

## 2<sup>nd</sup> REGIONAL SCIENCE & TECHNOLOGY CONGRESS (WESTERN REGION), 2017 [2<sup>nd</sup> RSTC (WR), 2017]



Jointly organised by  
The University of Burdwan, Burdwan  
&

Department of Higher Education, Science and Technology  
and Biotechnology, Government of West Bengal  
*November 16-17, 2017*

No.: BU/RSTC/2017/NOT-10

Date:07/11/2017

The following papers have been accepted for presentation at the 2<sup>nd</sup> RSTC (WR), 2017. The presenting authors are marked with asterisk (\*) sign right to their names. Time and venue of presentation have been provided in the Programme Schedule of the Congress. Presenting authors are requested to carry a valid photo identity card with them. 3ft×2.5ft space will be provided for fixing a poster. For oral presentation, total number of slides should not exceed six.

### Discipline: Agriculture-Fisheries and Animal Science (AS)

Oral Presentation		
Sl. No.	Abstract No.	Title of abstract and name of the author(s)
1	AS-O1	Effects of atomic scale tailored green nanos on human pathogenic bacteria: A laboratory approach - Kuntal Bhattacharya* and Goutam Chandra
2	AS-O2	Screening of rice genotypes for high iron and zinc content - Maini Bhattacharjee*, Kasturi Majumder, Disharee Nath and Tapash Dasgupta
3	AS-O3	The simultaneous role of thyroid and pituitary hormones in regulating the reproductive phases of female <i>Mystus vittatus</i> : A histometric approach - Nilanjana Chatterjee* and Baibaswata Bhattacharjee
4	AS-O4	Anti oncogenic activity and growth enhancing efficacy of oxidised multi-walled CNT (OMWCNT) - Madhureema Dey*, Sukhen Das and Ruma Basu
5	AS-O5	Biodiversity, threat status and conservation priority of Ichthyofauna of river Rupnarayan at Purba Medinipur Region, India - Mrinmay Ghorai*, Bidhan C. Patra and Utpal K. Sar
6	AS-O6	Dry directed rice for agriculture sustainability and enhancing system productivity - Basudeb Ghosh*
7	AS-O7	Utilization of <i>Pistia</i> leaf meal in formulated diets for Rohu, <i>Labeo rohita</i> (Hamilton) fingerlings after fermentation with a tannase-

		producing yeast, <i>Pichia kudriavzevii</i> (GU939629) - Sudipta Mandal and Koushik Ghosh*
8	AS-O8	Micronucleus and behavioural studies in fresh water fish, <i>Anabus testudinus</i> exposed to Dimethoate (Rogor) - Santosh Kumar Giri*, Surjyo Jyoti Biswas and Nimai Chandra Saha
9	AS-O9	Feed the actual needs of the crops for healthy production through the modern version of farming [SSNM] - Dharmadas Kalindi*
10	AS-O10	Effect of bulb weight and spacing in seed production of onion under red and laterite zone of West Bengal - Joydip Mandal*
11	AS-O11	Efficacy of Methanolic extracts of <i>Moringa oliefera</i> (ML) leaves and <i>Phyllanthus emblica</i> (PE) fruits as additives in formulation of diets for rohu, <i>Labeo rohita</i> (Hamilton) - Mousumi Mandal* and Koushik Ghosh
12	AS-O12	Indigenous knowledge - an eco-friendly plant stress management option towards sustainable agriculture - Bholanath Mondal*
<b>Poster Presentation</b>		
1.	AS-P1	Status of enclosure culture in West Bengal - Sanjib Bose*
2.	AS-P2	<i>In vitro</i> cytotoxic and antiproliferative effects of aerial parts' aqueous extract of <i>Ampelocissus latifolia</i> (Roxb.) Planch. on Dalton's lymphoma cells - Anwesa Chaudhuri* and Sanjib Ray
3.	AS-P3	Deteriorative changes in soybean seeds due to storage by Fungi- Anirneeta De* and Subrata Raha
4.	AS-P4	Experiences of betel vine culture – a source of livelihood at Panskura-I Block, Purba Medinipur - Shyamal Dogra* and Harendranath Dogra
5.	AS-P5	Panchagavya – a solution for well being of plants and towards sustainable agriculture - Basudeb Ghosh*
6.	AS-P6	Bio efficacy of bispyribac sodium (10SC) for weed management in direct seeded rice - Basudeb Ghosh*
7.	AS-P7	Effect of crude plant materials and chemical as an invigoration treatment in different cultivars of rice (cv. GB-1, MTU 1010, IET 4094) seed for extending germination percentage, yield and yield attributes - Sabyasachi Patra*
8.	AS-P8	Integrated pest management (IPM) of pulse beetle, <i>Callosobruchus maculatus</i> Fabr. - Monali Mukherjee, Shreya Mondal, Debarati Biswas, Debaspriya Das and Nayan Roy*
9.	AS-P9	Population dynamics of a major pest, <i>Scirpophaga incertulus</i> L. on rice - Souren Dutta and Nayan Roy*

**Discipline: Botany (BO)**

<b>Oral presentation</b>		
Sl. No.	Abstract No.	Title of abstract and name of the author(s)
1	BO-O1	GC-mass based identification of flavonoids from one of the lead accessions of <i>Amaranthus hypochondriacus</i> L., identified on the basis of comparative study of antioxidant capacity, reducing power, metal chelating and anti-lipid peroxidation properties - Manashi Aditya* and Soumen Bhattacharjee
2	BO-O2	Establishment of prebiotic potentialities of different carbohydrate fractions extracted from different plant parts - Biplab Bandyopadhyay*, Vivekananda Mandal and Narayan C. Mandal
3	BO-O3	Effect of flower density on pollination and fruit set of <i>Calceolaria tripartita</i> Kunth in Darjeeling Himalaya - Ashoke Bhattacharya*
4	BO-O4	Pollen morphological study of some plant taxa from Bankura District, West Bengal - Sayani Biswas*
5	BO-O5	Comparative study of chemical vs. herbal seed pretreatment for long term storage for farmers in Agriculture in West Bengal - Priyanka Chakraborty* and Alope Bhattacharjee
6	BO-O6	In search of some plant growth promoting and bio control micro-organisms supporting tea plants - Satinath Das* and Narayan C. Mandal
7	BO-O7	HPLC based identification of water soluble vitamins and nutraceutical value of three common grasses of West Bengal - Sudeshna Datta*, Tapan Seal, B. K. Sinha and Soumen Bhattacharjee
8	BO-O8	Flower-visitors interaction of <i>Haldina cordifolia</i> (Roxb.) Ridsdale - Krishnendu Dey*
9	BO-O9	Osmolyte accumulation and its implication in redox regulation under dehydration stress: a biochemical basis for screening indigenous aromatic rice cultivars cultivated in Rarh West Bengal - Nivedita Dey* and Soumen Bhattacharjee
10	BO-O10	Structural and functional aspects of bacterial xylanase: an <i>in silico</i> approach - Bhramar Dutta*, Aparna Banerjee and Rajib Bandopadhyay
11	BO-O11	Evaluation of ethnotraditional formulation of 'Bakhar'- Sudipta Ghosh*, Subrata Mondal and Sukanta K Sen
12	BO-O12	Genome shuffling among mutants of <i>Monascus purpureus</i> for pigment overproduction - Sandip Ghosh* and Sukanta Kumar Sen
13	BO-O13	H <sub>2</sub> O <sub>2</sub> acts as second messenger in SA induced Secondary Root Formation in Mung Bean ( <i>Phaseolus radiatus</i> L.) seedlings: Metabolic and histochemical Evidences - Durga Kora* and Soumen Bhattacharjee
14	BO-O14	A study on comparative productivity of <i>Capsicum frutescens</i> with inoculation of indigenous and exogenous arbuscular mycorrhiza associated with isolated phosphate solubilizing microbes in lateritic soil - Debashis Kuila*, Somdatta Ghosh, Gunjan Biswas and Nagendra Kumar Verma
15	BO-O15	Screening and partial purification of the antimicrobial compound produced by endophytic actinomycetes of <i>Blumea lacera</i> - Santanu Maity* and Debdulal Banerjee
16	BO-O16	Enzyme production by endophytic fungi and biosorption of heavy metals by their discarded biomass - Suchandra Mandal* and Debdulal Banerjee
17	BO-O17	Mushroom polysaccharide: A new hope for prebiotic formulation - Payel

		Mitra*, Narayan Chandra Mandal and Krishnendu Acharya
18	BO-O18	Structural diversity of Starch grains of seeds and seed coat based on analytical microscope of 50 Leguminous taxa: A systematic approach - Amal Kumar Mondal* and Shilpa Dinda
19	BO-O19	Revision of the fern genus <i>Leptochilus</i> (Polypodiaceae) in India - Jaideep Mazumdar*
20	BO-O20	Assured procurement of organic brown rice specially for persons suffering from metabolic syndrome (life style disease) by following Sri Method and folk system of paddy processing by tribal community - Sanjeev Pandey, Animesh Mandal*, Antara Pal and Arup Ghosh
21	BO-O21	Diversity, distribution and ethnomedicinal uses of pteridophytes in Purulia district - Manoranjan Paramanik and Subrata Raha*
22	BO-O22	Structure-function relationship among the members of monocot mannose-binding lectin superfamily - Mahmuda Parveen* and Nilanjana Banerjee
23	BO-O23	Studies of gravimetric and haematological changes in <i>Jussiaea repens</i> induced diabetic male rats - Nirmal Pradhan*, Nema Masanta, Tasneem Khandekar, Ayon Roy, Soumitri Bhowmik, Indrani Chakraorty, Maitryee Banerjee and Subhasish Ghosal
24	BO-O24	Distributional pattern of Cyanobacterial species from hot springs of West Bengal in relation to the ecological parameters - Subhajit Roy* and Samit Ray
25	BO-O25	Screening of Salt resistant land races of rice grown in Sundarban, Bangladesh based on oxidative stress redox metabolism during germination - Uthpal Krishna Roy* and Soumen Bhattacharjee
26	BO-O26	Numerical Taxonomy of some hemiparasitic taxa from South West Bengal (India) based on some morphological and micro morphological characters - Sayantan Tripathi* and Amal Kumar Mondal
<b>Poster presentation</b>		
1	BO-P1	Green synthesis of gold nano-particles in six species of <i>Euphorbia</i> : Role in agronomy as a fertilizer - Subhajyoti Das Barman*, Debasree Ghosh and Amal Kumar Mondal
2	BO-P2	Socio-economic importance of mat grass ( <i>Cyperus pangorei</i> Rottb) from Paschim Medinipur, West Bengal, India - Anup Kumar Bhunia* and Amal Kumar Mondal
3	BO-P3	Production and characterization of exopolysaccharides from endophytic fungi and actinomycetes of Jangalmahal, West Bengal - Shantanu Bhunia*, Santanu Maity and Debdulal Banerjee
4	BO-P4	Evaluation of <i>Trichoderma</i> species as biocontrol agents against <i>Alternaria</i> blight of <i>Vigna unguiculata</i> - M. R. Chakraborty*, D. Bhattacharya and N. C. Chatterjee
5	BO-P5	Impact of fluoride on growth, anatomy and yield of mustard plant ( <i>Brassica</i> sp.) - Dipashree Chattopadhyay*
7	BO-P6	Allelopathic impact of <i>Shorea robusta</i> Gaertn. F. leaf aqueous extracts on <i>Parthenium hysterophorus</i> and <i>Eupatorium odoratum</i> - Chandan Das* and Abhijit Bandyopadhyay
8	BO-P7	<i>In vitro</i> antibacterial activity of <i>Markhamia stipulata</i> (Wall.) Seem. leaf extracts against selected Bacteria - Moumita Das*, Abhijit Bandyopadhyay and Ambarish Mukherjee
9	BO-P8	Diversity and documentation of ethnomedicinal importance of some plants

