

HVTT 16 Program

Day 1: September 7 th Tuesday			
14:00-14:20	Opening Speeches	WANG Yang Vice Minister, Ministry of Transport (Speech Read by Zhang Jinqun, President of RIOH)	
		Loes Aarts President, HVTT Forum	
14:20-15:50	Keynote Speeches	LI Bin, Vice President, RIOH Title: Current State and Prospect of Road Transport Vehicle Technology in China	
		Henrik Henriksson, CEO, H2 Green Steel Title: Achieving Substantial CO ₂ Reductions in Base Industries—Including Road Transportation	
		XU Honglei, Vice President, Transport Planning and Research Institute Ministry of Transport Title: Opportunities and Challenges for the Implementation of the Carbon Peak and Carbon Neutrality for China's Transport Industry	
15:50-16:00	Tea Break		
Site	Zoom: 945 6494 9261	Zoom: 965 5161 4393	Zoom: 998 7649 7277
16:00-20:00	S 1 Moderator: ZHOU Wei Intelligent Vehicle Policies, Standards and Vehicle Road Coordination	S 2 Moderator: SHAO Zhonghua Tire Performance and Aerodynamics	S 3 Moderator: Mats Harborn Life of Road Assets
Day 2: September 8 th Wednesday			
Site	Zoom: 922 3480 3244		
08:00-12:00	S 4 Moderator: ZHANG Guosheng Road Accident Analysis and Emergency Rescue		

12:00-14:00	Tea Break		
Site	Zoom: 963 6934 2315	Zoom: 949 2001 4724	Zoom: 987 2163 4752
14:00-18:00	S 5 Moderator: ZHANG Hao PBS & HCT	S 6 Moderator: SHAO Zhonghua Vehicle Performance Evaluation	S 7 Moderator: Mats Harbon Intelligent Access Program
Day 3: September 9 th Thursday			
Site	Zoom: 934 1568 6901	Zoom: 970 1776 7141	
14:00-18:00	S 8 Moderator: LI Xiao Energy Saving and Emission Reduction and New Energy Vehicles	S 9 Moderator: Mats Harbon Logistics, Transportation and Technology	
18:00-18:15	Tea Break		
18:15-19:00	Closing Ceremony	Excellent Paper Awards	Zoom: 968 8814 3747 Meeting Room, 13 th Floor, RIOH Moderator: ZHOU Wei Director, RIOH
		Mats Harborn Vice President, HVTT Forum	
		HVTT 17 Presentation (Handover)	
		LI Bin Vice President, RIOH	

Intelligent Vehicle Policies, Standards and Vehicle Road Coordination

S 1: 2021/09/07 Moderator: ZHOU Wei Site: Zoom 945 6494 9261		
Time	Title	Speakers
16:00—16:25	8: Vista: Vision Supported Truck Docking Assistant	Karel Kural, Jason van Kolfshoten, Jan Benders, Kai Essig, Jeroen Delcour, Pedro Ribeiro, Dixon Devasia, Philipp Haase, Netherlands
16:25—16:50	10: Effect of Headway Distance on Truck Platoon Dynamic on Road Performance	Saizo Takeuchi, Australia
16:50—17:15	Application of Road Coordination Technology in Transport Industry	XU Changqing, Director, Huawei C-V2X
17:15—17:40	Test and Evaluation of Self-driving Commercial Vehicles for Trunk Logistics	ZHAO Kan, Deputy General Manager, Zhonggong Gaoyuan (Beijing) Automobile Inspection Technology Co., Ltd.
17:40—17:55	Discussion	Moderator: ZHOU Wei
17:55—18:05	Tea Break	
18:05—18:30	Key Technologies and Prospects of Truck Automated Driving	QU Dayi, Professor, Qingdao University of Technology
18:30—18:55	31: Current Situations on High Capacity Transport and Truck Platooning in Japan	Daisuke Watanabe, Takeshi Kenmochi, Keiju Sasa, Tetsuro Hyodo, Japan
18:55—19:20	34: Investigation into Dynamic Issues of Truck Platooning Systems	Seamus Parker, Adime Bonsi, Canada
19:20—19:45	Intelligent Connected Vehicles: Trends and Challenges	QIN Kongjian, Ph.D/Senior Engineer, China Automotive Technology and Research Center Co., Ltd.
19:45—20:00	Discussion	Moderator: ZHOU Wei

