b>Goutam K. Samanta</b> Photonic Sciences Laboratory, Physical Research Laboratory, Navrangpura, Ahmedabad.  <i>Classical and quantum implementation of structured optical beams</i>
	:	<b>Sanjeev Inamdar</b> Department of Physics, Karnatak University Dharwad. ,  <i>Quantum dot based FRET sensors</i>
	:	<b>Kailasnath M</b> International School of Photonics, Cochin University of Science & Technology, Kochi.  <i>Polymer micro lasers for sensing applications</i>
	:	<b>Satheesh Kumar</b> Department of Atomic and Molecular Physics, Manipal Academy of Higher Education, Karnataka  <i>Optical Monitoring of Clear Sky Air Turbulence in the wake of Global Warming</i>
<b>Concurrent Poster Session –II (P51 – P109)</b>		



**January 07, 2019**

Venue		
<b>14.00 – 15.00</b>	<b>Oral Presentations</b>	
<b>Oral Presentations</b>	:	<p><b>N. Shanthi and Aravind Babu</b> Department of Physics, School of Sciences, Jain Deemed-to-be University, Bengaluru, Karnataka</p> <p><i>Quantum Entanglement - Recent evidences</i></p>
	:	<p><b>Laxmi Kumari, Sachin Gupta and Manisha Gupta</b> Department of Physics, University of Lucknow, Lucknow 226007, India</p> <p><i>Molecular Association and Spectroscopic of Poly(vinyl pyrrolidone) (PVP) Polymer with ethanol and 1-butanol at Varying Temperature</i></p>
	:	<p><b>S. S. Patil, S. S. Mane, D. V. Pawar, V. J. Fulari</b> Holography and Materials Research Laboratory, Department of Physics, Shivaji University, Kolhapur- 416004 (M.S.) India</p> <p><i>Chemically Synthesized nanostructures CuS thin film for energy storage application</i></p>
	:	<p><b>Shivaraj R. Maidur, K. N. Krishnakanth, Parutagouda Shankaragouda Patil, S. Venugopal Rao</b> Department of Physics, KLE Institute of Technology, Opposite Airport, Gokul, Hubballi 580030, India.</p> <p><i>Third order nonlinear optical studies of 2,4,5-trimethoxy-4-nitrochalcone using femtosecond DFWM technique</i></p>
	:	<p><b>Shatadru Chaudhuri, Harijyoti Mandal, Ayesha Bhattacharjee, Dhruba Jyoti Das, Jyotirmoy Goswami</b> Department of Physics, Jadavpur University, Jadavpur, Kolkata-700032</p> <p><i>Solitary wave propagation in a cold magnetized plasma with relativistic electrons</i></p>
	:	<p><b>Mallikarjun K. Patil and Sanjeev R. Inamdar</b> Laser Spectroscopy Programme, Department of Physics, Karnatak University, Dharwad 580003, India</p> <p><i>Size and Distance Dependent Surface Energy Transfer from NHS Ester activated Alexa Fluor 532 dyeto Gold Nanoparticles</i></p>
	:	<p><b>Suresh Chandra and Mohit K Sharma</b> Amity Centre for Astronomy &amp; Astrophysics, Amity Institute of Applied Sciences, Amity University, Noida 201313, India.</p> <p><i>H<sub>2</sub>SiO IRASERS in a warm region in interstellar medium</i></p>
	:	<p><b>Aravind M, Santhosh Chidangil and Sajan D. George</b> Department of Atomic and Molecular Physics, Manipal Academy of Higher Education, Manipal-576104, India</p>

		<i>Colorimetric detection of Mercury (II) ions based on Ag reduced PDMS sponge</i>
<b>General Discussion and Recommendations</b>		