		of Purba & Paschim Medinipur used by the tribal for curing stomach ailments - Nandita Das <sup>*</sup> , Somdatta Ghosh and Parthapratim Maiti
10	BO-P9	Phylogenetic relationship based on ultra-structural diversity of silica bodies of 56 taxa in the family Poaceae: Systematics in grasses - Shilpa Dinda <sup>*</sup> and Amal Kumar Mondal
10	BO-P10	Silver nanoparticle: a new bio-fertilizer for agricultural science - Debasree Ghosh <sup>*</sup> , Amal Kumar Mondal and Sanjukta Mondal (Parui)
11	BO-P11	Medicinal value of <i>Marsilea</i> species: A case study - Nirupama Bhattacharyya Goswami <sup>*</sup> and Jagatpati Tah
12	BO-P12	Gene, genome, genomics of <i>Bacillus altitudinis</i> Strain SORB11- Urmi Halder <sup>*</sup> and Rajib Bandopadhyay
13	BO-P13	Role of environment for seed germination of white sandal ( <i>Santalum album</i> L.) - Paban Jadab <sup>*</sup> , Animesh Karmakar, Nirupama Goswami and Jagatpati Tah
14	BO-P14	Strategies of germination and morpho-physiological role of white sandal ( <i>Santalum album</i> L.) - Animesh Karmakar <sup>*</sup> , Paban Jadab, Nirupama Goswami and Jagatpati Tah
15	BO-P15	Comparative Case study of some selected plant species in the pollution area: Play an importance role for phytoremediation based on remote sensing and GIS Technology - Shibdas Maity <sup>*</sup> and Amal Kumar Mondal
16	BO-P16	Phytochemical Screening of <i>Euphorbia</i> : An important medicinal plants of South West Bengal, India - Meghali Mallick <sup>*</sup> , Debasree Ghosh and Amal Kumar Mondal
17	BO-P17	Effectiveness of different chemicals for emerging out the inflorescence of 'a' line parent for producing f <sub>1</sub> hybrid rice seed using CMS breeding technology - Riya Pal <sup>*</sup> and Jagatpati Tah
18	BO-P18	How consciousness come in world and when it destroy? - Kausik Kumar Pramanik <sup>*</sup>
19	BO-P19	Comparative Study of Stinging trichome of three different Angiosperm taxa: Based on micromorphology and SDS-PAGE protein profiling - Ayan Kumar Naskar <sup>*</sup> , Manaranjan Pramanik, Lina Karmakar, Puja Ghosh and Amal Kumar Mondal
20	BO-P20	Weed diversity of black gram fields in Purulia district - Manoranjan Paramanik <sup>*</sup> and Subrata Raha
21	BO-P21	Allelochemicals; a new bio-control agent - Agamani Pattanayk <sup>*</sup> and Parthapratim Maiti
22	BO-P22	Monsoon airspora over black gram field in Purulia district - Sucheta Raha <sup>*</sup> and Subrata Raha
23	BO-P23	Keshardam, the herbal solution against diabetes mellitus - a study of blood sugar profile - Ayon Roy <sup>*</sup> , Nirmal Pradhan, Soumitri Bhowmik, Tasneem Khandekar, Indrani Chakraorty, Subhasish Ghosal and Pranabesh Chakraborty
24	BO-P24	Capsular Polysaccharide of Bacilli-mediated comparative copper nanoparticle preparation, its characterization and bactericidal property: a facile approach - Rajendra Kr Roy <sup>*</sup> , Aparna Banerjee and Rajib Bandopadhyay
25	BO-P25	Studies on the effect of location in Mesta ( <i>Hibiscus subdariffa</i> L.) - SK. Samsuddin <sup>*</sup> , Tinkari Dalal and Jagatpati Tah
26	BO-P26	Antimicrobial and antioxidant activity of some selected endophytic fungi

		isolated from selected medicinal plants of Paschim Medinipur, West Bengal, India - Hiran Kanti Santra* and Debdulal Banerjee
27	BO-P27	Amaranth of Gangetic West Bengal: A subsidiary food crop with enriched antioxidant potential for prevention of degenerative disease - Debasmita Sen* and Soumen Bhattacharjee
28	BO-P28	Diversity and yield potential study of traditional aromatic rice varieties of red and lateritic region of West Bengal in comparison with aromatic elite rice lines - A.K. Sinha* and D. Chattopadhyay
29	BO-P29	Isolation and characterization of human oral microflora and usage of natural and commercial oral care products to combat it - Karuna Soren* and Rajib Bandopadhyay
30	BO-P30	Quantum basis of photosynthesis - Sagnik Thakur* and Tapan Kumar Bera

### Discipline: Chemistry (CH)

Oral presentation		
Sl. No.	Abstract No.	Title of abstract and name of the author(s)
1	CH-O1	Structure-property correlation of ferroelectric $ABi_2Nb_2O_9$ ( $A = Sr, Ba$ ) nano-ceramics after the incorporation of Jahn-Teller active $Cu^{2+}$ ions at 'A' site - Mrinal K. Adak* and Debasis Dhak
2	CH-O2	Synthesis, structure and magnetic property of a dibridged dinuclear copper(II) azide compound - Chandan Adhikary*, Barindra Kumar Ghosh and Nimai Chandra Saha
3	CH-O3	Analysis of O-glycans present in kidney and endothelial cell of miniature pig by MALDI-TOF MS - Mausumi Adhya
4	CH-O4	Rapid removal of mercury (II) from aqueous solutions using neem sawdust particles -Milan Krishna Barman*, Sk Mainuddin Haque, Budhadeb Chowdhury and Bidyut Saha
5	CH-O5	Synthesis, characterization and study of the reactivity of various novel palladacycles containing $[C(sp^2, ferrocene), N, O]^-$ or $[C(sp^2, ferrocene), N, O]^{2-}$ terdentate ligands - Pradipta Kumar Basu*
6	CH-O6	Carbinol mediated formation of a unique tetranickel(II) Schiff base complex: Synthesis, X-ray structure, magnetic properties, and phosphodiester cleavage activity - Bhaskar Biswas*
7	CH-O7	Investigation on rearrangement of bicyclo derivative under the catalysis of transition metal salt - Arpita Chatterjee*, Sonjoy Mondal, Rohini Saha, Poulami Pal, Kuheli Chakrabarty and Gourab Kanti Das
8	CH-O8	Synthesis, structure, luminescence property and antibacterial activity of some hexacoordinated zinc(II) complexes with Schiff base - Habibar Chowdhury*, Dipu Sutradhar, Nimai Chandra Saha and Barindra Kumar Ghosh
9	CH-O9	Copper-catalyzed regioselective synthesis of multisubstituted furans by coupling between ketones and aromatic olefins -Amrita Dey*, Md Ashif Ali, Sourav Jana and Alakananda Hajra
10	CH-O10	Genetic algorithm and DFT based study of medium sized $(MgO)_n$ cluster - Soumya Ganguly Neogi*
11	CH-O11	Interaction of triethylamine with phenylacetylene in solutions - Sahidul Islam* and G. Naresh Patwari

