

Time	Room A-Stein Auditorium	Room B-Silver 1	Room C-Silver 2
Capacity	450	50	50
<b>8<sup>th</sup> March 2017</b>			
08:15	<b>Registration</b>		
	<b>Plenary Session</b>		
09:00 – 09:05	09:00 <b>Introduction and Welcome</b> to Delegates (Dr Anjan Ray, Chairman, 4 <sup>th</sup> 3RINC's conference and Director, CSIR-IIP)		
	<b>Chair(s): Prof. Ashok Pandey, CIAB, Mohali Prof. Dr. Karl Vrancken, VITO Belgium</b>		
09:05 - 09:30	<b>Plenary K-1</b> <b>From Waste to Products-Innovating a carbon smart Future</b> , Dr. Jennifer Holmgren, (Chief Executive Officer (CEO), Lanza Tech, USA)		
09:30 - 09:55	<b>Plenary K2</b> <b>Waste Management in Thailand: Perspectives and Challenges</b> , Prof. Somrat Kerdswan (King Mongkut's University of Technology North Bangkok, Thailand)		
09:55	<b>Inauguration Ceremony Arrival of Chief Guest and Guest of Honour</b>		
10:00-10:05	Address by Guest of Honour, Dr Girish Sahni (Secretary DSIR and Director General, CSIR)		
10:05-10:10	Remarks by H.E. Mr. Shigemoto Kajihara, Vice Minister for Global Environmental Affairs, Ministry of the Environment, Japan		
10:10 – 10:15	Remarks by Prof. Jinwon Park, President of Korean Society of Waste Management, Korea		
10:15 – 10:35	Address by Chief Guest, Dr Harsh Vardhan, Honourable Union Minister for Science & Technology and Earth Sciences		
10:35-10:40	Concluding Remarks & Vote of Thanks by Prof. S K Ghosh, President ISWMAW and Professor (co-organiser), Jadavpur University (also as IAB member)		
10:40	<b>Tea</b>		
11:00	<b>Special session-1 Mega City &amp; Material Cycles by 3RINC's Organizer</b> <b>Chair(s): Dr. Amitava Das (CSIR-Central Salt &amp; Marine Chemicals Research Institute, CSMCRI, India)</b> <b>Mr Anil Dhussa, Former Advisor, Ministry of New and Renewable Energy</b>	<b>B-1 Solid Refuse Fuel (SRF) use and Waste to Energy</b> <b>Chair(s): Dr. Zsuzsanna CZÉGÉNY (Research Centre for Natural Sciences Hungarian Academy of Sciences, Hungary)</b> <b>Prof. Kamal K Pant, Indian Institute of Delhi, New Delhi</b>	<b>C-1 Metal resource recovery</b> <b>Chair(s): Prof. Yong-Chil Seo (Yonsei University, Korea)</b> <b>Dr Subodh Kumar, Indian Oil Corporation, Faridabad</b>
11:00-11:30	<b>(SP1-1) <u>Keynote</u>: Technology needs for the implementation of 3r and circular economy</b> , Dr. Karl Vrancken, VITO, Belgium	11:00 - 11:20 <b>(B-1-1) Performance Tests of Pilot-Scale Gasification Process for Fluff Type Solid Refuse Fuel</b> , Mr. SeWon Park, Yonsei University, South Korea	<b>(C-1-1) Development of Manganese Recovery Process from Waste Dry Cell Batteries</b> , Dr. Toyoshi Yamaguchi, JFE Steel Corporation, Japan
11:30–11:50	<b>(SP1-2) Application of research and development in supply chain management of biomass (agri-waste) industry, especially in the context of developing countries like India.</b> , Lt.Col Monish Ahuja, PRESPL	11:20 - 11:40 <b>(B-1-2) Balancing the energy demand by a resource circulation project in Daejeon metropolitan city, Korea</b> , Mr. Krishna Lal Chhetri, Chungnam National University, South Korea	<b>(C-1-2) Removal of Fe, Zn, Cu, Pb from mine waste water by Mg-Al Layered Double Hydroxide and sludge volume reduction</b> , Mr. Mir Tamzid Rahman, Tohoku University, Japan

11:50–12:10	(SP1-3) IH2-A technology solution for deriving value from municipal solid waste, Dr. Laxmi Narshimahan, Shell India Marketing Pvt. Ltd	11:40 - 12:00	(B-1-3) Legislation and policy drivers for energy recovery from waste of United Kingdom, Ms. Rieko Kubota, National Institute for Environmental Studies, Japan	(C-1-3) Metal Recovery using Green Chemical Engineering Approach, Mr. Prashant Jadhao, Indian Institute of Technology Delhi, India
