

**International Conference on
Emerging Trends in Biotechnology for Waste Conversion (ETBWC-2017)
XIV Convention of the Biotech Research Society, India
October 8-10, 2017
CSIR-National Environmental Engineering Research Institute, Nagpur, India**

PROGRAM

October 8, 2017 [SUNDAY]

14:00-19:00	Registration
14:00-16:00	BRSI Board and Management Council meeting (by invitation only)
16:05-16:50	BRSI General Body meeting (for BRSI members only)
17:00-18:30	Opening session and BRSI award function
18.35-19.15	Keynote lecture- Prof Tej P Singh, AIIMS, New Delhi- <i>Structural basis of antibacterial action of innate immune proteins and their applications as PROTEIN-ANTIBIOTICS</i>
19.15-20.15	Cultural program
20:15-21:15	Dinner

October 9, 2017 [MONDAY]

08:00-17:00	Registration			
09:00-10:00	Presentations by awards winners: Chair- Ashok Pandey, CSIR-Indian Institute for Toxicology Research, Lucknow			
10:00-11:20	Plenary session I: Chairs-DinbandhuSahoo, Institute of Bioresources and Sustainable Development, Imphal&SudhirK Sopory, ICGEB, New Delhi			
10:00-10:20	Plenary 1- AlokDhawan, CSIR-Indian Institute of Toxicology Research, Lucknow- <i>Biotechnological solutions for waste management: Challenges and opportunities</i>			
10:20-10:40	Plenary 2- Duu-Jong Lee, National Taiwan University, Taipei, Taiwan- <i>Sludge treatment: Current research trends</i>			
10:40-11:00	Plenary 3-Jo-Shu Chang, National Cheng Kung University, Tainan, Taiwan- <i>Microalgae-based wastewater treatment for the circular economy</i>			
11:00-11:20	Plenary 4- Kanchugarakoppal S. Rangappa – University of Mysore, Mysore- <i>Exploring novel inhibitors targeting heparanase, JAK-STAT pathway, and TNF in hepatocellular and mammary carcinoma</i>			
11:20-11:50	Refreshments and Poster Session - I			
11:50-13:30	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Session IA</td> <td style="width: 33%;">Session IB</td> <td style="width: 33%;">Session IC</td> </tr> </table>	Session IA	Session IB	Session IC
Session IA	Session IB	Session IC		

	Topic- Waste to wealth - Resource recovery and recycling	Topic- Industrial bioprocesses and products development	Topic- Biomass to fuels and chemicals
	Chairs:Samir Kumar Khanal, University of Hawaii, Honolulu, USA & Zengqiang Zhang, Northwest A&F University, Yangling, China	Chairs:DattaMadamwar, Sardar Patel University, Vallabh Vidyanagar&Mark R Wilkins, University of Nebraska–Lincoln, USA	Chairs:Claude-Gilles Dussap, Universite Clermont Auvergne, Clermont Ferrand, France& Siddha N Upadhyay, Banaras Hindu University, Varanasi
11:50-12:10	José A. Teixeira, University of Minho, Braga, Portugal - <i>Ohmic heating as innovative technology for a more efficient wastes recovery</i>	Christian Larroche, Universite Clermont Auvergne, Clermont Ferrand, France - <i>Immersed membrane bioreactors: present status and new tools for their design</i>	Rajeev K Sukumaran, CSIR-National Institute for Interdisciplinary Science and Technology, Trivandrum - <i>Enzymes for biofuels: β-Glucosidases as blend-in enzymes for biomass hydrolyzing cellulases cocktails</i>
12:10-12:30	Ram S. Singh, Banaras Hindu University, Varanasi - <i>Major challenges and current research efforts in the bioremediation of liquid and gaseous waste</i>	K MadhavanNampoothiri, CSIR- National Institute for Interdisciplinary Science and Technology, Trivandrum - <i>Microbial degradation of high impact polystyrene (HIPS) e-plastics</i>	MukundAdsul, DBT Bioenergy Centre, IOCL, Faridabad - <i>Designing cellulolytic enzyme cocktail for efficient and economic conversion of lignocellulosic biomass to biofuels</i>
12:30-12:50	Deepak Pant, Central University of Himachal Pradesh, Dharamshala - <i>Bioprocess of using weed biomass for surfactant removal from wastewater</i>	Vivek K. Morya, DST-Centre for Policy Research, BBA Central University, Lucknow - <i>Optimization and evaluation of the highly productive protein refolding process, using ionic liquid</i>	Pramod W. Ramteke, Sam Higginbottom Institute of Agriculture, Technology and Sciences, Allahabad - <i>Nanomaterials for biofuel production using lignocellulosic waste</i>
12:50-13:10	Rama Kant Dubey, Banaras Hindu University, Varanasi - <i>Agro-waste management practices for improving soil functions, crop productivity and agricultural sustainability under diverse agroecosystems</i>	LathaRangan, Indian Institute of Technology, Guwahati - <i>Mining of natural compounds from seeds of Pongamiapinnata, a versatile oleaginous legume tree</i>	Bijender Kumar Bajaj, University of Jammu, Jammu - <i>Ionic liquids for valorization of lignocellulosic wastes for biofuel-ethanol production under consolidated bioprocessing</i>
13:10-13:30	Zhi Li, National University of Singapore, Singapore - <i>Bioproduction of biodiesel from waste grease</i>	Sunil Kumar Khare, Indian Institute of Technology, New Delhi - <i>Interaction of nanoparticles with microbial cells: evidences of nanotoxicity</i>	Xiang Lu, Nanjing Tech University, Nanjing, China – <i>The model of fiber dispersion for biomass fiber field polyethylene composites</i>
13:30-14.30	Lunch		
14:00-15:30	Poster session-I (cont.....)		
15:30-16:50	Session IIA	Session IIB	Session IIC
	Topic – Bioenergy and Biorefineries	Topic- Industrial bioprocesses and products	Topic- Solid waste management