12	CH-O12	Nickel (II) complexes of sterically encumbered phenol-based tetradentate N <sub>2</sub> O <sub>2</sub> ligands: synthesis, structure and properties - Debdas Mandal*
13	CH-O13	Generation of short pulsed X-Ray photon from water jet for application in structure determination - Ujjwal Mandal*
14	CH-O14	Pt(II) based cytotoxic agents with minimum toxicity on normal cells compared to clinically used anticancer drugs: Their DNA binding, anticancer property, cell death mechanism and computational study - Sankar Chandra Moi* and Ishani Mitra
15	CH-O15	Production and spectroscopy assisted characterisation of novel bio-surfactant rhamnolipids using three different strain of <i>Pseudomonas sp.</i> - Monohar Hossain Mondal* and Bidyut Saha
16	CH-O16	Metal-catalyzed synthesis of bio-relevant heterocycles - Shovan Mondal*
17	CH-O17	Effective immobilization of a nickel dependent enzyme - urease on silica surface and its analytical applications - Sneha Mondal* and Bhabatosh Mandal
18	CH-O18	Theoretical study on C-H activation catalyzed by 3d-transition metal assisted by acetic acid - Poulami Pal*, Saurodeep Mandal, Sonjoy Mondal, Arpita Chatterjee and Gourab Kanti Das
19	CH-O19	Design and fabrication of hydrophobic cotton fabrics for simple, eco-friendly oil/water separation and capture of oil from water - Sukanta Pal* and Jayanta Maity
20	CH-O20	Theoretical investigation on the mechanistic pathways of cobalt(III) catalyzed transformation of N-substituted carbamoyl indoles to pyrroloindolone derivatives - Rohini Saha*, Saurodeep Mandal, Arpita Chatterjee, Sonjoy Mondal, Kuheli Chakrabarty and Gourab Kanti Das
21	CH-O21	Pharmacological activities of polysaccharides from natural sources - Sudipta Saha*
22	CH-O22	An environmentally benign one pot green synthesis of silica gel immobilized dithizone based 3-D microarray, {SiO <sub>2</sub> }@DZ for selective sample clean up of Cd(II) amidst several other congeners - Rimi Sarkar*
23	CH-O23	Syntheses, spectroscopic characterisation and luminescence behaviour of group 12 metal (II) complexes containing a tailored amine and varied pseudohalides - Dipu Sutradhar*, Habibar Chowdhury, Nimai Chandra Saha and Barindra Kumar Ghosh
<b>Poster presentation</b>		
1	CH-P1	Room temperature one-pot synthesis of a new series of diverse indole-uracil molecular hybrids using sulfamic acid as an organocatalyst in water - Sanchari Begam* and Goutam Brahmachari
2	CH-P2	Tyrosinase-like activity of a dinuclear Cu(II) complex - Arnab Chatterjee*, Hare Ram Yadav, Angshuman Roy Choudhury, Anzar Ali, Yogesh Singh and Rajarshi Ghosh
3	CH-P3	Detection and selective sample clean up of beryllium(II) amidst aluminum(III) and uranium(VI) by employing fluorescent assisted resin: resin's HOMO amount, a quantitative descriptor of BTC - Mousumi Chatterjee* and Bhabatosh Mandal
4	CH-P4	Relative reactivity order of thiourea and thioglycolic acid towards diaquachloro-tris-(dimethylsulfoxide)ruthenium(ii) ion in aqueous medium: a mechanistic view point - Animesh Chattopadhyay* and Alak K. Ghosh

5	CH-P5	Trivalent arsenic removal using copper(III) periodate - Budhadeb Chowdhury*, Milan Krishna Barman, Amalendu Sinhababu and Bidyut Saha
6	CH-P6	A kinetic study of $[Zn(OAc)_2(dach)_2]$ towards an amino acid at physiological pH in aqueous medium - Anwesha Dey* and Alak K Ghosh
7	CH-P7	Study of Micellar Effect on the Reaction of Manganese (vii) Oxidation of L-Sorbose in the Presence and Absence of Promoter - Ankita Dutta,* Ujjwal Mandal and Bidyut Saha
8	CH-P8	Synthesis and structural characterization of a dinuclear copper(II) complex with an (N,S,O) donor ligand: catecholase and phenoxazinone synthase activities - Ayon Kanti Ghosh*, Chandra Shekhar Purohit and Rajarshi Ghosh
9	CH-P9	Bioremediation of lead from contaminated water by using eucalyptus sawdust - Sk Mainuddin Haque*, Milan Krishna Barman and Bidyut Saha
10	CH-P10	Removal of cationic dye (safranin-o) by hydroxyethyl cellulose-graft-poly (acrylic acid) hydrogel - Subinoy Jana* and Tridib Tripathy
11	CH-P11	Kinetics, mechanism and equilibrium studies of the interaction between adenosine and cis-diaqua (2-aminomethylpiperidine) platinum(II) complex in aqueous solution - Parnajyoti Karmakar*
12	CH-P12	Ether synthesis in aqueous micellar media - Sangita Mandal* and Bidyut Saha
13	CH-P13	L-proline catalysed aldol condensation in aqueous micellar media - Swagata Mandal* and Bidyut Saha
14	CH-P14	New carbon-carbon bond formation: electrochemical reactions, green chemistry approaches and role of nano-architecture - Bibhas Mondal* and Ujjal Kanti Roy
15	CH-P15	Metal-free synthesis of mesoionic imidazo[1, 5-a] pyridines under microwave irradiation: Antibacterial potentiality, cytotoxicity and DNA Binding Studies - Titirsha Mukherjee*, Subhasish Sarkar and Suprakash Roy
16	CH-P16	Sulfamic acid-catalyzed one-pot synthesis of a new series of 3-hydroxy-1,4-dioxo-1,4-dihydronaphthalen-2-yl-2-oxindolin-3-yl pyrimidines of Biological Promise - Nayana Nayek* and Goutam Brahmachari
17	CH-P17	Sulfated hydroxyethyl starch-g-poly(N-methylacrylamide-co-acrylic acid): an efficient Hg(II) removing agent - Jagabandhu Ray* and Tridib Tripathy
18	CH-P18	8-Hydroxyquinoline immobilized silica gel, a solid phase extractor: synthesis and application as a solid phase extractant for sample clean up of trace metal ions (Cu(II), Cr(III), Co(II)) - Dipika Roy* and Bhabatosh Mandal
19	CH-P19	Facile synthetic route of indazol-3-one derivatives via $Cu^I$ -catalyzed reaction and its mesoionic characterization - Suprakash Roy*
20	CH-P20	Sources and toxicity of hexavalent chromium - Ratna Sadhukhan*, Shuvendu Sekhar Bhattacharyya and Bidyut Saha
21	CH-P21	Epoxidation of olefins catalyzed by some iron complexes - Bhola Nath Sarkar* and Rajarshi Ghosh



**Discipline: Earth Science (ES)**

<b>Oral presentation</b>		
Sl. No.	Abstract No.	Title of abstract and name of the author(s)
1	ES-O1	Study of fracture-anisotropy for delineation of groundwater recharge-zone in Precambrian metamorphics: An exemplar from Purulia District, West Bengal, India - Tapas Acharya*, Rajesh Prasad and Monalisa Mitra
2	ES-O2	Alluvial river and basin scale tectonic: A case study on the Khari river system, western Bengal basin, eastern India - Subhankar Bera* and Abhay Sankar Sahu
3	ES-O3	Groundwater potentiality assessment through morphometric analysis using geospatial technique: A case study of Dwarkeswar river basin within Bankura District, West Bengal - Rabin Chakraborty* and Subodh Chandra Pal
4	ES-O4	Changes in riverine courses and its influence on settlement in the southern part of Nadia District, West Bengal - Mitrajit Chatterjee*
5	ES-O5	Detecting and analyzing land use land cover changes and urban heat island patterns in Asansol-Durgapur Development Region, India - Deblina Choudhury* and Arijit Das
6	ES-O6	Impact of a decayed river in surrounding environment: A case study of Saraswati river of West Bengal - Biswajit Das* and Subodh Chandra Pal
7	ES-O7	Validation of the Rosgen's Bancs model for river bank erosion susceptibility: A case-study of the Damodar river between Burdwan and Jamalpur - Arunabha Mukherjee* and Somasis Sengupta
8	ES-O8	Origin, classification and utilisation of variable channel bars of Hugli river from Nabadeep to Tribeni - Deb Prakash Pahari and Pralay Mal*
9	ES-O9	Diversity in shore platform processes: A review along the shoreline sections of Neil Island, South Andaman - Anurupa Paul*, Ashis Kr. Paul and Jatisankar Bandyopadhyay
10	ES-O10	Geographical Analysis of Malaria in Bengal - Tanusri Roy*, Biplab Biswas, Soumendranath Chatterjee and Nimai Chandra Saha
11	ES-O11	The changing climate of Bengal Duars through more than 100 years trend and climatic oscillations analysis - Koyel Sam* and Namita Chakma
12	ES-O12	Determination of stage of landscape evolution through quantitative analysis of relief properties of Kharsoti basin, Jharkhand and parts of West Bengal - Bhuvan Santra*
13	ES-O13	Flood Susceptibility Mapping using Geospatial Frequency Ratio Model: a case study of Subarnarekha River Basin, India - Ratan Kumar Samanta, Pravat Kumar Shit*, Gouri Sankar Bhunia and Hamid Reza Pourghasemi
<b>Poster presentation</b>		
1	ES-P1	First report of different morphotypes of Stromatolites in Precambrian craton of Eastern India - Tapas Acharya, Atmadeep Chakraborty*, Manish Chakraborty and Archita Bhattacharyya
2	ES-P2	Tiny diatom, shining implement for carbon sequestration - Archita Bhattacharyya* and Prasenjit Majumder
3	ES-P3	Status of soil phosphorus and cropping system, Mangolkote C.D. block, Purba-Bardhaman, West Bengal - Kshudiram Chakraborty* and Biswaranjan Mistri

4	ES-P4	Earthquake: prediction and prevention - Manish Chakraborty*, Bikramaditya Mondal and Tanmay Sarkar
5	ES-P5	Formation and migration of mid channel bars with special emphasis on hydro morphological attributes: A study of Jaldhaka river, India - Md Kutubuddin Dhali*
6	ES-P6	Flood risk and vulnerability in Damodar Valley: An assessment of anthropogenic impact - Prasanta Kumar Ghosh*, Sujay Bandyopadhyay, Ritendu Mukhopadhyay and Narayan Chandra Jana
7	ES-P7	Palaeochannel identification using land holding pattern and its association using RS & GIS: A case study from selected areas of southern part of West Bengal - Sadhan Malik* and Subodh Chandra Pal
8	ES-P8	Rivers degeneration by opencast coal mining: A remote sensing and GISs based study of Raniganj coalfield, India - Sourav Mukherjee* and Deb Prakash Pahari
9	ES-P9	Hotspots-The fountain of Geothermal energy - Shibasish Mukhopadhyay*, Akash Roy and Ayan Patsa
10	ES-P10	Embankment breaching as a threat to rural livelihood: A case of Ghoramara Island, South 24 Parganas, West Bengal - Arindam Roy*
11	ES-P11	Geomorphic analysis of India administrated Kashmir and its influence on safety and security in the frontier region of India-Pakistan -Sanchita Saha* and Indrasish Mukherjee
12	ES-P12	Forest degradation monitoring and management of Jangalmahal area, West Bengal - Subrata Sarkar*, Kunal Kanti Maiti, Ismail Mondal, Nirupam Acharyya and Jatisankar Bandyopadhyay

