

Program Schedule

National Conference *on* Environmental Challenges & Solutions (NC-ECS 2015)

Organized by



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In association with



Time (hrs)	Day 1 (05-11-2015)	
08:00-09:30	Registration	
09:30-10:30	Inaugural Function	
10:30-11:00	High Tea	
11:00-13:00	Plenary Session (NML Auditorium)	
13:00-14:00	Lunch at NML	
Parallel Sessions	Hall 1	Hall 2
	Lecture Hall	Auditorium
14:00-16:00	EI-I: Environmental Issues-I	WM-I: Waste Management-I
Parallel Sessions	Hall 1	Hall 2
	Lecture Hall	Auditorium
16:00-18:00	EI-II: Environmental Issues-II	WM-II: Waste Management-II
19:00-20:00	Cultural Program at NML Auditorium	
20:00-22:00	Dinner at NML	
	Day 2 (06-11-2015)	
Parallel Sessions	Hall 1	Hall 2
	Lecture Hall	Auditorium
09:00-11:00	EMM: Environmental Monitoring & Management	BD: Biodiversity
Parallel Sessions	Hall 1	Hall 2
	Lecture Hall	Auditorium
11:00-13:00	ET: Effluent Treatment	AFE: Alternative Fuel & Energy
13:00-14:00	Lunch at NML	
Parallel Sessions	Hall 1	Hall 2
	Lecture Hall	Auditorium
14:00-16:00	—————	EI-III: Environmental Issues-III
16:00-18:00	Valedictory Function at Lecture Hall	

Plenary Sessions

Plenary Session.	CSIR-NML Auditorium		November 05, 2015	11:00-13:00
Code	Title	Authors	Affiliation	
P. 1.	Promoting Eco-friendly coal-mining-present practices and future challenges	Shekhar Saran	CMPDIL, Ranchi	
P. 2.	Water quality, sanitation, health and social impacts in West Bengal	Jayanta Bhattacharya	Indian Institute of Technology, Kharagpur	
P. 3.	Environmental issues of Jharkhand	S.K. Singh	SEAC Jharkhand, MoEF	
P. 4.	Major environmental challenges –possible solution for sustainable development	A. K. Vaish	M.S. University of Baroda, Vadodara	
P. 5.	E-waste recycling challenges in India	Sandip Chatterjee	Department of Electronics and Information Technology, New Delhi	
P. 6.	Waste Awareness or Waste Education	B. K. Soni	Eco Recycling Company, Mumbai	

Parallel Sessions

EI-I.	Environmental Issues-I	Hall 1 : Lecture Hall	November 05, 2015	14:00-16:00
Code	Title	Authors	Affiliation	
EI-I. 1.	Recent Trends in Analytical Techniques for the Measurement of Substances of Concern in E-Waste Management and RoHS Regulations (<i>Keynote</i>)	V. Balaram	CSIR-National Geophysical Research Institute, Hyderabad	
EI-I. 2.	E-waste: Consequences & Solution (<i>Invited</i>)	Nand Lal Singh, Ishita Mishra	Banaras Hindu University, Varanasi	
EI-I. 3.	Electronic waste disposal a problem for environment and its prospects	Sanjay Prasad	CSIR-National Metallurgical Laboratory, Jamshedpur	
EI-I. 4.	E-waste analysis of printed board circuits by GC-MS and TG-MS and recovery studies of precious metals.	Rahul Saini, R.K. Dutta, V. Aggarwala	Indian Institute of Technology Roorkee	
EI-I. 5.	Measures to control stack and fugitive emissions at the Bhilai steel plant to conform to the new norms from the Chhattisgarh Environmental Conservation Board (CGECB)	Shriprakash Bharti, Amit Karmakar, Sheetal Kumar, Purvang Tayshete	O. P. Jindal University, Raigarh	
EI-I. 6.	Environment Protection: The shift towards Green Marketing in India	Nazish Hena Khan	Central University of Jharkhand, Ranchi	
EI-I. 7.	Change Detection Analysis Using Multi-Temporal Satellite Data: A case from Chhindwara District, M.P.	Chandra Shekhar Dwivedi, S. K. Shukla	Central University of Jharkhand, Ranchi	
EI-I. 8.	Multiple environmental factors: role in epigenetics of type 2 diabetes	Shovit Ranjan, Praveen Kumar Sharma	Central University of Jharkhand, Ranchi	
EI-I. 9.	Burning of crop residues and its impact	Kavita Parmar	Central University of Jharkhand, Ranchi	
EI-I. 10.	Environmental and social impacts of mining activity	R. Dhupper	Amity University, Noida	

