

**The 3rd International Symposium on Natural and Technological Risk Reduction at Large Industrial Parks**

**Program**

Time		Chair	Nakanoshima Center #703	Presentation No.
8:30	30	<b>Registration</b>		
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	50			
9:00	00	<b>Prof. Aoki</b>	Opening Remarks (Prof. Aoki)	
	10		Dr. Ana Maria Cruz (Professor, Kyoto University) Summary of the Workshop of Tools for Natech Risk Management	1
9:30	30		Valerio Cozzani (Professor, University of Bologna) Natech Quantitative Risk Assessment	2
	40		Maria Camila SUAREZ (Kyoto University) A Comprehensive Natech Performance Rating System – NatechRateME: A first approach to the establishment of key elements	3
	50	<b>Coffee break</b>		
10:00	00	<b>Prof. Araki</b>	Elisabeth Krausmann (European Commission, Joint Research Centre) Natech risks to offshore installations in Europe	4
	10		Hidenari MAKINO (Osaka University) Preservation of marine traffic for Natech risk prevention - Behavior analysis of actual ship evacuation using AIS data during Tsunami -	5
11:00	00		Hirotsada Hashimoto (Kobe University) Numerical analysis of sloshing load under a seismic motion assuming Nankai Trough earthquake	6
	20		Ernesto Salzano (Professor, University of Bologna) Integrated approach to the seismic vulnerability assessment of industrial pipework and pipelines	7
11:30	30	<b>Lunch</b>		
	40	<b>Lunch</b>		
	50	<b>Lunch</b>		
12:00	00	<b>Prof. Hashimoto</b>	Takaya Matsuoka (General Manager, Infrastructure Project, JGC Corporation) Safety Design of LNG Plant considering Tsunami	8
	10		Wai Phyo Kyaw (Osaka University) Experimental and Numerical Analysis Oil Storage Movement in Tsunami Wave	9
14:00	00		Thaw Tar (Osaka University) Experimental study on the effect of flexible pipes for reducing tsunami-induced damage of oil tanks located in industrial complexes in Osaka Bay area	10
	10		Kazuhiro Onishi (Osaka University) Development of Body Force Model to express the effect of Flexible Pipes to reduce the Tsunami-induced damage of Oil tanks	11
	20	<b>Coffee Break</b>		
15:00	00	<b>Prof. Cruz</b>	Angelica Baylon (Professor, Maritime Academy of Asia & the Pacific (MAAP)) NATECH Project in the Philippines : Moving Forward	12
	10		Shunyo Kitaguchi (Osaka University) Experimental study on estimation of tsunami wave load on storage tank in coastal area	13
16:00	00		Cordeiro D. C. (Osaka University) Numerical model for investigating the effects of oil-water interface tension reduction on the fate of an oil and gas deepwater spill	14
	10		Tomoaki NISHINO (Building Research Institute) Simulation of fire spread on floating oil in the 2011 Japan tsunami	15
16:30	30		Takuya Okubayashi (Osaka University) A study on a method to mitigate tsunami induced fires caused by oil spill	16
	40		Giuseppe Aliperti (Sant'Anna School of Advanced Studies) Damages triggered by large-scale Natech disasters: A side effect of the Fukushima nuclear accident	17
17:00	00		Closing Remarks (Prof. Cruz)	
	10	<b>Coffee Break</b>		
18:00	0	<b>Party (9F SALON DE L'AMICAL)</b>		
	10			
	20			
18:30	30			
	40			
19:00	00			
	10	<b>Party (9F SALON DE L'AMICAL)</b>		
	20	<b>Party (9F SALON DE L'AMICAL)</b>		

 : invited speakers