### Discipline: Engineering (EG)

Oral presentation		
Sl. No.	Abstract No.	Title of abstract and name of the author(s)
1	EG-O1	Monitoring land use/cover change and land surface temperature - Nimish G., Shafia Ahamad*, Chandan M.C. and Bharath H. Aithal
2	EG-O2	Development of an improved fast decoupled load flow (IFDLF) algorithm for load flow study and its performance assessment - Meheebub Alam* and Mandela Gain
3	EG-O3	Membrane based system for downstream purification of gluconic acid under response surface optimized conditions - Subhamay Banerjee*, Ramesh Kumar and Parimal Pal
4	EG-O4	An optimum dynamic channel allocation strategy using bio-inspired optimization algorithm - Shambhu Nath Bhattacharya* and Sumit Gupta
5	EG-O5	Artificial intelligence and its impact on science and technology: an analysis - Jaba Chakraborty* and Kumari Niharika Singh
6	EG-O6	A critical review of methanol production from CO <sub>2</sub> : photocatalytic conversion and purification - Sankha Chakraborty*, Biswajit Ruj and Parimal Pal
7	EG-O7	Energy consumption optimization in centrifugal pump: A case study - Kalyan Chatterjee*, Priyabrata Adhikary and Asis Mazumdar

8	EG-O8	Synthesis, characterization and thermal conductivity investigation of nanofluids containing copper and silver nanoparticles - Sujoy Das* and M. M. Ghosh
9	EG-O9	A novel technique for secured transmission of intraoral image of Gingivitis disease - Joydeep Dey*, Anirban Bhowmik, Arindam Sarkar and Sunil Karforma
10	EG-O10	Study and analysis on water scarcity of drought prone district Purulia located on lower ganges basin in West Bengal, India - Kush Kumar Dey*
11	EG-O11	A comparative analysis of photonic band structure for positive and negative refractive index materials - Arpan Deyasi*
12	EG-O12	Effect of alcofine and silica fume on crumb rubber concrete (CRC) : A review - Puja Haldar*, Showmen Saha and Somnath Karmakar
13	EG-O13	Exposition of land use dynamics of Coimbatore city using Geo-informatics - Dharini Jha*, Chandan M.C., and Bharath H. Aithal
14	EG-O14	A short discussion on electromagnetic interference issues in aircraft - Abhishek Kumar*, A. P. Burnwal and Santosh Kumar Das
15	EG-O15	Separation and purification of fermentative biofuel (ethanol) using membrane based system - Ramesh Kumar*, Alak Kumar Ghosh and Parimal Pal
16	EG-O16	A new study of recovering the un-modulated lightwave by the first time rotation of the light through an electro-optic modulator used for phase modulation - Sumana Mukherjee* and Sourangshu Mukhopadhyay
17	EG-O17	Fractal image compression technique with HV partitioning and loss-less encoding - Utpal Nandi* and Jyotsna Kumar Mandal
18	EG-O18	Downstream product polishing by nanofiltration : Transport modelling of fermentation derived acetic acid - Jayato Nayak* and Parimal Pal
19	EG-O19	A simplified membrane-based solution to longstanding problems of contamination of groundwater by arsenic and fluoride - Parimal Pal, Madhubonti Pal* and Sankha Chakraborty
20	EG-O20	Electrodesiccation - Er. Faruk Bin Poyen* and Arkeya Pal
21	EG-O21	An approach to building IoT based non-invasive smart wearable device with cloud storage for continuous caring of blood sugar and blood pressure by providing nursing care unit - Patrali Pradhan* and Biswarup Neogi
22	EG-O22	Effect of bombardment of Ni and Ti atoms on Ni <sub>x</sub> Ti <sub>1-x</sub> thin film under different process parameters and its validation using classical molecular dynamics simulation - D. Roy*, S. Ghosh, S. Aich and N. Halder
23	EG-O23	Design of a basic controller using artificial neural networking and fuzzy logic to optimise performance of an SPV System - Anushka Sengupta*, Kalyan Chatterjee and Sayanti Banerjee
24	EG-O24	Performance enhancement of piezo-electric inchworm motor using input shaper - Saikat Kumar Shome*, Siddheswar Sen and Arpita Mukherjee
25	EG-O25	Urban growth characterization using geospatial technologies - Chandan M.C., Gaurav Singh* and Bharath H. Aithal

26	EG-O26	Artificial Intelligence and its Impact on Science & Technology: An Analysis - Jaba Chakraborty and Kumari Niharika Singh*
<b>Poster presentaion</b>		
1	EG-P1	12V DC pico hydro for hilly rural electrification: performance analysis by C.F.D. - Priyabrata Adhikary*, Susmita Kundu, Asis Mazumdar
2	EG-P2	Life detection system - Ananya Agrawal*, Kumar Vaibhav, Sayanti Banerjee and Kalyan Chatterjee
3	EG-P3	Microcontroller based borehole water level manager with level detector - Nouman Aziz*, Sayanti Banerjee and Kalyan Chatterjee
4	EG-P4	Energy efficient air conditioning system in large buildings and infrastructures: An era of green revolution - Sumit Bandyopadhyay*, Sanchayan Mukherjee and AsisMazumdar
5	EG-P5	Some studies on the role of few dopants on the ferroelectric behaviour of barium titanate by artificial neural network technique - Sayanti Banerjee*and Saikat Maitra
6	EG-P6	A novel technique to detect earthquake using GNSS Signals: A case study - Kalyan Chatterjee, Shiladitya Banerjee* and Sayanti Banerjee
7	EG-P7	Mobile biometric and face recognition solution - Pratyusha Bhattacharya*, Sayanti Banerjee and Kalyan Chatterjee
8	EG-P8	Implementation of security of multimedia documents using RSA encryption and watermarking - Anirban Bhowmik*, Joydeep Dey, Sunil Karforma and Arindom Sarkar
9	EG-P9	A study of human brain and its emotions - S. Sengupta, K. Bhowmick*, D. Roy and N. Halder
10	EG-P10	Light penetrates skin to check the bilirubin level - Pinak Chatterjee*, Sayanti Banerjee and Kalyan Chatterjee
11	EG-P11	Design and CFD analysis of centrifugal pump - Priyabrata Adhikary, Partha P. Chaudhuri* and S. Mukherjee
12	EG-P12	Gravity: A global real-time autonomous vehicle intelligent tracking yosemite system - Dipnarayan Das* and Sumit Gupta
13	EG-P13	Finite element analysis and optimization of crankshaft design - Priyabrata Adhikary, Raunak Das* and Mohit Kamboj
14	EG-P14	Inclusion of signal coding in radars - Saswata Das*, Soumyadeep Bhadury, Sayanti Banerjee and Kalyan Chatterjee
15	EG-P15	An all optical scheme for frequency encoded data shuffling using SOA based optical switches - Suvankar Das* and Sourangshu Mukhopadhyay
16	EG-P16	Impact of the phase value of the biasing signal on the phase modulated output of the Pockels cell in multi-passing technique - Paromita De* and Sourangshu Mukhopadhyay
17	EG-P17	Global navigation satellite system based ionospheric characterization in the region near the northern crest of equatorial ionization anomaly and beyond - Kalyan Chatterjee, Manali Dey* and Sayanti Banerjee
18	EG-P18	Ferris wheel power plant - Ananda Dhara*and Sanjib Mondal
19	EG-P19	Hydraulic modelling of water supply network using EPANET - Priyabrata Adhikary, Faiz Iqbal* and Raihan Sadri

20	EG-P20	CFD analysis of concept car for improvement of aerodynamic design - Priyabrata Adhikary, Shwet Kumar* and Ashwini Kr Mangaraj
21	EG-P21	Fundamental application of solar cell phone chargers -Sayan Mitra*, Sayanti Banerjee and Kalyan Chatterjee
22	EG-P22	New tech turns our skin into a portable and more efficient touchscreen - Soham Mondal*, Sayanti Banerjee and Kalyan Chatterjee
23	EG-P23	Global satellite based navigation system - Subhajeet Mondal*, Sayanti Banerjee and Kalyan Chatterjee
24	EG-P24	Police at your finger taps - Sayan Nag*, Sayanti Banerjee and Kalyan Chatterjee
25	EG-P25	Design and CFD analysis for pump impeller - Priyabrata Adhikary, Hironmoy Nath* and Nibir Das
26	EG-P26	Stress analysis of a hydraulic loader - Priyabrata Adhikary, Durga Prakash* and Sounak Saha
27	EG-P27	Wireless power transmission (WPT) technology's application in mobile charger circuit using inductive coupling, working principle and shortcomings, with resolution - Sayantan Roy*, Sayanti Banerjee and Kalyan Chatterjee
28	EG-P28	Android control automobile - Sourav Roy*, Sayanti Banerjee and Kalyan Chatterjee
29	EG-P29	Breast disorders detection and measurement using image processing technique - S. Sadhukhan, A. Mondal, D. Roy and N. Halder
30	EG-P30	Impact analysis of a mobile phone handset - Priyabrata Adhikary, Sounak Saha* and Durga Prakash
31	EG-P31	Smart fabric sensors and Interactive Textile Technology - Biswajeet Sarkar*, Sayanti Banerjee and Kalyan Chatterjee
32	EG-P32	Multiconstellation satellite signal characterisation near the northern crest of equatorial ionization anomaly - Subhankar Sen*
33	EG-P33	How can roads act as an alternative source of energy? - Nabarun Sengupta*, Saket Kumar Das and Sumit Gupta
34	EG-P34	An easy and fast technique to develop multi-headphone cords - Sayanananda Sengupta* and Sumit Gupta
35	EG-P35	A new study of using a saw tooth electrical signal in double and simultaneous phase modulation of KDP based electro-optic modulator - Roshni Siddique*and Sourangshu Mukhopadhyay
36	EG-P36	Face recognition using neural networks - Aniruddha Sinha*, Sayanti Banerjee and Kalyan Chatterjee
37	EG-P37	Thermal Analysis of Halogen Flood Lamp - Priyabrata Adhikary, Yaman Srinivas* and Srinjay De

### Discipline: Environmental Sciences (EN)

Oral presentaion		
Sl. No.	Abstract No.	Title of abstract and name of the author(s)
1	EN-O1	Building sustainability performance index in paper industry: a fuzzy based decision making approach – Sanghita Basu*, Mousumi Roy and Parimal