12:10–12:30	(SP1-4) E-waste bio treatment opportunities & challenges, Prof. Shailesh Dave, Gujarat University	12:00 - 12:20	(B-1-5) Proposal for applying RDF production system in Asian developing countries based on reviewing the practices in Japan and EU, Dr. Kosuke Kawai, National Institute for Environmental Studies, Japan	(C-1-4) Estimation of precious metals content and its collection potential from end-of-life vehicles, Mr. Xu Guochang, Kyoto University, Japan
12:30–12:50	(SP1-5) Scaling and descaling of AD based waste to energy technology, Dr. Ashhok Kapoor, Organic Recycling Systems Pvt. Ltd.	12:20 - 12:40	(B-1-6) Study of Power Generation Increasing Effects from Waste-to-Energy High Efficiency from Municipal Solid Waste Facilities, Dr. Youngsam Yoon, National Institute of Environmental Research on Ministry of Environment, South Korea	(C-1-5) Development of commercial valorization processes for valuable metal recovery from various e-(industry) waste, Dr. Basudev Swain, Institute for Advanced Engineering IAE, South Korea
12:50–13:10	(C-2-5) Citizen Monitoring of Urban Waste Collection in Karnataka- A case of Bengaluru, Ms. Bhargavi Nagendra, Public Affairs Centre, India	12:40 - 13:00	(B-1-7) Installation and operation of polyurethane SRF manufacturing facility from refrigerator waste A case study, Mr. Jihwan Park, Korea Eelectronics Recycling Cooperative, South Korea	(C-1-6) Electrodeposition of Rare-Earth Alloy from Neodymium Magnet Scrap using Molten Chloride, Prof. Yuki Kamimoto, Nagoya University, Japan
13:20	<b>Lunch</b>			
14:15	<b>Ministerial session</b> <b>Shri Suresh Prabhu, Honourable Railway Minister, Govt. of India</b> <b>Mr H.N. Ananth Kumar, Honourable Union Minister for Chemicals and Fertilizers</b> <b>Mr. Piyush, Goyal, Minister of State with Independent Charge for Power, Coal, New and Renewable Energy and Mines</b> <b>Mr Anil Madhav Dave, Minister of State with Independent Charge of Environment, Forests and Climate Change</b> <i>Introduction by Dr YB Ramakrishna, Chairman - Working Group on Bio Fuels, Ministry of Petroleum &amp; Natural Gas</i>			
15:30	<b>Poster-1</b>			
16:30	<b>A-2:</b> <b>3R case study</b> <b>Chair(s): Prof. Heinz Georg Baum (University of Applied Sciences Fulda, Germany)</b> <b>Prof. Jae-Hyuk Hyun (Chungnam University, Korea)</b>	<b>B-2</b> <b>Disaster waste and Hazardous waste</b> <b>Chair(s): Prof. P. Agamuthu (University of Malaya, Malaysia)</b> <b>Dr. Sunil Kumar, CSIR-National Environmental &amp; Engineering Research Institute, Nagpur</b>	<b>C-2</b> <b>Industrial waste and Recycling technology</b> <b>Chair(s): Prof. Jai-Young Lee (University of Seoul, Korea)</b>	
16:30-16:50	(A-2-1) Methane emissions from large scale composting plant in Bangkok, Thailand, Dr. Komsilp Wangyao, King Mongkuts University of Technology Thonburi, Thailand	(B-2-1) Establishment of unit generation rates of building debris in Kathmandu Valley, Nepal, after the Gorkha Earthquake, Mr. Raju Poudel, Kyoto University, Japan	(C-2-1) Co-processing of marble slurry in Indian cement plant, Mr. Rahul Baidya, Jadavpur University, India	
16:50-17:10	(A-2-2) A Study on the Emissions and Reduction of Greenhouse Gases by Management of MSW in Daejeon Metropolitan City in Korea, Mr. Yun Chang, Chungnam National University, South Korea	(B-2-2) Mercury Inventory and Flow Analysis of Waste Products and Materials in Korea, Ms. Hyunhee Kim, Chungnam National University, South Korea	(C-2-2) Recycling of silicon in crystalline solar cells by chemical etching Prof. Yoshiei Kato, Okayama University, Japan	