		development	
	Chairs: Thallada Bhaskar, CSIR- Indian Institute of Petroleum, Dehradun & Duu-Jong Lee, National Taiwan University, Taipei, Taiwan	Chairs: Vikash K Dubey, Indian Institute of Technology, Guwahati & Jo-Shu Chang, National Cheng Kung University, Tainan, Taiwan	Chairs: Vinod K Garg, Central University of Punjab, Bathinda & José A. Teixeira, University of Minho, Braga, Portugal
15:30-15:50	Rajeshwar Dayal Tyagi, University of Quebec, INRS-ETE, Quebec, Canada -Sustainable biodiesel production- An approach	Indu Shekhar Thakur, Jawaharlal Nehru University, New Delhi -Molecular characterization of <i>Serratia sp. ISTD04</i> for sequestration of carbon dioxide and production of exopolysaccharide	Zengqiang Zhang, Northwest A&F University Yangling, China -Clean composting – Opportunities, Approaches and Challenges
15:50-16:10	Ganti S. Murthy, Oregon State University, USA -A systems perspective on lignocellulosic biorefineries using high yielding tropical grasses	Sudesh Kumar Yadav, Center of Innovative and Applied Bioprocessing, Mohali -Biosynthetic approaches in transformation of biomass into value-added products	Zainul Akmar Zakaria, Universiti Teknologi Malaysia, Kuala Lumpur -Sustainable techniques for pineapple waste management in Johor, Malaysia
16:10-16:30	Claude-Gilles Dussap, Universite Clermont Auvergne, France -Influence of reduced gravity for higher plant growth for space life support systems	Mark R Wilkins, University of Nebraska–Lincoln, USA -Production of aryl alcohol oxidase by an <i>Aspergillus nidulans</i> mutant in a trickle bed reactor	Jishuang Chen, Nanjing Tech University, Nanjing, China -Industrial utilization of biomass for new materials and the development of straw plastic composites (SPC)
16:30-16:50	Ajay Kumar, Oklahoma State University, USA - Small-scale co-gasification of municipal solid waste (MSW) and biomass for power generation	Parmjit S Panesar, SL Institute of Technology and Engineering, Longowal , Production of L (+) lactic acid from waste potato starch using fungal culture	Mukesh Kumar Awasthi, Northwest A&F University, Yangling, China -Co-composting of sewage sludge and wheat straw: Microbial diversity and potential mitigation of ammonia and greenhouse gases emission
16:50-17:20	Refreshments		
17:20-19:00	Session IIIA	Session IIIB	Session IIIC
	Topic – Environmental Technologies: value-chain from wastes	Topic- Industrial bioprocesses and products development	Topic- Organization for Women in Science in the Developing World
	Chairs: Sunil K Khare, Indian Institute of Technology, New Delhi & Christian Larroche, Universite Clermont Auvergne, France	Chairs: Reeta Rani Singhanian, DBT Bioenergy Centre, IOCL, Faridabad & Jonathan W. C. Wong, Hong Kong Baptist University, Hong Kong	Chairs: Kaiser Jameel, Bhagwan Mahavir Medical Research Center, Hyderabad & Akka Jyothy, Osmania University, Hyderabad
17:20-17:40	A. Gangagni Rao, CSIR-Indian Institute of Chemical Technology, Hyderabad -Sustainable waste management Biotechnologies: A decentralized	Nishi Morya, Adhita Biosciences Private Ltd Lucknow -Development of cosmeceutical based cosmetic products from Indian herbs	Vijayakhader, Acharya NG Ranga Agricultural University, Hyderabad -Economic empowerment of women through