		Pal
2	EN -O2	Acute toxicity and behavioural responses of Oligochaete worm <i>Tubifex tubifex</i> to a surfactant sodium dodecyl sulphate - Ritwick Bhattacharya* and Nimai Chandra Saha
3	EN -O3	Waste management of <i>Eichhornia crassipes</i> and kitchen waste by anaerobic co-digestion for energy production - Indranil Bhui*, Arijit Ghosh, Triratna Moktan, Shibani Chaudhury, and Srinivasan Balachandran
4	EN -O4	Chronic exposure to biomass fuel smoke is associated with increased high blood pressure, respiratory tract obstructions, and symptoms of hypoglycemia and anaemia among rural women - Deep Chakraborty* and Naba Kumar Mondal
5	EN -O5	Biogas production from codigestion of fruit waste and cow manure - Amit K Chakraborty*, S. Balachandran, and Shibani Chaudhury
6	EN O6	Parabens- The silent killer- An overview - Ananya Chaudhuri*, Anwesa Chaudhuri and Jayanta Maity
7	EN -O7	Seasonal variation of ambient particulate matter and heavy metals at a semi-urban area of Bolpur, West Bengal - Mallika Chowdhury*, Suraj Ghosh and Pratap Kumar Padhy
8	EN -O8	A comparative study of leaf litter degradation through kinetic modeling of few selected tree species of a subtropical forest, Burdwan, West Bengal - Chittaranjan Das* and Naba Kumar Mondal
9	EN -O9	A biogenic approach towards synthesis and characterization of zinc oxide nanoparticles and its effective utilization towards removal of methylene blue dye from aqueous solution - Priyanka Debnath* and Naba Kumar Mondal
10	EN -O10	Assessment & quantification of plastics waste generation in some areas of Durgapur - Sibashis Dey* and Kuntal Bhattacharya
11	EN -O11	Aerobic and anaerobic bacterial diversity in As contaminated sites of Brahmaputra river basin: role in As mobilization - Soma Ghosh* and Pinaki Sar
12	EN -O12	Synthesis of Copper Nanoparticles (CuNPs) from leaves extract of harmful weed <i>Parthenium hysterophorus</i> and their effective use as a control tool against filarial vector, <i>Culex quinquefasciatus</i> - Amita Hajra* and Naba Kumar Mondal
13	EN -O13	Vegetation data analysis and measurement of carbon sequestration potential of some tree species at Ballavpur wildlife sanctuary, Santiniketan - Dipti Karmakar* and Pratap Kumar Padhy
14	EN -O14	A geospatial appraisal of landslide hazard and vulnerability in a new conceptual framework - Harjeet Kaur*, Srimanta Gupta, Surya Parkash and Raju Thapa
15	EN -O15	Potentiality of floating macrophytes ( <i>Lemna minor</i> and <i>Azolla</i> sp.) towards bioaccumulation of Cr (VI) from aqueous medium - Pragya Kumari*, Apurba Ratan Ghosh and Naba Kumar Mondal
16	EN -O16	Effects of water quality on reeling performance and raw silk yarn quality in an automated reeling unit in Murshidabad - Somdip Majumdar*
17	EN -O17	GEOSS: a methodology of sample collection for air pollution over different LULC types - Biplab Biswas and Kamonasish Mistry*
18	EN -O18	Single pot synthesis of silver nanoparticles (AgNPS) using <i>Colocasia esculenta</i> plant extract: an inexpensive technique - Arghadip Mondal* and

		Naba Kumar Mondal
19	EN -O19	Adverse influence of chronic benzene treatment on testicular structure and sperm profile in a murine model - Souryadeep Mukherjee*, Nimai Chandra Saha and Nirmal Kumar Sarkar
20	EN -O20	Impact of fluoride on water quality and biochemistry of vegetables leaf and fruits collected from Khoyrasole block of Birbhum district, West Bengal - Kartick Chandra Pal* and Naba Kumar Mondal
21	EN -O21	Predicted equations of the pulmonary function of school going children using spirometry data - Suraj Ghosh, Rumi Rabha*, Mallika Chowdhury and Pratap Kumar Padhy
22	EN -O22	Life table and economic threshold concept for ecological management of Bihar hairy caterpillar on jute - Nayan Roy*
23	EN -O23	Building sustainability performance index in paper industry: a fuzzy based decision making approach – Sanghita Basu, Mousumi Roy* and Parimal Pal
24	EN -O24	Sensitivity analysis of environmental efficiency for input-oriented DAE: A case study - Parag Sen*, Mousumi Roy and Parimal Pal
25	EN -O25	Prototype for water quality enhancement in flood effected areas – S. K.Shome*, B Kumar, S. Jain and U. Datta
26	EN -O26	Facts and findings of fluoride: an insight into quaternary aquifer - Raju Thapa*, Srimanta Gupta, D. V. Reddy and Harjeet Kaur
<b>Poster presentaion</b>		
1	EN -P1	Development of water management model in rice fields - Rituparna Banerjee*, Ayan Mondal, Sohini Gangopadhyay, Sunanda Batabyal and Sudipto Mandal
2	EN -P2	Impact of urbanization on green patch dynamics of Burdwan Municipality, West Bengal, India - Sunanda Batabyal*, Ayan Mondal, Rituparna Banerjee, Sohini Gangopadhyay and Sudipto Mandal
3	EN -P3	Innovative approach towards sustainable development - Pinaki Chattopadhyay*
4	EN -P4	Global warming in relation with deadly insect borne diseases - Partha Roy Chowdhury*, Sharmistha Gupta and Mithun Mukherjee
5	EN -P5	Manufacture of hydrocarbon fuels utilizing renewable energy sources - Gautam Tarafder*, Jayanta Kumar Das and Prasanta Mukhopdhyay
6	EN -P6	Biosynthesis of silver nanoparticles by fungi isolated from soil and its antifungal activity against some selected plants - Richa Das*, Deep Chakraborty and Naba Kumar Mondal
7	EN -P7	The battle against food crime and adulteration - A review - AbhikJoy Dhar*
8	EN -P8	Spatio-temporal distribution of black carbon over three different land use site of Burdwan district, West Bengal - Debjani Dutta* and Srimanta Gupta
9	EN -P9	Predicted equations of the pulmonary function of school going children using spirometry data - Suraj Ghosh*, Rumi Rabha, Mallika Chowdhury and Pratap Kumar Padhy
10	EN -P10	Cosmetic beauty products and human health - Ipsita Ghosh*
11	EN -P11	Should we allow GM-Crops in our environment? - Owutwirna Ghosh*
12	EN -P12	Phytotoxicity of silver nanoparticles of three aquatic floating macrophytes ( <i>Lemna minor</i> , <i>Eichhornia</i> sp., and <i>Pistia</i> sp.) - Kumari Guddi* and Naba Kumar Mondal
13	EN -P13	Titanium-dioxide nanoparticles (TiO <sub>2</sub> -NPS) induced histological and

		biochemical alterations in the target organs of <i>Pila globosa</i> (Swainson, 1822) - Mousumi Kumar*, Subinay Mandal, Debraj Kole, Niladri Sekhar Mondal, Atanu Patra, Arghya Mandal, and Apurba Ratan Ghosh
14	EN -P14	Impact of atmospheric dust on morphology of Kalmegh ( <i>Andrographispaniculata</i> ): King of bitters - Chandan Kumar Majee* and Pratap Kumar Padhy
15	EN -P15	Effects of wireless network radiation on environment with special emphasis on human, plants and birds health in few selected areas of Burdwan and Hooghly district - Debojyoti Mishra* and Naba Kumar Mondal
16	EN -P16	Geospatial modeling of iron contamination in groundwater of Burdwan district, West Bengal – Swapna Rajak*, Srimanta Gupta, Raju Thapa and Harjeet Kaur
17	EN -P17	Comparative analyses of phytochemical compounds, antioxidant activity and antibacterial property of aqueous and methanolic extracts from stem bark of <i>Alstonia scholaris</i> L. R.Br. - Souparno Roy*, Archan Paul and Souryadeep Mukherjee
18	EN -P18	Lichen: A natural sponge - Prateeti Roy* and Naba Kumar Mondal
19	EN -P19	Phytotoxicity of gold nanoparticles on rice ( <i>Oryza sativa</i> L.) Seedlings with special emphasis on morphology and biochemical analysis - Puja Sain* and Naba Kumar Mondal
20	EN -P20	Optimization study of chloropyrifos adsorption by two varieties of sediments through Response Surface Methodology - Kamalesh Sen* and Naba Kumar Mondal
21	EN -P21	Isolation and characterization of hexavalent chromium (Cr(VI)) resistant bacterial strain from soil of Dhapa, West Bengal (India) – Sampa Debnath and Amrita Sengupta*
22	EN -P22	Mosquito control: An ecofriendly approach - Sumona Halder* and Shampa Dutta
23	EN -P23	Cellphone radiation and memory loss: A review - Animesh Mondal* and Naba Kumar Mondal

### Discipline: Mathematics (MA)

Oral Presentation		
Sl. No.	Abstract No.	Title of abstract and name of the author(s)
1	MA-O1	Fuzzy compact linear operator - S. Chatterjee*, T. Bag and S. K. Samanta
2	MA-O2	Mass deformed soliton solution of generalized KdV equation induced from position dependent effective mass quantum models - Amiya Das*
3	MA-O3	Modeling and analysis of an eco pidemiological system with hyperbolic mortality in infected predator - Kunal Das*, Kunal Chakraborty and T. K. Kar
4	MA-O4	A generalized contraction map and its fixed point over S-metric space - Debashis Dey* and M. Saha
5	MA-O5	A new approach towards the growth of single species population system - Soovoojeet Jana*