17:10-17:30	(A-2-3) A Concerted Initiative for Planned Management of Municipal Solid Waste in Target Provinces in Sri Lanka, Prof. Benedict Basnayake, Faculty of Agriculture University of Peradeniya, Sri Lanka	(B-2-3) Generation potential of Hazardous and/or Harmful Articles at Disasters, Dr. Tetsuji Okuda, Ryukoku university, Japan	(C-2-3) Analysis of Municipal Solid Waste conversion techniques for efficient resource recovery in India A Review Ms. Anaya Ghosh, National Institute of Technology Durgapur, India	
17:30-17:50	(A-2-4) Co-benefits of Decentralised Municipal Solid Waste Management A Case Study of Pune, Ms. Malavika Gopinath, IIT Bombay, India	(B-2-4) An ecofriendly approach for pesticide remediation from wastewater using ceramic UF membrane integrated MBR process Dr. Sourja Ghosh, CSIR- central glass and ceramic research institute Kolkata, India	(C-2-4) Application of Waste activated sludge of tannery industry for removal of Glyphosate herbicide from aqueous solution Dr. Lata Ramrakhiani, CSIR-Central Glass And Ceramic Research Institute, India	
17:50-18:10	(SP-1-6) Energy Security Through Food Waste-Creating a Bioenergy Economy, Dr. Nuriel Pezarkar, Noble Exchange Environment Solutions			
18:15	<b>Walking Tour to Lodi Garden</b>			

19:30	Networking Dinner		
<b>9<sup>th</sup> March 2017</b>			
09:00	Registration		
9:15	<b>Special session – 2</b> <b>Resource Recovery from Industrial By-products and Waste for Climate Change</b> <b>Chair(s): Woo Zin Choi (University of Suwon, Korea) &amp; Dr. Ji Whan Ahn (KIGAM, Korea)</b>	<b>B-3</b> <b>Thermal decomposition and treatment</b> <b>Chair(s): Prof. Masaki Takaoka (Kyoto University, Japan)</b>	<b>C-3</b> <b>Biomass utilization</b> <b>Chair(s): Dr. Mami Irie (Tokyo University of Agriculture, Japan)</b>
9:15-9:35	(SP2-1) Removal of toxic heavy metals(arsenic) from waste water by carbonation process, Thenepalli Thriveni, Hanil Cement, Korea	(B-3-1) Hydrogen production over carbon catalysts using thermocatalytic decomposition of methane Regeneration Study Dr. Srilatha K, Jawaharlal Nehru Technological University, India	(C-3-1) Methane enhancement of biogas using carbonation method, Mr. Avneesh Kumar Gehlaut, MotiLal Nehru National Institute of Technology, India
9:35-9:55	(SP2-2) Rare earths recovery from waste electronic and electrical equipment, WEEE) for sustainable green tech industries applications: e-waste management, Jyothi Rajesh Kumar, Korea Institute of Geoscience and Mineral Resources, Korea	(B-3-2) Catalytic Co-pyrolysis of Pterospermum Acerifolium and Plastic Waste, Mr. Satish Pruthviraj Bhagat, Dr B R Ambedkar National Institute of Technology Jalandhar, India	(C-3-2) Thermal decomposition of rape straw, wheat straw and black locust under torrefaction, Dr. Zsuzsanna Czegeny, Research Centre for Natural Sciences Hungarian Academy of Sciences, Hungary
9:55-10:15	(SP2-3) Cemented backfills with mine tailings for cleaner production, J. G. Jang, Korea Institute of Geoscience And Mineral Resources, Korea	(B-3-3) Determination of reaction kinetic parameters for waste plastic pyrolysis effect of process scale up, Dr. Norbert Miskolczi, University of Pannonia, Hungary	(C-3-3) Prospective pyrolysis product distribution of two rice husk varieties, Dr. Ashish N Sawarkar, MNNIT Allahabad, India
