

THE 4th KOREA/JAPAN/TAIWAN JOINT SEMINAR

for Disaster Prevention Measures of Long Tunnel

1. JOINT SEMINAR PROGRAM

(1) MORNING AGENDA

TIME	SUBJECT	PANELIST
09:20-09:45	Registration	
09:45-10:00	Welcome Remarks(Welcome speech/Congratulatory message/ Report proceedings speech)	
10:00-10:10	Break (Photo Time)	
10:10-10:30	Keynote Speech(1) : KOREA Speaker : Ph.D Hyun-Joon, Kim <Fire Research Division, Korea Institute of Construction Technology>	Prof. Sang-Hwan, Kim Hoseo University, Vice President of Korean Tunnelling and Underground Space Association
10:30-10:40	Panel Discussion, Q&A, Certificate	
10:40-11:10	Keynote Speech(2) : JAPAN <u>Some Simulation Methods on Behavior of Thermal Fume in Tunnel Fire (Fundamental Equations and Numerical Methods)</u> Speaker : Prof. Nobuyoshi Kawabata <Kanazawa University>	
11:10-11:20	Panel Discussion, Q&A, Certificate	
11:20-11:30	Coffee Break	
11:30-11:50	Keynote Speech(3) : TAIWAN <u>Discussion of the snow mountain tunnel fire in Taiwan</u> Speaker : Prof. Tzu-Sheng <President of SFPE Taiwan Chapter>	
11:50-12:00	Panel Discussion, Q&A, Certificate	
12:00-13:30	Lunch Time	

(2) AFTERNOON AGENDA

TIME	SUBJECT	PANELIST
13:30-13:45	<u>Title of Presentation</u> (KOREA) Speaker : Ph.D Nag-Young, Kim <Korea Expressway Corp.>	
13:45-14:00	<u>Road Tunnel Fire and Safety-Effect of the Water-based Fire Suppression System</u> (JAPAN) Speaker : Masahiro Yokota <Central Nippon Highway Eng. Tokyo Company Limited>	Prof. Young-Jin, Kwon Hoseo University, Director of Korean Tunnelling and Underground Space Association
14:00-14:15	<u>The Critical Velocity of Longitudinal Ventilation and Assessment of Human Lift Safety for Tunnel Bus Fire by FDS Simulation</u> (TAIWAN) Speaker : Prof. Wu, Guan-Yuan <Central Police University>	
14:15-14:30	<u>An Alternative Approach to the Conventional Transverse Ventilation for the Road Tunnel</u> (KOREA) Speaker : Ph.D Sung-Wook, Yoon <GS E&C Co., Ltd.>	
14:30-14:50	Panel Discussion, Q&A, Certificate	
14:50-15:00	Coffee Break	
15:00-15:15	<u>Fire Resistance Design and Heat Transfer Analysis of Tunnel Structures in Downtown Area</u> (KOREA) Speaker : Ph.D Jeong-Hee, Kim <PNR System Co., Ltd.>	Prof. Young-Jin, Kwon Hoseo University, Director of Korean Tunnelling and Underground Space Association
15:15-15:30	<u>Fire Simulation on Smoke Behaviour in Small-sized Road Tunnels for Passenger Cars</u> (JAPAN) Speaker : Ph.D Tomoki Kikumoto <ECHO PLAN Co., Ltd.>	
15:30-15:45	<u>Title of Presentation</u> (JAPAN) <u>Simulation of Air Cooling by Water Spray</u> Speaker : Prof. Masato Hasegawa <Kanazawa University>	
15:45-16:00	<u>Fire Safety and Evacuation of Road Tunnel using Computational Fluid Dynamics</u> (KOREA) Speaker : Prof. Ju-Hee, Lee <Hoseo University>	
15:50-16:10	Panel Discussion, Q&A, Certificate	
16:10-16:15	Coffee Break	

TIME	SUBJECT	PANELIST
16:15-16:30	<u>Fire Risk Analysis based on CRB (Cost/Risk-Benefit Ratio) (KOREA)</u> Speaker : Joon-Ho, Hwang <DNV Korea Co., Ltd.>	
16:30-16:45	<u>Characteristic of Smoke Descent in Tunnel Fire (Analysis of Rectangular Tunnel) (JAPAN)</u> Speaker : Shinji Emoto <Pacific Consultants Co., Ltd.>	
16:45-17:00	<u>Analysis of Performance Evaluation of Exhaust Flue (JAPAN)</u> Speaker : Yashhiro Mikame <Metropolitan Expressway Company Limited>	
17:00-17:15	<u>The Effect of Vehicular Obstruction on Fire Behavior and Smoke Movement in Tunnel (TAIWAN)</u> Speaker : Tsai, Kuang-Chung <National Kaohsiung First University of Science and Technology>	
17:15-17:35	Panel Discussion, Q&A, Certificate	
17:35-18:10	Poster Presentation	
18:10-18:30	Closing Ceremony	

(3) POSTER PRESENTATION

COUNTRY	NAME	DIVISION	PAPER TITLE
KOREA	Prof. Ji-Oh, Yoo	Dept. of building Mech. Eng., Shinheung College	Standard of Emergency Facilities and Quantitative Risk Assessment Method for Road Tunnel
	Dong-Eun, Kim	Hoseo University	An Analysis Study on the Namsan No.1 Tunnel Fire Case using Fireles
JAPAN	Ph.D student Miho Seike	Graduated School of National Science and Technology, Kanazawa University	Influence of Tunnel Length Regarding Evacuation in a Fire Accident in Road Tunnels
	Master course, Masato Kuroiwa	Graduated School of National Science and Technology, Kanazawa University	Experiment of Evacuation Environment at Tunnel Fire by Use of RC Model and Model Tunnel