6	MA-O6	On type 2 generalised fuzzy soft sets and its application in medical diagnosis - Debalina Jash* and Pinaki Majumdar
7	MA-O7	Multi-criteria generalized assignment problem based on hesitant Fuzzy Weighted Geometric Operator - Supriya Kar*, Kajla Basu and Sathi Mukherjee
8	MA-O8	Solution of welded beam design problem based on fuzzy geometric programming - Neha Kumari*, A. P. Burnwal and Santosh Kumar Das
9	MA-O9	A data encryption technique using fuzzy fibonacci sequence - Pinaki Majumdar* and Sudipto Sinha
10	MA-O10	Multi-attribute decision making using new similarity measure for interval-valued intuitionistic fuzzy data - Sathi Mukherjee*
11	MA-O11	Alteration of T wave shape in acute myocardial infarction - Ujjal Kumar Mukherjee*, Arnab Sengupta, Damodar Prasad Goswami and Sharmistha Sikdar
12	MA-O12	Analysis of an epidemic model with two infectious disease and optimal treatment - Swapan Kumar Nandi* and Soovoojeet Jana
13	MA-O13	Positron scattering from hydrogen atom interacting with exponential cosine-screened Coulomb potentials: Positronium formation in the Rydberg states - Pramit Rej* and Arijit Ghoshal
<b>Poster presentation</b>		
1	MA-P1	Interval neutrosophic sets and its application in decision making - Sudip Bhattacharyya* and Pinaki Majumdar
2	MA-P2	Relations and of scale factor for different dark energy models with time: A brief analysis - Promila Biswas*
3	MA-P3	Ricci solitons on Ricci pseudosymmetric Sasakian manifolds - Shyamal Kumar Hui and Debabrata Chakraborty*
4	MA-P4	Uses of Gopala-Hemachandra universal code in cryptography - Monojit Das* and Manjusri Basu
5	MA-P5	Fate of an accretion disc around a black hole when both the viscosity and dark energy is effecting - Sandip Dutta*
6	MA-P6	A behavioural study on street food of College Street, Kolkata, West Bengal - Sudip Ghosh*
7	MA-P7	Mathematical nature regarding the behaviour of an object affected by other - Binay Krishna Maity*
8	MA-P8	Critical behavior of black holes: A general approach - Abhijit Mandal*
9	MA-P9	Optimizing production mount of food in productions system based on fuzzy programming approach - M. K. Mandal*, A. P. Burnwal, Abhishek Kumar and Santosh Kumar Das
10	MA-P10	Empirical search for a normal heart rate - Kartick Mondal*, Damodar Goswamui and Sudipta Sinha
11	MA-P11	Industrialisation: An assessment study in Durgapur region - Sk.

		Samim Ferdows* and Joydeep Dey
12	MA-P12	Benford's Law: An interesting mathematical phenomenon - Sudipta Sinha* and Damodar Prasad Goswami

**Discipline: Medical Science (MS)**

<b>Oral presentation</b>		
Sl. No.	Abstract No.	Title of abstract and name of the author(s)
1	MS-O1	Insight into a unique non-pathogenic variant of <i>Bacillus anthracis</i> : probable weapon against anthrax - Aparna Banerjee* and Rajib Bandopadhyay
2	MS-O2	Anaemia and Homoeopathy - Suman Chakraborty*, Sharmistha Gupta and Monojit Kundu
3	MS-O3	RP-HPLC analysis of alkaloid compound and antioxidant activity of <i>Centella asiatica</i> (L) - Sumanta Das*, Shouvik Chakravarty, Kaniz Wahida Sultana, Mousumi Koner and Indrani Chandra
4	MS-O4	Prevalence of major cardiovascular diseases risk factors among school going Asian Indian children and adolescents - Partha Sarathi Datta*
5	MS-O5	Bengali questionnaire validation among geriatric population visiting homeopathic hospital and subsequent open observational trial evaluating effectiveness of homeopathic treatment- Kaushik Deb Das*, Sutanu Patra, Munmun Koley and Subhranil Saha
6	MS-O6	<i>Ludwigia adscendens</i> L - A novel male herbal contraceptive - Subhasish Ghosal*, Nirmal kr Pradhan and Indrani Chakraborty
7	MS-O7	Drug proving process in homoeopathy- Monojit Kundu*, Sharmistha Gupta and Suman Chakraborty
8	MS-O8	Observations on the morphometry and sexual dimorphism of nasal aperture and nasal index in contemporary Indian Bengali skulls - Parthapratim Mukhopadhyay*
9	MS-O9	Significance of fibronectin induced MMP-1 in progression of human prostate adenocarcinoma cells - Sekhar Pal* and Amitava Chatterjee
<b>Poster presentation</b>		
1	MS-P1	ZnO nano particle: A noble drug to cancer- Swarnava Banerjee*, Preetha Bhadra and Sampad Mukherjee
2	MS-P2	NiO Nano Particles: A Potential Treatment for the Cancer- Sudip Banik*, Preetha Bhadra and Sampad Mukherjee
3	MS-P3	CuO Nano Particle: A Useful Drug to Cancer- Sidhartha Chakraborty*, Preetha Bhadra and Sampad Mukherjee
4	MS-P4	HeartMate: A smart watch to monitor heart rate, blood pressure and body temperature and predict emotion- Saket Kumar Das*, Nabarun

		Sengupta and Sumit Gupta
5	MS-P5	Preparation and evaluation of Ibuprofen solid dispersed tablets for enhanced dissolution rate - Debraj Dey* and Sreejan Manna
6	MS-P6	Anti-Microbial Activity of NiO, a potential drug to the microbes- Sangita Karar*, Preetha Bhadra and Sampad Mukherjee
7	MS-P7	A study of Fasting Blood Glucose level higher than Post meal in healthy individual.- Saswati Nandan*, Utsha Senapati, Sohan Roy and Krishnendu Adhikary
8	MS-P8	Pharmacological uses of <i>Catharanthus roseus</i> (Apocynaceae) - Suvojit Nandy*, Pranay Karmakar, Debanka Sekhar Mishra and Prithviraj Karak
9	MS-P9	A comparative study of antibody titres in “O” blood group population of north east and eastern Indian population - Sohan Roy*, Pranjul Dutta, Parbati Saw, Ipshita Nag and Krishnendu Adhikary
10	MS-P10	Anti-microbial activity of CuO nano particles - Soumajit Sen*, Preetha Bhadra and Sampad Mukherjee

### Discipline: Physiology (PG)

Oral Presentation		
Sl. No.	Abstract No.	Title of abstract and name of the author(s)
1	PG-O1	Amelioration of diabetes induced histopathological changes in most vulnerable organs by herbal extract of <i>Jussiaea repens</i> - Soumitri Bhowmik*, Nirmal Pradhan, Ayon Roy, Tasneem Khandekar, Indrani Chakraborty, Subhasish Ghosal and Pranabesh Chakraborty
2	PG-O2	Effect of music on blood pressure in girls students in urban area: A pilot study - Deepneha Das* and Abhijit Bandyopadhyay
3	PG-O3	Smoking and health effects: An overview of research trends - Ratnadipa Halder*, Rajkumar Maiti and Prithviraj Karak
4	PG-O4	Phytochemical and pharmacological property of kalmegh: A review - Pranay Karmakar*, Abhinaba Gupta and Prithviraj Karak
5	PG-O5	Protective effects of a Pro-Drug Based Peptide (PDP) on amyloid A $\beta$ 40 induced neurodegeneration, memory impairments and neuronal apoptosis in rat model of Alzheimer's disease - Sourav Kumar <sup>1</sup> *, Anup Kumar Ghosh and Amal Chandra Mondal
6	PG-O6	Physiological profile of young adolescent boxer of West Bengal, India - Anindita Mandal (Majee)* and Sovana Banik
Poster presentation		
1	PG-P1	Possible hepatoprotective effect of <i>Coccinia grandis</i> against mono sodium glutamate (MSG) mixed high lipid diet (HLD) induced

		changes in rat model - Arnab Banerjee*, Debasmita Das, Ankita Bhattacharjee, Sandip Mukherjee and Bithin Kumar Maji
2	PG-P2	Oral corticosteroids in acute asthma and cognitive impairment: possible implications - Arpan Bhattacharyya*, Nirmal Kumar Pradhan and Aditi Mukhopadhyay
3	PG-P3	Enzymatic genetic evolutionary changes accompanied by tyrosyl t-RNA synthetase and therapeutic genomic modification of toxic cancerous cell - Moumita Ghosh*, Debapriya Ghosh and Nupur Pandit
4	PG-P4	Evaluation of pulmonary function test among petrol pump workers in Bankura district, West Bengal - Prithviraj Karak*, Meghna Sen and Mampi Mondal
5	PG-P5	Effect of adrenaline related stress on increasing blood sugar - Nita Patra Karmakar* and Dipa Patra Karmakar
6	PG-P6	<i>Jussiaea repens</i> prevent the Alloxan induced diabetes mellitus – A biochemical study - Tasneem Khandekar*, Ayon Roy, Soumitri Bhowmik, Maitrayee Mukherjee, Nirmal Pradhan, Indrani Chakraorty, Subhasish Ghosal and Pranabesh Chakrabarty.
7	PG-P7	Avoidance of healthy diet is attributing to cognitive failure: a perspective on ADHD - Aditi Mukhopadhyay*, Nirmal Kumar Pradhan and Arpan Bhattacharyya

### Discipline: Physics (PH)

Oral Presentation		
Sl. No.	Abstract No.	Title of abstract and name of the author(s)
1	PH-O1	Elastic behaviour of gills in <i>Mystus vittatus</i> when exposed to ZnS nanoparticle - Baibaswata Bhattacharjee* and Nilanjana Chatterjee
2	PH-O2	Optical and electrical characteristics of ZnO nanowires - S.R. Bhattacharyya
3	PH-O3	Kerr based all-optical Dabit De-Multiplexer - Subhendu Biswas* and Sourangshu Mukhopadhyay
4	PH-O4	Dielectric and electrical characterization of Mn:ZnO nanostructures synthesized by mechanical alloying - Arup Dhara*, Sumanta Sain, Sachindranath Das and Swapan Kumar Pradhan
5	PH-O5	Structural and electrical properties of $YCr_{1-x}Mn_xO_3$ (X = 0.0, 0.1, 0.2, 0.4, 0.5) - Kajal Maji* and D.Pal
6	PH-O6	Visible light photocatalytic study of $TiO_2$ - $CeO_2$ nanocomposite synthesized by one step mechanical alloying method - Rajib Kumar Mandal*, M.Ghosh and Swapan Kumar Pradhan
7	PH-O7	Studies of Size dependent photoluminescence property of ZnO nanoparticle - Surajit Mandal*
8	PH-O8	Photon blockade effect in a cavity optomechanical system induced by a nonlinear photonic crystal - Kousik Mukherjee* and Paresh Chandra Jana