10:15-10:35	(SP2-4) Study on Desulfurization Characteristics of Limestone for the Reducing and Recycling to CFBC Bottom Ash, C.S. Baek, Korea Institute of Limestone & Advanced Materials, Korea	(B-3-4) Thermal and catalytic degradation of waste plastics collected from railway to useful products, Ms. Archana Kumari, Indian Institute of Petroleum, India	(C-3-4) Co-pyrolysis behaviors of beech wood-polyethylene mixtures, Dr. Shogo Kumagai, Tohoku University, Japan
10:35-10:55	(SP2-5) Study on recycling process of E-waste for the stabilizing treatment of power plant Bottom Ash, Y.J. Kim, Korea Institute of Limestone & Advanced Materials, Korea	(B-3-5) Effect of Metal Loading on the Performance of HZSM-5 for Plastic Degradation, Ms. Uma Dwivedi, Indian Institute of Technology Delhi, India	(C-3-5) Unraveling the secretome of Termitomyces clypeatus grown on agroresidues as a potential source for bioethanol production, Dr. Soumya Mukherjee, Indian Jute Industries Research Association, India
10:55-11:15	(SP2-6) Development of mine backfill by utilizing the power plant by-products, Yong-Kwang Cho, Hanil Cement, Korea		(C-3-6) Waste biomass valorisation through developing eco-friendly additives from sustainable biomaterials, Dr. Raj Singh, CSIR Indian Institute of Petroleum Dehradun, India
11:15-11:30	Discussion and dialogue		(C-3-7) Effect of the torrefaction temperature on the composition of liquid by-product derived from woody and herbaceous biomass, Dr. Zoltan Sebestyen, Research Centre for Natural Sciences Hungarian Academy of Sciences, Hungary
11:30-11:35	Remarks		
11:35	<b>Special session – 3</b> <b>Biomass Gasification</b> <b>Chair(s): Prof. Shinichi Sakai (Kyoto University)</b> <b>Prof. Sadhan K Ghosh (Jadavpur University, India)</b>	<b>B-4</b> <b>e-Waste (1)</b> <b>Chair(s): Prof. Yong-Chul Jang (Chungnam National University, Korea)</b>	<b>C-4:</b> <b>Adsorbent development</b> <b>Chair(s): Prof. Satoshi Mizutani (Osaka City University, Japan)</b>
11:35-11:55	(SP3-1) Session Keynote Status of Waste-Resource Energy Management in Republic of Korea, Prof. Jinwon Park, President of NIER, National Institute of Environmental Research) and KSWM, Korea	(B-4-1) Invited: e-Waste bio treatment opportunities & challenges, Prof. Shailesh Dave, Gujarat University, India	(C-4-1) Synthesis, characterization, and potential use of chemically synthesized magnetic CaFe <sub>2</sub> O <sub>4</sub> nanoparticles for adsorption of dye in aqueous phase, Mr. Kartick Lal Bhowmik, Bir Bikram Memorial College, India
11:55-12:10	(SP3-2) Development of Biomass Gasification technology in India, Prof. Dasappa, Indian Institute of Science, Bangalore, India	(B-4-2) Microwave Assisted Pyrolysis of Printed Circuit Boards, Mr. Sai Praneet Batchu, Indian Institute of Technology Madras Chennai, India	(C-4-2) Novel Activated Carbon Materials Development for Carbon Dioxide Capture, Dr. Ajay K Dalai, University of

			Saskatchewan, Saskatoon, Canada
12:10-12:25	(SP3-3) Fluidized bed gasification of biomass-based waste, Dr. Masamitsu Takahashi, Kobelco Eco-Solutions Co., Ltd. Japan	(B-4-3) Can we use the Istanbul convention on temporary admission to reduce the electronic wastes generator from imported products, Mr. dedi abdul hadi, Kitakyushu University, Japan	(C-4-3) Assessment of activated carbon through waste tyre recycling, Mr. Tirthankar Mukherjee, Jadavpur University, India
12:25-12:40	(SP3-4) Potential of Biomass Gasification in North East India, Prof. Deben Barua, Tezpur University, Assam, India	(B-4-4) Studies on Resource Recovery from E-waste via Thermo-chemical Treatment, Mr. Biswajit Debnath, Jadavpur University, India	(C-4-4) Improved Rotating Biological Contactor for High DO Diffusion and Biomass Yield, Mr. D Gnana Bharathi, CSIR Central Leather Research Institute, India