WM-I.	Waste Management-I	Hall 2: Auditorium	November 05, 2015	14:00-16:00
Code	Title	Authors	Affiliation	
WM-I. 1.	Prospects of bio-conversion of fly ash and application in agriculture (<i>Keynote</i>)	Deepanjan Majumdar	CSIR-National Environmental Engineering Research Institute, Kolkata	
WM-I. 2.	Waste Management - its Recycling, Re-use options to generate wealth and to ensure sustainable use of resources (<i>Invited</i>)	Prasant Krisnan	Tata Motors, Jamshedpur	
WM-I. 3.	Municipal solid waste management in Jamshedpur	Mir Syeda Yuhannatul Humaira, Manoj Ranjan Sinha, Ranjit Prasad	Kolhan University, Chaibasa	
WM-I. 4.	Utilization of iron ores fines using pelletization technology	Deepak Kumar Gorai, K. D. Mehta, B. K. Singh	National Institute of Technology, Jamshedpur	
WM-I. 5.	Development of sustainable building material from metallurgical slags	S. K. Nath, Sanjay Kumar	CSIR-National Metallurgical Laboratory, Jamshedpur	

WM-I. 6.	Evaluation of geopolymer concrete at different curing periods using ultrasonic pulse velocity	Rachit Ghosh , Anil Kumar, Sunil Kumar Gupta, S. Palit Sagar, Sanjay Kumar	CSIR-National Metallurgical Laboratory, Jamshedpur
WM-I. 7.	Prospect of pellet plant in iron ore belt of Singhbhum, Jharkhand, India	Aswini Majhi , Dr. Ranjit Prasad, Sanjeev Kr. Das	V.B.U. Hazaribag

EI-II.	Environmental Issues-II	Hall 1 : Lecture Hall	November 05, 2015	16:00-18:00
Code	Title	Authors	Affiliation	
EI-II. 1.	Climate change: projection and scenario for Jharkhand (<i>Keynote</i>)	Manoj Kumar	Central University of Jharkhand, Ranchi	
EI-II. 2.	Geospatial approach towards environmental management: a new paradigm (<i>Invited</i>)	Laxmi Kant Sharma	Central University of Jharkhand, Ranchi	
EI-II. 3.	Variability of rainfall and temperature trend and its impact on climate change in the Jharkhand state	Prabeer Kumar Parhi	Central University of Jharkhand, Ranchi	
EI-II. 4.	Sustainable Development & Environment	Tulika Mahanty	National Institute of Fashion Technology, New Delhi	
EI-II. 5.	A study on vertical soil characterization of coal mining areas for planning suitable vegetative reclamation	Sukalyan Chakraborty , Anurag Singh and Amudala Prathaph	Birla Institute of Technology, Mesra, Ranchi	
EI-II. 6.	Impact of human induced land use land cover changes on the regional climate system	Poulomi Chakravarty , Manoj Kumar	Central University of Jharkhand, Ranchi	
EI-II. 7.	Geospatial approach to explore regional biodiversity in changing climate scenario: a case study of Palamau Tiger Reserve, Jharkhand (India)	B. Kumari , L. K. Sharma	Central University of Jharkhand, Ranchi	
EI-II. 8.	Biochemical studies of some plants affected by air pollution in Jamshedpur, India	Geeta, Namrata	Jamshedpur Womens College, Jamshedpur	
EI-II. 9.	Aerosol and its effect on environmental changes: a review	Smriti Priya , Manoj Kumar	Central University of Jharkhand, Ranchi	
EI-II. 10.	Air quality index for Adityapur industrial area	Rajesh Kumar , Neeta Sinha	Jamshedpur Cooperative College, Jamshedpur	
EI-II. 11.	Impact of climatic change on Indian agriculture	Rahela Parween , Sunita Kumari	Mrs K.M.P.M Vocational College Jamshedpur	