	<i>and remunerative approach for waste treatment</i>		<i>application of Science & Technology for food, nutrition, health & livelihood security</i>
17:40-18:00	S Venkata Mohan, CSIR-Indian Institute of Chemical Technology, Hyderabad - <i>Acidogenic waste-biohydrogen platform: Pilot-scale experience</i>	Wan Azlina Ahmad, University Technology, Malaysia - <i>Optimization of growth condition and chromium reduction by thermophilic strain Geobacilluscaldoxylosilyticus UTM 6</i>	Ramanibai Ravichandran, University of Madras, Chennai - <i>Women self-help groups and their role in eco restoration and conservation of Pulicat Lagoon</i>
18:00-18:20	Rebecca Thombre, Modern College, Pune - <i>Microbial fuel cell (MFC) technology in altered gravity: Implications in turning waste into electricity on space missions</i>	Akshaya Gupte, Natubhai V Patel College of Pure and Applied Sciences, Vallabh Vidyanagar - <i>Laccases: Advancing Sustainability in Chemical Industry</i>	Sudha Chauhan, ICMR, New Delhi - <i>Waste management in India: Role of biotechnology and women</i>
18:20-18:40	M Sudhakara Reddy, Thaper University, Patiala , <i>Glutathione synthesizing genes in ectomycorrhizal fungi and their role in metal detoxification</i>	C. Ganesh Kumar, CSIR-Indian Institute of Chemical Technology, Hyderabad - <i>Microbial-derived silver nanoparticles and their application as drug delivery agents</i>	Arti S. Shanware, Nagpur University, Nagpur - <i>Endeavoring agri-waste management for sustained agriculture ecosystem</i>
18:40-19:00	Sudhir Pratap Singh, Center of Innovative and Applied Bioprocessing, Mohali - <i>An integrated bio-process for the production of functional biomolecules utilising dairy and sugarcane industry by-products</i>	Kazushige Yokota, Shimane University, Shimane, Japan - <i>Analysis of polyphenolic antioxidants from regional bioresources and their health benefits for the uses as food additives and nutraceuticals</i>	Sushma Tamta, Kumaun University, Nainital - <i>Desmodesmus sp. may be a potential source of biodiesel production</i>
19:00-20:00	Cultural program		
20:00-21:00	Dinner		
October 10, 2017 [TUESDAY]			
09:00-10:00	Plenary session II: Chairs- Tej P Singh, All India Institute of Medical Sciences, New Delhi & Rajeshwar Dayal Tyagi, University of Quebec, INRS-ETE, Quebec, Canada		
09:00-09:20	Plenary 5- Jonathan W. C. Wong, Hong Kong Baptist University, Hong Kong - <i>Biogenic Flocculant from Acidithiobacillusferoxidans for sludge dewatering and sewage treatment</i>		
09:20-09:40	Plenary 6- CN Ramchand, Saksin Life Sciences Pvt. Ltd. Chennai, San Francisco and MagGenome Technologies Pvt. Ltd., Cochin - <i>Waste disposal in pharmaceutical and biopharmaceuticals industries</i>		
09:40-10:00	Plenary 7 - Dinakar M. Salunke, International Centre for Genetic Engineering & Biotechnology, New Delhi - <i>Structural proteomics of plant seeds</i>		
10:00-10:30	Refreshments and Poster session – II		
10:30-12:10	Session IVA	Session IVB	Session IVC