SECTION		PLANT SCIENCES
<b>Sectional President</b>		<b>Dr. Y. Vimala,</b> Professor, Botany Department, Pro-Vice Chancellor, CCS University, Meerut
<b>Sectional Secretary</b>		<b>Dr. Nataraja Karaba,</b> Professor, Department of Crop Physiology, University of Agricultural Sciences, GKVK, Bengaluru
<b>Sectional Recorder</b>		<b>Dr. Sunil Kumar Chaturvedi,</b> Professor, Department of Botany, Nagaland University, Lumani-798627 Nagaland
<b>January 04, 2020</b>		
14:00 – 17:00		
Venue	:	
<b>Presidential Address</b>	:	<b>Y. Vimala,</b> Professor, Department of Botany, Pro-Vice Chancellor CCS University, Meerut  <i>Realizing 'SSR' initiative for conserving environment through secondary plantations on marginal / degraded land sites</i>
<b>Platinum Jubilee Lecture</b>	:	<b>Rajesh Arora</b> Additional Director, DRDO, New Delhi  <i>Innovative herbal technologies for soldiers &amp; society</i>
<b>Award Lectures:</b>		
<b>Dr. V. Puri Memorial Award Lecture</b>	:	<b>Daizy R. Batish</b> Department of Botany, Panjab University, Chandigarh, India  <i>Role of Phenotypic Variations in Establishment of Invasive Plants: A Case Study on Parthenium hysterophorus L.</i>
<b>Young Scientist Award Presentations</b>	:	<b>Rajkumar Uttamrao Zunjare</b> Room No. 104, Maize Genetics Init, LBS Building, ICAR-Indian Agriculture Research Institute, New Delhi Pusa Campus, Pin : - 110 012.  <b>Rupali Ramakrishna Surase</b> Department of Computer Science and IT, Dt. Babasaheb Ambedkar Marathwada University, Aurangabad – 431 004.
<b>SECTIONAL COMMITTEE ELECTION</b>		

**January 05, 2020**

**14:00 – 17:30**

Venue

**14.00 – 17.45**

**Symposium / Invited Lectures**

**Foreign Invited Lecture**

**Tetsuro Mimura,**  
Professor, Kobe University, Japan

*Cell-specific analysis of localization of secondary metabolites in medicinal plants*

**Symposium I**

**Secondary Plantations in Rural development**

**: Debashis Banerji,**  
Advisor Bioscience, Baba Amte Centre for People's Empowerment, Samaj Pragati Sahayog, Bagli, Distt Dewas, MP, Former Professor of Botany, CCS University, Meerut

*Greening and Green energy Production as major components of rural development in the context of global warming induced climate change*

**: R. R. Rao,**  
INSA Honorary Scientist, Indira Nagar, Bangalore

*Role of Ethno-Botany in search of newer drug plants & in conservation of Biological Diversity: Some concerns & issues*

**: SK Barik,**  
Director, CSIR-National Botanical Research Institute, Lucknow-226001

*Technologies and products for rural development using Environmental and Experimental Botany*

**: S. R. Yadav.**  
INSA Senior Scientist,  
Department of Botany, Shivaji University, Kolhapur-416 004 (MS) India

*Crucial role of Biologists and Educational Institutes in conservation of Biodiversity in 21<sup>st</sup> Century*

**Umesh C Lavania.**  
INSA Senior Scientist, Department of Botany, Lucknow University,  
Lucknow 226-007

*Non-conventional breeding approaches for genetic enhancement of medicinal and aromatic plants*

**Dinesh Kumar Maheshwari,** UGC-BSR fellow  
Dept. of Botany and Microbiology, Gurukul Kangri University, Haridwar

*Potassium- Solubilizing Proteus mirabilis Mg 738216 inhabiting cattle dung in Nutrient Use Efficiency in Foeniculum vulgare Mill*

**: T. Pullaiah**

	Department of Botany, Sri Krishnadevaraya University, Anantapur, Andhra Pradesh.  <i>An appraisal on the Flora of Eastern Ghats, India</i>
	: <b>Sahadev Sharma</b> Institute of Ocean and Earth Sciences, University of Malaya, Malaysia  <i>Mangrove forest restoration or rehabilitation: do we have restored all ecological functions it originally provided?</i>
<b>BEST POSTER AWARD PRESENTATION</b> <b>Concurrent Poster Session –I (subsection I-IV)</b>	