WM-II.	Waste Management-II	Hall 2: Auditorium	November 05, 2015	16:00-18:00
Code	Title	Authors	Affiliation	
WM-II. 1.	Management of solid waste (<i>Keynote</i>)	Ranjit Prasad	National Institute of Technology, Jamshedpur	
WM-II. 2.	Steel Industry & Environment – Tata Steel Approach	Shubhanand Mukesh, Anoop Srivastava	Tata Steel	
WM-II. 3.	Solid waste management in Delhi	S. K. Chakraborty	DSIR, New Delhi	
WM-II. 4.	Studies on AOD and GBFS based low strength geopolymer without Portland cement	Deependra Kumar Sinha, Anil Kumar	National Institute of Foundry & Forge Technology, Ranchi	
WM-II. 5.	BHJ/BHQ is an alternative source of ceramic industry	Sanjeev Kumar Das, Dr. Ranjit Prasad	National Institute of Technology, Jamshedpur	
WM-II. 6.	Hydroxyapatite and Magnetic Nanohydroxyapatite for solving environmental challenges	Lubna Sheikh, Suprabha Nayar	CSIR-National Metallurgical Laboratory, Jamshedpur	
WM-II. 7.	Fly ash metals mobility and accumulation of metals in naturally growing vegetation on fly ash dumpsite of Patratu Thermal Power Plant, Jharkhand, India	Shikha Kumari Pandey, Tanushree Bhattacharya	Birla Institute of Technology, Mesra, Ranchi	
WM-II. 8.	Degradation of Thermally Oxidized High Density Polyethylene using Rhizopus oryzae NS5	Shraddha Awasthi, Neha Srivastava, D. Tiwary, Pradeep Kumar Mishra	Banaras Hindu University, Varanasi	
WM-II. 9.	Overall assessment of groundwater quality in selected hostels of BIT, Mesra	Neeta Kumari, Abhishek Kumar, Gopal Pathak	Birla Institute of Technology, Mesra, Ranchi	

EMM.	Environmental Monitoring & Management	Hall 1 : Lecture Hall	November 06, 2015	9:00-11:00
Code	Title	Authors	Affiliation	
EMM. 1.	Assessment of groundwater quality in the industrial development area in greater Hyderabad (<i>Keynote</i>)	Atulya K. Mohanty, S. Sankaran, M. Lingaswamy, VVS Gurunadha Rao	CSIR-National Geophysical Research Institute, Hyderabad	
EMM. 2.	A comparative study of physico-chemical parameters of inlet and effluent of Kharkai STP, Jamshedpur, India	Meenu Verma, Manoj Ranjan Sinha, Ranjit Prasad	Kolhan University, Chaibasa	
EMM. 3.	Continuous water supply through district metered area management	Sudisha Kar, Ankita Shruti, Vinod Kumar Tripathi	Central University of Jharkhand, Ranchi	
EMM. 4.	Groundwater quality assessment using water quality index in and around Ranchi city, Jharkhand, India	Poonam Tirkey, Tanushree Bhattacharya, Sukalyan Chakraborty	Birla Institute of Technology, Mesra, Ranchi	
EMM. 5.	A study on impacts of coal mining on surface and ground water quality of Charhi and Kujua areas of Jharkhand, India	Amudala Prathap, Sukalyan Chakraborty	Birla Institute of Technology, Mesra, Ranchi	
EMM. 6.	Decision on suitability of water harvesting structures site through morphometric analysis	Ankita Shruti, Shiphali Preeti Aind, Sudisha Kar, Amit Kumar Jha, Law Keshri, Vinod Kumar Tripathi	Central University of Jharkhand, Ranchi	
EMM. 7.	Environmental Bio-dependency for	Anju Kumari, Ravinder Singh,	Kolhan University, Chaibasa	

	Heavy Metals- A Case Study at the lower course of river Subarnarekha, East Singhbhum, India	N.G. Goswami	
EMM. 8.	Ground water crisis: Problems and Solutions	C. B. Singh , Suchitra Kumari, Kaberi Mandal, A.K. Srivastava	O. P. Jindal University, Raigarh
EMM. 9.	Drinking water quality assessment of amarkantak region: A case study from tribal dominated area	Reetika Shukla, Virendra Kumar Mishra	Indira Gandhi National Tribal University, Amarkantak
EMM. 10.	Seasonal variation of dissolved nutrient concentration in Yamuna river system	Shikha Sharma , Pawan Kumar Jha and Manju Rawat	Amity University, Noida
EMM. 11.	Suitability of pond water for fish culture: A case study of Darbhanga district using WQI approach	Neeraj Kumar , K. K. Singh, Bihari Singh, Vineeta Parmar	Magadh University