	Topic – Industrial effluent treatment	Topic – Industrial bioprocesses and products development	Topic- Environmental bioengineering and ecology
	Chairs: Shailesh R. Dave, Gujarat University, Ahmedabad&BaskarGurunathan, St.Joseph's College of EngineeringChennai	Chairs: P Binod, CSIR-National Institute for Interdisciplinary Science and Technology, Trivandrum &TulsiSatyanarayana, Netaji Subhas Institute of Technology, New Delhi	Chairs: M Sudhakara Reddy, Thapar Institute of Engineering & Technology University, Patiala &R Praveen Kumar, Arunai Engineering College, Thiruvannamalai
10:30-10:50	Raj Boopathy, Nicholls University, Thibodaux, USA-<i>Presence of sulfonamide and carbapenem resistance genes in a wastewater treatment plant</i>	Vijayanand S. Moholkar, Indian Institute of Technology, Guwahati -<i>Physical insight into ultrasound-assisted biodesulfurization using free and immobilized cells of RhodococcusrhodochrousMTCC 3552</i>	Cheng-Di Dong, National Kaohsiung Marine University, Kaohsiung, Taiwan-<i>Biochar from woody biomass supported magnetite nanoparticles for remediation of PAHs-contaminated marine sediments</i>
10:50-11:10	Yonghong Wu, Institute of Soil Science Chinese Academy of Sciences, Nanjing, China-<i>Synergistic role of titanium dioxide addition, extracellular polymeric substance and denitrifiers on enhanced nitrate removal from wastewater</i>	VikasPruthi, Indian Institute of Technology, Roorkee-<i>Boosting neutral lipid accumulation in oleaginous microbes utilizing waste and low cost medium as a feedstock for biodiesel production</i>	Sunita J. Varjani, Gujarat Pollution Control Board, Gandhinagar - <i>Biodegradation of petroleum hydrocarbon pollutants</i>
11:10-11:30	P. Mullai, Annamalai University, Annamalai Nagar- <i>Substrate removal kinetics of pharmaceutical wastewater using anaerobic hybrid multiphase reactor</i>	Sangeeta Negi, Motilal Nehru National Institute of Technology, Allahabad-<i>Enhanced production of hydroxylase through media engineering from grease waste</i>	NatesanManickam, CSIR-Indian Institute of Toxicology Research, Lucknow- <i>Feasible biotechnological solutions for bioremediation of persistent chemical wastes</i>
11:30-11:50	A Murugan, Periyar University, Salem- <i>Ellagic acid production from ellagi tannin of mango pulp processing industrial waste</i>	Carol SK Lin, City University, Hong Kong- <i>Transforming food and beverage wastes to high value-added products</i>	Srikanth Sandipam, Indian Oil Corporation Ltd, Faridabad- <i>Stack mode MFC operation for refinery wastewater treatment</i>
12:00-13:00	Lunch		
13:00-14:15	Poster session – II (cont.....)		
14:15-15:45	Session VA	Session VB	Session VC
	Topic – Anaerobic digestion	Topic – Industrial bioprocesses and products development	Topic- Plant Physiology and Biotechnology
	Chairs: Shekhar Mande, National Centre for Cell Science, Pune&Hemant J. Purohit, CSIR-National Environmental Engineering Research Institute, Nagpur	Chairs: V Arul, Pondicherry University, Pondicherry &Ram Sarup Singh, Punjabi University, Patiala	Chairs: Cheng-Di Dong, National Kaohsiung Marine University, Kaohsiung, Taiwan&RS Jayasomu, CSIR-NISCAIR, New Delhi
14:15-14:35	Hee-Deung Park, Architectural Engineering	Kisan M. Kodam, Savitribai Phule Pune	Sumit Gandhi, CSIR-Indian Institute of

	Korea University, Seoul, South Korea - <i>Direct interspecies electron transfer via conductive materials makes a step forward in anaerobic digestion</i>	University, Pune - <i>Assessment of hazardous impact of ionic liquids on diverse biological systems and their biodegradation</i>	Integrative Medicine, Jammu - <i>Analysis of plant cytochrome P450s: key players in biosynthesis of secondary metabolites and degradation of xenobiotics</i>
14:35-14:55	Samir Kumar Khanal, University of Hawaii, USA - <i>Anaerobic digestion process control via oxidation-reduction potential (ORP)-based micro-aeration</i>	Manoj K. Dhar, University of Jammu, Jammu - <i>Genetic modification in xylan biosynthesis for efficient production of biofuels</i>	SnehalLokhandwala' Shroff S R Rotary Institute of Chemical Technology, Bharuch - <i>Heavy metal Tolerance: A phytostabilization approach by Funneliformisgeosporum MBAL to alleviate heavy metal stress in soil</i>
14:55-15:15	Lena Breitenmoser, FHNW, Switzerland - <i>Methane potential from Indian urban biowaste: Insight from six communities in Maharashtra state</i>	V Vivekanand, Centre for Energy and Environment, Malaviya National Institute of Technology, Jaipur - <i>Improved bioconversion of straw to biogas: delignification effects of fungal pretreatment</i>	K. K. Krishnani, ICAR-National Institute of Abiotic Stress Management, Pune - <i>Agrowaste derived products for edaphic stresses synergizing with integrated farming</i>
15:20-17:00	Plenary session III: Industry-Young Researchers Interaction Session: Education, Entrepreneurship and Livelihood vis-à-vis Business of Biotechnology and Sustainability Chair & Moderator- Dr. Raghvendra Gaikawaiwari, CMD, HTBS, Pune Presentation by Dr Onkar Tiwari, Department of Biotechnology (Govt of India), New Delhi Panelist- Dr Vivek Agrawal, CEO, CDC India, Jaipur Dr CN Ramchand, CMD, Saksin Life Sciences Pvt. Ltd. Chennai, San Francisco and MagGenome Technologies Pvt. Ltd., Cochin Er Sunil Kumar Sharma, Feedback Infra		
17:00-17:45	Closing session (Poster awards, Announcement for venue of XV BRSI Convention, Thanks Giving)		
17:45-18:15	Refreshments		