



# The 3<sup>rd</sup> 3RINCs

## 3R International Scientific Conference on Material Cycles and Waste Management

at Melia Hotel (Hanoi)  
Viet Nam, 9-11 March 2016

### ORGANIZATION

**ORGANIZERS:** Institute of Strategy and Policy on Natural Resources and Environment (ISPONRE), Viet Nam Environment Administration (VEA), Department of Science and Technology, Ministry of Natural Resources and Environment (MONRE), Viet Nam

**CO-ORGANIZERS:** Japan Society of Material Cycles and Waste Management (JSMCWM), Korean Society of Waste Management (KSWM), Society for Solid Waste, Chinese Society for Environmental Sciences (SSW-CSES), Technical Infrastructure Agency - Ministry of Construction Vietnam and other regional and global academic networks

**SUPPORTERS:** UNCRD (United Nations Centre for Regional Development), ISWA (International Solid Waste Association), IGES (Institute for Global Environmental Strategies), JICA (Japan International Cooperation Agency), MOEJ (Ministry of the Environment, Government of Japan) and others

### SPONSORS





# PROGRAM AT A GLANCE

	3/9 (WED)						3/10 (THU)					
	Room A	Room B	Room C	Room D	Room E	Room F	Room A	Room B	Room C	Room D	Room E	Room F
	Grand Ballroom-1 1F	Grand Ballroom-2 1F	Room 3 2F	Room 7 2F	Grand Ballroom-3 1F	Exhibition 1F	Grand Ballroom-1 1F	Grand Ballroom-2 1F	Room 3 2F	Room 7 2F	Grand Ballroom-3 1F	Exhibition 1F
9:00							Keynote-4 Prof. & Dr. Jinwon Park					Exhibition
9:30							Opening					
10:00							Keynote-1 Dr. Nguyen Van Tai					
10:30							Keynote-2 Dr. Sunil Herat					
11:00							Keynote-3 Mr. Hermann Koller					
11:30	logistic Information					Break						
12:00	Lunch						Special-3 Bio					Exhibition
12:30							S-7 Industrial waste		S-8 3R technology		Special-5 VN	
13:00												
13:30												
13:50												
14:00	S-1 GHGs emission		S-2 Waste to Energy (1)		S-3 3R policy							
14:20							Break					
14:40							S-4 Biomass waste		S-5 Waste to Energy (2)		S-6 MSW management	
15:00							Special-2 EPR					Exhibition
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## Room A: Ballroom-1 / 9th 13:50-15:40

### Special session-1 3R Policy & Science Cooperation Session by UNCRD & 3RINCs

Chair: Mr. CRC Mohanty (UNCRD)

Prof. Shinichi Sakai (Kyoto University)

13:50-14:20	SP1-1	<b>Keynote Lecture</b> <b>3R and Resource Efficiency in the Context of 2030 Agenda for Sustainable Development</b> Mr. CRC Mohanty (Environment Programme Coordinator, UNCRD)
14:20-14:35	SP1-2	<b>Status of Science and Technology for 3R in India: What do they imply for Swachha Bharat (Clean India) Mission?</b> Dr Thallada Bhaskar (Principal Scientist & Head, Thermo-Catalytic Processes Area (TPA), Bio-Fuels Division (BFD), CSIR-Indian Institute of Petroleum (IIP), India)
14:35-14:50	SP1-3	<b>Material Flow Analysis as a Base for Benchmarking in Waste Management</b> Dr. Astrid Allesch (Vienna University of Technology, Austria)
14:50-15:05	SP1-4	<b>Science based Policy Initiatives towards a Sound Material Cycle Society in Japan</b> Mr. Yoshinori Suga (Deputy Director, Office of Sound Material-Cycle Society, Waste Management and Recycling Department, Ministry of the Environment, Japan)
15:05-15:20	SP1-5	<b>Science-Policy-Business Interface towards Economic Utilization of e-Waste</b> Dr. Sunil Herat (Senior Lecturer in Waste Management, Griffith University) Dr. Prasad Modak (President, EMC-India)
15:20-15:35		Discussion and dialogue
15:35-15:40		Remarks from Mr. Masaaki Kobayashi - Vice Minister of MOEJ (Ministry of Environment Japan)

#### Background and Purpose:

The objective of the UNCRD-3RINCs Special Session is to create a science-policy interface to strengthen technical and scientific input to policy consultations at the intergovernmental Regional 3R Forum in Asia and the Pacific, which has been convened since 2009 through the joint effort of UNCRD and the Ministry of the Environment of Japan. At the same time, the Special Session aims at promoting a partnership between the Regional 3R Forum in Asia and the Pacific and 3RINCs to enable the research community for further discussions on policy recommendations and various issues emerged from the Forums. The 6th Regional 3R Forum in Asia-Pacific held in Maldives in 2015 underscored the importance of giving special attention to new emerging waste streams such as industrial waste, e-waste, plastics in coastal and marine environments, construction and demolition waste, hazardous waste and chemicals which are serious threat to sustainability. While these issues have reached a stage which is beyond the capacity of developing cities and municipalities to manage within the often limited means available to city governments, integrated 3R and resource efficiency are important driver of economic success in a world where resources are scarce and finite. As a consequence, progress towards sustainable waste management can have significant benefits for the overall environment, development and the quality of life.

The 6th Regional 3R Forum in Asia-Pacific also recommended, among other, the following – (a) need to facilitate a public conversation and foster debate about the need to align environment and development outcomes and to highlight that, in fact, especially in the medium and long term, there is no contradiction between sustainable natural resource management, waste minimization, climate mitigation and economic growth; (b) need to promote regional transformative policies such as creation of regional cap and trade system for carbon emissions or efforts towards a more comprehensive ecological budget; (c) the governments should consider establishing a regional advisory panel of eminent scientists and community leaders to support the policy community by providing evidence-based trusted advice for policymakers on how to improve economic prosperity and human well-being in the region through resource efficiency, waste minimization and sustainable natural resource management. A network of regional innovation centres for resource efficiency, waste and emission minimization could be established to drive the innovation culture in economies in Asia and the Pacific and provide practical examples and technologies that help countries to achieve their policy objectives in the domain of decoupling wealth from resource use and waste; and (d) countries should take into account the contribution of 3Rs in achieving the sustainable development goals (SDGs) in the post-2015 development agenda – “Transforming Our World: The 2030 Agenda for Sustainable Development”.

The special session will aim to discuss environmental policies and the present status and perspective of the future network of the environmental, 3R, and resource efficiency related research and developments in Asia-pacific region -