BD.	Biodiversity	Hall 2 : Auditorium	November 06, 2015	9:00-11:00
Code	Title	Authors	Affiliation	
BD. 1.	Bio prospecting of natural resources of Eastern Ghats, Odisha for sustainable development (<i>Keynote</i>)	Nabin K. Dhal , Swati S. Panda	CSIR-Institute of Minerals and Materials Technology Bhubaneswar	
BD. 2.	Ameleorative effect of Glycyrrhiza Glabra (L) Root extract against Arsenic induced toxicity in testicular tissue of Albino Rats	Hare Ram Singh , Santosh Kumar Jha	Birla Institute of Technology, Mesra, Ranchi	
BD. 3.	Study of canopy gaps in sustaining forest ecosystem	Saurabh Kr. Gupta , L. K. Sharma	Central University of Jharkhand, Ranchi	
BD. 4.	Invasion of Prosopis juliflora and ecological economics of Maldharies in Banni Grasslands of Kachchh	Joystu Dutta , Arun Kumar Roy Mahato	Sarguja University, Ambikapur	
BD. 5.	Ever growing urbanization: An imminent threat to sparrow's population	Snehlata Shokeen' Ambrina Sardar , Santanu Ray	Amity University, Noida	
BD. 6.	Comparative diel variation in the abiotic factors at two zones of a lentic ecosystem of Jamshedpur (Jharkhand)	Gajendra K. Singh	Co-operative College, Jamshedpur	
BD. 7.	Vermicomposting of different organic waste: Growth and fecundity response of Eisenia fetida	Vaibhav Srivastava , Rajeev Pratap Singh, Pooja Singh	Banaras Hindu University, Varanasi	
BD. 8.	Study of plant biodiversity in east Singhbhum district of Jharkhand and its medicinal uses	Sunita Kumari , Mala Mandhyan	Mrs K.M.P.M Vocational College Jamshedpur	
BD. 9.	Adaptation to thermal stress in Drosophila	Madhavi Dubey , Hena Firdaus	Central University of Jharkhand, Ranchi	

ET.	Effluent Treatment	Hall 1: Lecture Hall	November 06, 2015	11:00-13:00
Code	Title	Authors	Affiliation	
ET. 1.	Water quality issues of india and holistic management (<i>Keynote</i>)	Santanu Bhattacharjee	CSIR-National Laboratory	Metallurgical
ET. 2.	Industrial waste water treatment techniques with special emphasis on molasses based distillery effluent (<i>Invited</i>)	Sushil Kumar Shukla, P. K. Mishra	Central University of Jharkhand, Ranchi	
ET. 3.	Comparative studies on pretreatment of wastewater containing fats and oils using free and immobilized lipases	Annapurna Jha	Jamshedpur Womens College, Jamshedpur	
ET. 4.	Study on protection of surface water bodies and methodology for development of water resources for part of Visakhapatnam urban area-a geo-spatial technology approach	Kiran Jalem	Central University of Jharkhand, Ranchi	
ET. 5.	A study on Arsenic contamination of groundwater in Gangetic plain of north east Jharkhand	Md. Osaid Alam, Wasim Akram Shaikh, Sukalyan Chakraborty, Tanushree Bhattacharya	Birla Institute of Technology, Mesra, Ranchi	
ET. 6.	Decolorization and Biodegradation of Acid Red 151 by suspended and immobilized cells of isolated bacterial strain Staphylococcus arlettae BHUSAX17	Lata Kumari, Dhanesh Tiwary, Pradeep Kumar Mishra	IIT-Banaras Hindu University, Varanasi	
ET. 7.	Modified electro-fenton process for the removal of phenol from contaminated water	Sayantee Roy	Central University of Jharkhand, Ranchi	
ET. 8.	Phyco-remediation of arsenic from water/ wastewater by Chlorella sorokiniana	Wasim Akram Shaikh, Md. Osaid Alam, Sukalyan Chakraborty, Tanushree Bhattacharya	Birla Institute of Technology, Mesra, Ranchi	
ET. 9.	Cost effective removal of heavy metals from industrial wastewater	Ashutosh Tripathi, Manju Rawat Ranjan	Amity University, Noida	
ET. 10.	Elimination of amoxicillin from pharmaceutical wastewater by electro – chlorination process using graphite – stainless steel electrodes	A. Oulebsir, T. Chaabane, V. Sivasankar, A. Darchen, S. Zaidi, R. Maachi	University of Sciences and Technology Houari Boumediene, Algiers, Algeria	
ET. 11.	Electro-generated aluminium compound in eliminating oxytetracycline from pharmaceutical wastewater: performance of coupled electro-coagulation and electro-flotation process in neutral medium	S. Zaidi, T. Chaabane, V. Sivasankar, A. Darchen, A. Oulebsir, R. Maachi	University of Sciences and Technology Houari Boumediene, Algiers, Algeria	
ET. 12.	Solar Photo-catalysis: An energy intensive and promising technology for wastewater treatment	Atin Kumar Pathak, V. V.Tyagi, Sanjeev Anand, Richa Kothari	Shri Mata Vaishno Devi University, Kakryal, Katra	
ET. 13.	Application of constructed wetland and disinfection technology for the treatment of wastewater in India	Virendra Kumar Mishra, Reetika Shukla, Phillipp Otter, Alaxender Goldmaier, Nadeem Khalil	Indira Gandhi National Tribal University, Amarkantak	