9	PH-O9	Weak magnetic field effect on neutrino emissivity - Kausik Pal*
10	PH-O10	Effect of microstrain on electrical conductivity of ball milled CuO doped zirconia nanopowders - Sourav Saha*
11	PH-O11	Synthesis and optical properties of undoped and copper doped zinc oxide nanoparticles - P. K. Samanta*, A. K. Mandal, S. Mishra, S. Saha and T. Kamilya
12	PH-O12	Effect of B-Site disorder on ferromagnetic phase transition in $\text{Sm}_{0.55}\text{Sr}_{0.45}\text{MnO}_3$ - Prosenjit Sarker* and Prabhat Mandal
<b>Poster presentation</b>		
1.	PH-P1	Microscopic camera that records the photos of the digestive tract inside the Human Body - Rajat Agarwal*, Sayanti Banerjee and Kalyan Chatterjee
2.	PH -P2	Optical nanofiber: A smart detector and an emerging biosensor - Preetha Bhadra*, Chitragada Das Mukhopadhaya and Sampad Mukherjee
3.	PH -P3	Use of optical kerr medium for the major change of light frequency up to a desired value - Agnijita Chatterjee* and Sourangshu Mukhopadhyay
4.	PH -P4	Experimental and theoretical investigation of charge transfer complex between zinc tetraphenylporphyrin and some aromatic solvents - Somnath Chowdhury*, Prajna Mukherjee, Biswajit Roy, Mihir Ghosh, Koushik Majhi, Subrata Sinha and Bikash C. Gupta
5.	PH -P5	Solventless synthesis of hematite nanoparticles - Anubha Dey* and Ashis Bhattacharjee
6.	PH -P6	Information entropy as a measure of matter-wave localization in quasi-disorder potentials - Kajal Krishna Dey and Golam Ali Sekh*
7.	PH -P7	A new proposal of 1 <sup>st</sup> type quantum SRZ gate and its phase encoded implementation - Shuvra Dey* and Sourangshu Mukhopadhyay
8.	PH -P8	Cation distribution, microstructure characterization and optical properties of mechanosynthesized mixed spinel type Zinc aluminate nanoparticles - G. Maity* and S.K. Pradhan
9.	PH -P9	A ROF Transport System using Phase & Polarization Modulation Based on OFDM Technique - Khaleda Mallick* and Ardhendu Sekhar Patra
10.	PH -P10	Tunable UV radiation generation by Type-I SHG of dye laser in BBO crystal - Sreya Pal* and A.M.Rudra
11.	PH -P11	Surface Magneto-optical Kerr effect and its application in the study of thin ferromagnetic film - Mouli Roy Chowdhury
12.	PH -P12	Spectroscopic investigations of organic-inorganic hybrid layer-by-layer electrostatic self-assembled film of cationic dye methylene blue and a clay mineral - Tanmoy Singha*, Utsav Chakraborty, Chaitali Hansda and Pabitra Kumar Paul

**Discipline: Social Science and IPR (SI)**

<b>Oral presentation</b>		
Sl. No.	Abstract No.	Title and name of the authors
1	SI-O1	Tagore's vision of rural reconstruction and community development - Shahina Ali*
2	SI-O2	Why is Happiness Economics relevant? - Arundhati Bhattacharya*
3	SI-O3	Emerging spoke and ring villages around the city hub of small and medium size towns - Sayani Bosu*, and Sanat Kumar Guchhait
4	SI-O4	Traditional Knowledge Protection in India through Geographical Indications Registration – Padmavati Manchikanti and Priyanka Chakraborty*
5	SI-O5	Understanding depression from child psychology: Treating as social-interaction and eustress - Rituparna Chatterjee* and Sumit Nath
6	SI-O6	Growth in post reform India, the issue of inclusiveness and the lessons from the Chinese experiences - Dilip Kumar Chatterjee*
7	SI-O7	Cruelty on Married Women: Causes and Remedies - Rakhi Chowdhury* and Sekhar Sil
8	SI-O8	Inquiring the Reverse Trend - Anusree Das*
9	SI-O9	Geospatial Approach for the Assessment of Urban Growth: a Case study of Jamshedpur – Asish Dhara*, Biplab Biswas
10	SI-O10	An alternative approach to solve the unemployability of engineering students - Bitan Ghosh* and Partha Pratim Sarkar
11	SI-O11	Some aspects of social entrepreneurship in West Bengal - Amir Jafar and Anjan Kumar Ghosh*
12	SI-O12	Observations on Ethnomedicinal Uses of Natural Resources to Treat Poisonous Bite and Stinging by the Rural People of Purulia District, West Bengal - Partha Gorai* and Biplob Kumar Modak
13	SI-O13	Ethno-medicinal Remediation of Kidney Stone and Bile Stone by the tribal people of Purulia District, West Bengal - Sanjib Gorain*, Partha Gorai and Biplob Kumar Modak
14	SI-O14	Why and how to shift to python language in Indian education system and research to overcome employment skill crisis - Col P Jai Govind*
15	SI-O15	Environmental consequences of unplanned growth of settlement in rajpursonarpur municipal areas, S. 24 parganas: a case study - Pompa Moadal* and Tapas Mistri
16	SI-O16	Future of West Bengal in animal husbandry - Paramita Mukherjee*
17	SI-O17	Modalities in delivery of nutritional product towards vulnerable group in rural areas by organizing attitude development programme for sanitation and hygiene (Under Swachh Bharat Abhiyan) of the Self Help Groups - NajmunNahar*, Sunita Adhikary (nee Pramanik) and Utpal Raychaudhuri
18	SI-O18	Ponds in Urban Area: Use and Misuse - A Case Study of Bardhaman Municipality - Debmita Nandi*, Samsun Nehar and Sumana Sarkar
19	SI-O19	Women Empowerment through Sericulture: A case study from Purulia District, West Bengal - Sumit Nath* and Biplob Kumar Modak
20	SI-O20	Change Detection in Forest Cover Types with Geospatial techniques: A case study of Sonamukhi, Bankura - Prasenjit Pal* and Biswaranjan Mistri

21	SI-O21	Anthropological Approach to Study of Inland Fishery - Soumitra Panda*
22	SI-O22	19 <sup>th</sup> century Bengal: Journey towards 'Indianization' of medical science against colonizing process of Britishers - Shravasti Pathak*
23	SI-O23	Spatial and temporal aspects of population distribution in Purulia district, West Bengal: an analysis of two decades (1991-2011) – Sathi Sampad Roy* and N. C. Jana
24	SI-O24	Different facets of migration: Tale of non-Bengali informal labours in Kolkata City - Sumita Roy*
25	SI-O25	A co-relation between Environmental and Socio-economic factors about sanitary napkin usage and related diseases among women of slums of Burdwan Municipality - Senjuti Mallik* and Sumana Konar
26	SI-O26	Emotional Intelligence and Academic Achievement of Higher Secondary School Students- Basudeb Roy Chaudhury*
<b>Poster presentation</b>		
1	SI-P1	Able bodies and companion species: re-thinking animals in children Hollywood movies – Suranjana Bhadra*
2	SI-P2	The Changing Scenario of Urbanization Pattern in Kolkata Metropolitan Region: Towards Re-imagining the Urban System - Susmita Bhowmick* and Lakshmi Sivaramakrishnan
3	SI-P3	Cropping System and Soil Organic Carbon in Purbasthali-II C.D. Block, Purba-Bardhaman, West Bengal – Kshudiram Chakraborty* and Biswaranjan Mistri
4	SI-P4	Aerobic Treatment of Effluents from the Electronics Industry - Mounodip Chakraborty*, Sayanti Banerjee and Kalyan Chatterjee
5	SI-P5	Participation of Farming Households in Prawn and Shrimp Seed Collection from Inundated Land on Bank of river Rupnarayan in Purba Medinipur – Shyamal Dogra*
6	SI-P6	Application of Geospatial Technique for Monitoring Changes in Vegetation Cover Using Different Vegetation Indices: A Case Study of Burdwan Block I & II of Purba Bardhaman District – Sanu Dolui* and Sumana Sarkar
7	SI-P7	Acid Attack - A Heinous Crime - Mandira Dutta*, Pradyumna Ku. Tripathy and Madhumita Roy
8	SI-P8	Study on the socio-economic, environmental and health status of a village of East Bardhaman, West Bengal - A case study - Koushik Dutta*
9	SI-P9	Vivid Culture of the Land of Black Diamond: A Study of Cultural Diversity in Coal Mining Areas of Raniganj, West Bengal - Payel Ghosh*
10	SI-P10	Status of Maternal Risk Factors in Murarai-I C.D. Block, Birbhum District - Alokanda Ghosh* and Biswaranjan Mistri
11	SI-P11	Demographic Profile of Totopara, West Bengal - Arup Majumder*
12	SI-P12	Will the Developmental Paradox in Developing States Escape the Perpetual Mode of Development? An Investigation through the Mirror of Micro, Small and Medium Enterprises in West Bengal, India - Papiya Manna* and Tapas Mistri
13	SI-P13	Child Marriage in Md Bazar C.D. Block, Birbhum District, West Bengal: A Study on the light of Sustainable Development Goals 2030 – Rabiul Hoque Molla* and Biswaranjan Mistri
14	SI-P14	Application of geo spatial techniques to measure the rate of urbanization and its effect on environment - Nabanita Mukherjee* and Giasuddin Siddique

15	SI-P15	Automated Fertilization Process in Agriculture - Arkeya Pal* and Er. Faruk Bin Poyen
16	SI-P16	Determinants of birth intervals in urban and rural areas of Madhya Pradesh - Ayan Pal* and Shankar Dihidar
17	SI-P17	Ameliorating rural livelihood in an inclusive way: Experience of the Mahatma Gandhi national rural employment guarantee act in West Bengal - Amartya Pani* and Pulak Mishra
18	SI-P18	Rural-Urban Households' Access to Basic Amenities in Murshidabad District, West Bengal - Kiran Kumar Roy*
19	SI-P19	People's participation in Mokata micro-watershed project of Ausgram-II Block, East Burdwan District, West Bengal, India - Raj Kumar Samanta*
20	SI-P20	Livelihood pattern of the Rabha community in West Bengal, India - Arpita Sarkar* and Tapas Mistri
21	SI-P21	Social Relations in Education of Saltora C.D. Block, Bankura District: A Study Looking beyond Inertia - Ayanika Sarkar* and Biswaranjan Mistri
22	SI-P22	Systematic Approach of Water Resource Management: A Case Study of Matidundra Village, Purulia District, West Bengal- Subhendu Sengupta* and Amit Sahoo
23	SI-P23	Patterns of Commuting in West Bengal - Bhaswati Mondal*
24	SI-P24	Spatial structure and intensity of expansion of human settlement: a case study on Salanpur c.d. Block, Paschim Bardhaman district, West Bengal - Sumana Nandi* and Tapas Mistri