12:40-12:55	(SP3-5) Development of Biomass Gasification Process in Korea Institute of Energy Research, Kier), Dr. M.W. Seo, Korea Institute of Energy Research, Korea		
12:55-13:10	Discussion and dialogue		
13:10-13:15	Remarks		
13:15	Lunch		
14:15	Plenary K-3 The Role of Waste to Energy and its situation in Japan, Prof. Dr. Masaki Takaoka (Kyoto University, Japan)		
14:45	Tea		
15:00	Special session-4 Status of 3R in Asia and Pacific Region Chair(s): Mr. CRC Mohanty (UNCRD) Dr. Kazunobu ONOGAWA (IGES, Japan)	B-5 eWaste(2) Chair(s): Prof. Toshiaki Yoshioka (Tohoku University, Japan) Prof. Ajay K Dalai, University of Saskatchewan, Canada	C-5 Landfill and Soil Pollution Chair(s): Dr. Komsilp Wangyao (King Mongkuts University of Technology Thonburi, Thailand) Prof. S.N. Naik, Indian Institute of Technology, New Delhi
15:00-15:05	(SP4-1) Opening Remarks by H.E. Mr. Shigemoto Kajihara, Vice Minister for Global Environmental Affairs, Ministry of the Environment, Japan	15:00-15:20 (B-5-1) Issues Related to 3R with special reference to the Disposal of Electronic Waste in India, Mr. Shanmugasundaram Gopalan, Central Leather Research Institute, India	(C-5-1) Methane Oxidation Rates in Different Cover Materials Operated at Tropical Municipal Solid Waste Landfill, Mr. Rathborey CHAN, Kasetsart University Thailand, Thailand
15:05-15:25	Session Keynote (SP4-2) Advancing 3R and Resource Efficiency for Sustainable Development ~ Development of Regional 3R Forum in Asia and the Pacific, Mr. Choudhury Rudra Charan Mohanty, Environment Programme Coordinator, United Nations Centre for Regional Development, (UNCRD)	15:20-15:40 (B-5-2) Characterisation and Management of Electronic Waste in India, Mr. Sivakumaran R P, Easwari Engineering College, India	(C-5-2) The capacities of constructed wetlands on prevention of contamination by landfill leachate in Southeast Asia, Dr. Yuka Ogata, National Institute for Environmental Studies, Japan
15:25-15:35	(SP4-3) Developing State of the 3Rs in Asia and the Pacific Report, Dr. Y. Hotta, Institute for Global Environmental Strategies (IGES), Japan	15:40-16:00 (B-5-3) Development of Automatic Sorting System for Plastics Recycling of Used Small Household Appliances, Prof Woo zin Choi, The University of Suwon, South Korea	(C-5-3) Monitoring of Electronic Waste Chemicals Leaching into the Soil with Special Reference to Unprotected Landfill, Dr. Anandkumar K M, Head of the Department, India
15:35-15:45	(SP4-4) Comparative Study of Legal Definitions and Classifications of Waste in Asia and the Pacific Region, Dr. C. Liu, Institute for Global Environmental Strategies (IGES), Japan	16:00-16:20 (B-5-4) Metal solubilization from pcb of waste cell phone charger by biogenerated ferric and chromobacterium, Dr. Devayani Tipre, Gujarat University, India	(C-5-4) Environmental fate & transport of explosives in the soil, Dr. Pritam Sangwan, Ministry of Defence New Delhi, India
15:45-15:55	(SP4-5) Status of 3R and Waste Management in Malaysia, Prof P. Agamuthu,, Editor in Chief, Waste Management & Research, University of Malaya, Malaysia	16:20-16:40 (B-5-5) Extraction of metals from electronic waste by developed iron and sulfur oxidizing consortium, Ms. Asha Sodha, Gujarat University, India	
15:55-16:05	(SP4-6) Status of 3R and Waste Management in India Prof. S. K. Ghosh, President of ISWMAW, Jadavpur University, Kolkata, India	16:40-17:00 (B-5-6) Current status of Recycling Small Waste Electrical and Electronic Equipment (WEEE) and Building-up Process, Mr. Insang Jung, Korea Electronics Recycling Cooperative, South Korea	