AFE.	Alternative Fuel & Energy	Hall 2: Auditorium	November 06, 2015	11:00-13:00
Code	Title	Authors	Affiliation	
AFE. 1.	Chemicals and Fuels from Biomass (<i>Keynote</i>)	S. N. Upadhyay	IIT-Banaras Varanasi	Hindu University, Varanasi
AFE. 2.	Biological Hydrogen Production: Development of an Integrated Green Technology (<i>Keynote</i>)	P. K. Mishra , Neha Srivastava	IIT-Banaras Varanasi	Hindu University, Varanasi
AFE. 3.	Dark Fermentative Hydrogen Production	Neha Srivastava , P. K. Mishra	IIT-Banaras Varanasi	Hindu University, Varanasi
AFE. 4.	Evaluation of Algal Biomass for Simultaneous/Successive Production of Biodiesel and Biobutanol	Deepika Kushwaha , Gurudatta Singh, P. K. Mishra	IIT-Banaras Varanasi	Hindu University, Varanasi
AFE. 5.	Prospects and Challenges of Biodiesel Industry in India	Dipesh Kumar , Bhaskar Singh	Central University of Jharkhand, Ranchi	
AFE. 6.	Study of transport properties of Energy harvesting material - PZT	Sweta Sharma , Md. Soaib Khan, Rajiv Ranjan	Jamshedpur Co-operative College, Jamshedpur	
AFE. 7.	Photocatalytic degradation of P-cresol by using synthesis TiO ₂ - activated carbon based nanocomposites	Tripti Singh , Neha Srivastava, P. K. Mishra, Nandlal Singh, A. K. Bhatiya	IIT-Banaras Varanasi	Hindu University, Varanasi
AFE. 8.	Fuel Cells: Alternative Source of Energy for 21st Century	Md. Nazrul Islam	Jamshedpur	Workers' College, Jamshedpur

EI-III.	Environmental Issues-III	Hall 2 : Auditorium	November 06, 2015	14:00-16:00
Code	Title	Authors	Affiliation	
EI-III. 1.	Municipal solid waste management (<i>Keynote</i>)	Ashish Mathur	JUSCO	
EI-III. 2.	Comparative study on heavy metal level in spinach (<i>Spinacia Oleracea</i>) from different production site around Ranchi by inductive coupled plasma-optical emission spectrometry	Santosh Kumar Jha , Hare Ram Singh	Birla Institute of Technology, Mesra, Ranchi	
EI-III. 3.	Diminished methanotrophs count across India in agricultural soils	Deen Dayal Giri , P. K. Mishra	IIT-Banaras Varanasi	Hindu University, Varanasi
EI-III. 4.	Agricultural utilization of SLASH (Sewage sludge and Fly ash) on biochemical and yield response of <i>Beta vulgaris</i> .	Bhavisha Sharma , Pooja Singh, Rajeev Pratap Singh	IIT-Banaras Varanasi	Hindu University, Varanasi
EI-III. 5.	Mitigation of Nickel toxicity in <i>Raphanus sativus</i> plant by phosphate fertilizer: A sustainable technique	Anita Singh , Sheo Mohan Prasad	University of Allahabad	
EI-III. 6.	Electromagnetic radiations from cell phone towers altering the chlorophyll content in wildy grown plant- <i>Tridax</i>	Geeta, Puja Kumari Singh	Jamshedpur Jamshedpur	Womens College, Jamshedpur

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EI-III. 7.	Spectrophotometric determination of trace elements in some fruits & vegetables	Tapas Kumar Bhanj , Rajesh Kumar	Jamshedpur Co-operative College, Jamshedpur
EI-III. 8.	Biomedical Wastes Use for Corrosion Protection of Building Materials	Rajesh Kumar Singh	Jagdam College, J P University, Chapra
EI-III. 9.	Eco-friendly waste management through replacement of plastic bags	Mita Tarafder	CSIR-National Metallurgical Laboratory, Jamshedpur
EI-III. 10.	Socio-economic aspects of Swachh Bharat mission- prospects and challenges	Gurinder Kaur , Rashmi	Jain Institute of Management and Entrepreneurship, Jamshedpur
EI-III. 11.	Homegardens of upper Assam, a sustainable food production system	P. Saikia	Central University of Jharkhand, Ranchi
EI-III. 12.	Utilization of weed biomass as an organic source in Mungbean	Vineeta Parmar	Magadh University