### Discipline: Zoology (ZO)

Oral presentation		
Sl. No.	Abstract No.	Title of abstract and name of the author(s)
1	ZO-O1	Biocontrol of coastal filarial vector <i>Culex quinquefasciatus</i> by indigenous <i>Bacillus thuringiensis</i> strain DSB27 (KX130958) isolated from Digha, West Bengal, India - Syed Afrin Azmi*, Soumendranath Chatterjee and Nimai Chandra Saha
2	ZO-O2	Avifaunal diversity in Chinsurah rice research institute and Chinsurah riverside of Hooghly District - Somjit Banerjee*
3	ZO-O3	Mosquito larvicidal activity of pineapple leaves against the filarial vector <i>Culex quinquefasciatus</i> - Kuntal Bhattachary* and Goutam Chandra
4	ZO-O4	Dimethoate induced toxicity and enzymatic changes on <i>Clarias gariepinus</i> - Arnab Chatterjee* and Nimai Chandra Saha
5	ZO-O5	Evaluation of Antiproliferative and Cytotoxic Effects of Aerial Parts' Aqueous Extract of <i>Synedrella odiflora</i> (L.) Gaertn. On Wistar Rat Bone Marrow Cells - Saumabha Chatterjee* and Sanjib Ray



6	ZO-O6	Histoarchitecture, distribution and organization of gonadotrophic cells in the pituitary gland of <i>Notopterus notopterus</i> (Pallas, 1769) in relation to maturation of ovary - Srimoyee Hazra Chowdhury* and Padmanabha Chakrabarti
7	ZO-O7	Polymorphism of MCP-1 2518 A/G and P2X7 1513 A/C gene with increased susceptibility to tuberculosis in the tribes of Jhargram, West Bengal, India - Rituparna De* and Jayanta Kumar Kundu
8	ZO-O8	Isolation, Identification and Characterization of Cellulolytic Bacterium <i>Bacillus flexus</i> SWO4 from Benthic Soil of Pisciculture Farm in East Kolkata Wetlands - Arijit De*, Souryadeep Mukherjee, Gobinda Chandra Sadhukhan and Nimai Chandra Saha
9	ZO-O9	Studies on histology and ultrastructure and of <i>Paramphistomum cervi</i> infecting goat in Hooghly district of West Bengal - Puja Dutta, Ankita Dey and Chiranjeeb Dey*
10	ZO-O10	Habitat selection and thermoregulation in Indian flying fox ( <i>Pteropus giganteus</i> ): A study from Purulia District, West Bengal - Somenath Dey*
11	ZO-O11	Late winter study on avifaunal diversity from Buxa Tiger Reserve, Alipurduar, West Bengal, India - Koushik Ghosh*
12	ZO-O12	Toxicity of cypermethrin on Indian major carp <i>Labeo rohita</i> – Rajib Majumder* and Anilava Kaviraj
13	ZO-O13	Fluoride adversely affects reproductive physiology of <i>Drosophila melanogaster</i> - Salma Khatun* and Sumedha Roy
14	ZO-O14	Acephate toxicity and male reproduction in <i>Drosophila melanogaster</i> - Moutushi Mandi*, Prem Rajak and Sumedha Roy
15	ZO-O15	Fresh water crabs of West Bengal, its diversity, economic evaluation and conservation - Santanu Mitra
16	ZO-O16	Potentiality of <i>Barringtonia acutangula</i> as antibacterial agent - Devaleena Mukherjee* and Goutam Chandra
17	ZO-O17	Studies on ecological degradation due to anthropogenic disturbances and its effect on changing socio-economic status of river side fishermen community of river Churni, West Bengal - Ashis Kumar Panigrahi* and Avijit Bakshi
18	ZO-O18	Stress response assessment of sub-lethal exposure to fluorinated insecticide Cryolite in <i>D. melanogaster</i> - Sayanti Podder*, Saurabh Sarkar and Sumedha Roy
19	ZO-O19	The chronicles of platypus venom serine proteases: The first insight into the ancient mammalian venom system specific protein architecture for drug discovery - Subhamay Panda* and Goutam Chandra
20	ZO-O20	Mosquito Larvicidal Potentiality of Climbing Shrub <i>Capparis zeylanica</i> Leaf Extracts on the Japanese Encephalitis Vector <i>Culex vishnui</i> As Target Organism - Anushree Singha Ray* and Goutam

		Chandra
21	ZO-O21	Rice Field Mosquitoes of Khanyan, Hooghly Region as a Geographic Model Area - Milita Roy*, Soumendranath Chatterjee and Gautam Aditya
22	ZO-O22	Spatiotemporal occurrence of odonata fauna with reference to habitat quality from two different study sites of Durgapur, Paschim Bardhaman, West Bengal - Utpal Singha Roy*
23	ZO-O23	Evaluation of Acute Toxicity and Behavioral Responses of <i>Oreochromis mossambicus</i> (Linn.) Exposed to Captan - Shubhajit Saha*, Dip Mukherjee, Kishore Dhar and Nimai Chandra Saha
24	ZO-O24	GIS mapping and breeding habitat characterization of anophelines occurring in malaria endemic areas of Hooghly District, West Bengal, India - Madhurima Seal*, Debprakash Pahari, Soumendranath Chatterjee and Nimai Chandra Saha
25	ZO-O25	On a new species of <i>Aplectana</i> (Nematoda: Cosmocercidae) from Indian Skipper Frog, <i>Euphlyctis cyanophlyctis</i> (Amphibia: Anura: Dicroglossidae) from Raniganj, Paschim Bardhaman, West Bengal, India - Sujan Kumar Sou* and Anadi Prasad Nandi
26	ZO-O26	Larvicidal, pupicidal and smoke toxic activity of <i>Barleria lupulina</i> (Acanthaceae) leaf against the vector of Japanese Encephalitis <i>Culex vishnui</i> (Theobald 1901) - Aniket Singh* and Goutam Chandra
27	ZO-O27	Extracellular tannase-producing bacteria detected in the digestive tracts of freshwater fishes - Sandipan Talukdar*, Einar Ringø and Koushik Ghosh
<b>Poster presentation</b>		
1	ZO-P1	Observation on Nesting and Parental Care of Jungle Babbler ( <i>Turdoides striata</i> ) from Durgapur, West Bengal, India - Sagar Adhury*, Saikat Adhurya and Utpal Singha Roy
2	ZO-P2	Does a symbiotic relationship exist between the helminth and bacteria in the gut of animals? - Debraj Biswal*
3	ZO-P3	Evaluation of in vitro antibacterial activity of <i>Cissus adnata</i> leaf extracts against four human pathogenic bacteria - Sunanda Burman* and Goutam Chandra
4	ZO-P4	A study on the seasonal fluctuation of some physicochemical parameters of <i>Aedes albopictus</i> breeding habitat water - Arunima Chakraborty*, Soumendranath Chatterjee and Nimai Chandra Saha
5	ZO-P5	Factors Affecting Larvicidal Activity of <i>Bacillus thuringiensis</i> against Filarial vector <i>Culex quinquefasciatus</i> - Sucharita Ghosh*, Arnab Chatterjee, Syed Afrin Azmi, Soumendranath Chatterjee and Nimai Chandra Saha
6	ZO-P6	Induction of necroptosis- a novel strategy against drug resistant HepG2 cells after andrographolide treatment - Sujan Chatterjee*

		Debajyoti Patra, Dipanwita Sengupta, Kaustav Dutta Chowdhury <sup>2</sup> , Nimai Chandra Saha, Anupam Basu and Gobinda Chandra Sadhukhan
7	ZO-P7	Herpetofaunal Diversity in and around the Industrial City of Durgapur, West Bengal - Debayan Gayen* and Saurav Dey
8	ZO-P8	Chironomid communities associated with the rice crops of Rarh alluvial soil of Murshidabad District, West Bengal - Atanu Ghosh* and Abhijit Mazumdar
9	ZO-P9	Affordable Hardware and Approachable Software in ICT for Development - Bishnu Goswami*
10	ZO-P10	Importance of Jungle Cat for Rodent control in agricultural landscape in East Bardhaman district of West Bengal in India - Santanu Mahato*, Erach Barucha, Kranti Yardi, Tanmoy Ghosh and Shuvra Kanti Sinha
11	ZO-P11	Incidence of direct and indirect damage of stored grains by rice WEEVIL ( <i>Sitophilus oryzae</i> Linn.) in laboratory condition - Eureka Mondal* and Kaushik Chakraborty
12	ZO-P12	Instrumental role of calcium carbide generated acetylene in the development of tumorigenic growth in lung tissue of swiss albino mice - Debajyoti Patra*, Sujan Chatterjee, Kaustav Dutta Chowdhury, Nimai Chandra Saha, Anupam Basu and Gobinda Chandra Sadhukhan
13	ZO-P13	The ABO blood group system and <i>Plasmodium falciparum</i> malaria - Kamalika Ray*, Nandita Das, Namrata Roy and Bibekananda Mukherjee
14	ZO-P14	Seasonal fluctuation of <i>Hirschmanniella gracilis</i> (DE MAN, 1818) LUC & GOODEY, 1964 (TYLENCHIDA: NEMATODA) population associated with paddy in Purba Bardhaman District of West Bengal, India - Paromita Roy*, Soumandranath Chatterjee and Viswa Venkat Gantait
15	ZO-P15	Possible role of pupal Respiratory Horn behind eye colour development in Pharate adult of <i>Chrysomya megacephala</i> (Fabricius) - Shuvra Kanti Sinha* and Santanu Mahato
16	ZO-P16	Seasonal fluctuation of water quality parameters and ichthyofaunal diversity of Hasadanga Beel: a floodplain wetland of Nadia- Chandan Sarkar* and Nimai Chandra Saha
17	ZO-P17	Assessment of Flubendiamide toxicity on a non-target dipteran insect, <i>Drosophila melanogaster</i> - Saurabh Sarkar* and Sumedha Roy

**(Prof. Goutam Chandra)**

**Organising Secretary**

**2<sup>nd</sup> RSTC (WR), 2017**

**The University of Burdwan**