16:05-	(SP4-7) Perspectives on 3R developments in Asia and the Pacific, Prof. Shinichi		

16:15	Sakai, Kyoto University, Japan			
16:15-16:55	<b>Open Discussion and Dialogue</b>			
16:55-17:00	<b>Closing</b>			
17:00	<b>Poster-2</b>			
18:00	<b>Cultural event</b>			
19:30	<b>Banquet</b>			
<b>10<sup>th</sup> March 2017</b>				
09:00	<b>Registration</b>	<b>APN</b> 9:00-18:00		
09:30	<b>Plenary K-4</b> Lecture by Minister Dharmendra Pradhan, Hon'ble Minister Ministry of Petroleum & Natural Gas, India			
10:00	<b>Tea</b>			
10:15	<b>A-6:</b> <b>3R Policy, MFA and LCA</b> Chair(s): Prof. Jinwon Park (Yonsei university, NIER, Korea) Dr. Renu Swarup, DBT, Govt. of India.			<b>C-6:</b> <b>Food waste</b> Chair(s): Prof. Yasuhiro Hirai (Kyoto University, Japan)
10:15-10:35	<b>(A-6-1) Hotspots Analysis for Promoting 3R and Green Procurement</b> , Prof. Yasushi Kondo, Waseda University, Japan			<b>(C-6-1) Used Cooking Oil from food establishments in Mumbai, India (A case study of the poor man's sustainability in a developing country context)</b> , Ms. Phulmani Baro, Tata Institute of Social Sciences, Mumbai, India
10:35-10:55	<b>(A-6-2) A New Policy Framework with Strategic Environmental Assessment for Effective Waste Management in Korea</b> , Dr. Namil Um, National Institute of Environmental Research, South Korea			<b>(C-6-2) Bioprocessing of fruit waste for exopolysaccharide production</b> , Ms. Avni Vaishnav, Gujarat University, India
10:55-11:15	<b>(A-6-3) Greenhouse gas reduction potential by the use of biomass-based garbage bags for household waste collection</b> , Dr. Junya Yano, Kyoto University, Japan			<b>(C-6-3) Development of a down flow microaerophilic fixed film reactor for the treatment of dye house waste water</b> , Ms. Darshna Patel, Gujarat University, India
11:15-11:35	<b>(A-6-4) How to derive rationally an economically and ecologically relevant recycling quota</b> , Prof. HeinzGeorg Baum, University of Applied Sciences Fulda, Germany			<b>(C-6-4) Component of single use items in solid waste of fast food restaurants A case study in Ho Chi Minh city, Vietnam</b> , Ms. Chi Do, Ho Chi Minh City Open University, Vietnam
11:35-11:55	<b>(A-6-5) Resource use and efficiency potential in Indian automobile industry</b> , Mr. Souvik Bhattacharjya, The Energy and Resources Institute, India			<b>(C-6-5) Biohydrogen production from dark fermentation effluent of brewery waste water using mixed cultures by photo fermentation</b> , Ms. Chaitanya Narala, Jawaharlal Nehru Technological University Hyderabad, India
11:55-12:15				<b>(C-6-6) Thermal degradation kinetics study of waste cooking oil in nitrogen atmosphere</b> , Mr. Fekadu Wako, IIT Guwahati, India
12:15-12:35		<b>(C-6-7) Enhancing Degree of Acidification of Food Waste Using Different Salts</b> , Ms. Shikha Dahiya, CSIR-IICT, India		
	<b>Valedictory/ Closing</b>			

12:35-12:40	Welcome address by Prof. Agamuthu Pariatamby, Institute of Biological Sciences, Faculty of Science, University of Malaya		APN -18:00
12:40-12:55	Awards introduced by Dr. Ishigaki & Dr. Asari, JSMCWM		
12:55-13:05	Reporting of 4th 3RINC's by Prof. S. Sakai and announcement of the invitation to the Journal, and 5th 3RINC's.		
13:05-13:15	Closing Summary by Dr D K Tuli, Executive Director, DBT-IOC Centre for Advanced Bioenergy Research		
13:15-13:20	Vote of Thanks by Dr. Thallada Bhaskar, IIP Dehradun.		
13:20	<b>Lunch</b>		
14:00	<b>Technical tour / Heritage Tour</b>		