**January 06, 2020**

<b>14:00 – 17:30</b>		
Venue		
<b>14.00 – 17.45</b>	<b>Symposium /Award Lectures</b>	
<b>Prof. Hira Lal Chakravarty Award Lecture</b>	:	<p><b>Jitender Giri</b> National Institute of Plant Genome Research, Aruna Asaf Ali Road, New Delhi, India</p> <p><i>Cutting fertilisers use in crop production</i></p>
<b>Symposium II</b>		<b>‘Environmental &amp; Experimental Botany in Rural Development</b>
	:	<p><b>Shanti S. Sharma</b> Department of Botany, School of Life Sciences, Sikkim University, Tadong, Gangtok 737 102, Sikkim</p> <p><i>Arsenic contamination, toxicity and phytoremediation potential of As-hyperaccumulator fern species</i></p>
	:	<p><b>Vinay Sharma,</b> Director, Amity Institute of Biotechnology, Amity University Rajasthan- 303002 Former Professor, Dept. of Biotechnology, Vanasthali Vidyapeeth, Rajasthan</p> <p><i>Stress adaptation in plants</i></p>
	:	<p><b>J.P.Yadav</b> Department of Genetics, M. D. University, Rohtak-124001</p> <p><i>Therapeutic potential and diversity of endophytic Fungi associated with Calotropis procera</i></p>
	:	<p><b>Vidya Patni</b> Department of Botany, Plant Pathology, tissue culture and biotechnology laboratory University of Rajasthan, Jaipur, India.</p> <p><i>Plant-Insect interactions: Time to unlock molecular mechanisms</i></p>
	:	<p><b>C. Manoharachary,</b> NASI Platinum Jubilee Scientist, Osmania University, Hyderabad</p> <p><i>Climate change and food security</i></p>
	:	<p><b>P. Giridhar</b> Plant Cell Biotechnology Department CSIR- Central Food Technological Research Institute, Mysuru-570 020, India</p> <p><i>Versatility of secondary metabolites: A cohesive view on diversity, evolution, functional roles and environmental interactions</i></p>

	:	<b>Rana Pratap Singh,</b> Department of Environmental Science Babasaheb Bhimrao Ambedkar University, Lucknow – 226025, India  <i>Multifunctional microbial stimulants for sustainable agriculture</i>
	:	<b>N.K.Dubey</b> Department of Botany, Banaras hindu University, Varanasi-221005  <i>Boosting green chemicals in Agriculture in addition to Pharma sector under Make in India</i>
	:	<b>N. Savithamma,</b> Vice Principal, SVU College of Sciences SV University Tirupati- Andhra Pradesh  <i>Ecofriendly synthesis of Nanoparticles to enhance the Agriculture production</i>

15.00 – 17.30

**Concurrent Poster Session –II (subsection V-VIII)**

**January 07, 2020**

**14:00 – 15:00**

Venue

**14.00 – 15.00**

**Invited Lectures- Symposium I & II**

	:	<b>Seshu Lavania</b> Department of Botany, Lucknow University, Lucknow, Immediate Past President, Plant Science Section of ISCA  <i>Vetiver Ecosystem Service Model</i>
	:	<b>N Sathyanarayna,</b> Dept. of Botany, Sikkim University Gangtok-737102, Sikkim  <i>Genetics and Genomic Resources development in underutilized legume Mucuna pruriens (L.) Dc.– Issues and perspectives</i>
	:	<b>Nataraja N Karaba</b> Department of Crop Physiology, University of Agricultural Sciences, GKVK, Bengaluru  <i>Prospecting trait-specific genes from Indian mulberry</i>

**General Discussion and Recommendations**