Tire Performance and Aerodynamics

S 2: 2021/09/07 Moderator: SHAO Zhonghua Site: Zoom 965 5161 4393		
Time	Title	Speakers
16:00 – 16:25	17: Truck Tire Rolling Resistance in Real Usage	Frederic Domprobst, France
16:25 – 16:50	52: Managing Tyre Modelling in a PBS System	Les Bruzsa, John de Pont, Australia
16:50 – 17:15	19: Experimental Evaluation of Low Rolling Resistance Tyres for Heavy Goods Vehicles in South Africa	Frank Kienhofer, Xiaoxiang Na, Christopher de Saxe, Rehaan Abdulla, Hein Venter, David Cebon, South Africa
17:15 – 17:40	44: Tyre Modelling for High Capacity Vehicle Simulations	Mattias Hjort, Sogol Kharrazi, Niklas Fröjd, Teppo Siltanen, Sweden
17:40 – 17:55	Discussion	Moderator: SHAO Zhonghua
17:55 – 18:05	Tea Break	
18:05 – 18:30	23: Comparison of Rolling and Air- Drag Resistance for Longer and Shorter Combinations	Lennart Cider, Björn Bergqvist, Helene Jarlsson, Emil Olsson, Lena Larsson, Sweden
18:30 – 18:55	26: AEROFLEX Transport Efficiency Potential of EMS Vehicles Using Logistic Use Case	Emiel Van Eijk, Gertjan Koornneef, Steven Wilkins, Paul Mentink, Netherlands
18:55 – 19:20	86: AEROFLEX – AERodynamic and FLEXible Trucks	Ben Kraaijenhagen, Cor van der Zweep, Germany
19:20 – 19:45	TBD	TBD
19:45 – 20:00	Discussion	Moderator: SHAO Zhonghua

Life of Road Assets

S 3: 2021/09/07 Moderator: Mats Harbon Site: Zoom 998 7649 7277		
Time	Title	Speakers
16:00—16:25	36: Trucks Matter! Supportive Regulatory and Compliance Frameworks to Extend the Life of Road Assets	Gavin Hill, John de Pont, Paul Nordengen, Australia
16:25—16:50	85: FUTURE ASSET MANAGEMENT ‘Role of Road Freight Traffic Load Information’	Rick Smits, Joep Paulissen, Netherlands
16:50—17:15	41: Dynamic Road Damage Caused by Heavy Vehicles Due to Road Crossfall	Anton Steenkamp, Frank Kienhöfer, Christopher de Saxe, South Africa
17:15—17:40	48: High Capacity Vehicles Road Wear Impact in South Africa	Lana Kemp, Anton Steenkamp, Christopher de Saxe, South Africa
17:40—17:55	Discussion	Moderator: Mats Harbon
17:55—18:05	Tea Break	
18:05—18:30	54: Trucks Matter! Proactive Maintenance and Asset Management to Extend the Life of Road Assets	Adam Zofka, Lori Tavasszy, Aleš Žnidarič, Thomas Moser, Petra Paffen, Netherlands
18:30—18:55	56: Trucks Matter! Traffic and Logistics Management to Extend the Life of Road Assets	Franziska Schmidt, Maja Piecyk, France
18:55—19:20	Semi-rigid Base Long-life Asphalt Pavement in Heavy Traffic	WANG Xudong, Deputy Director, RIOH
19:20—19:45	37: Trucks Matter! The Need for a New Policy Framework to Extend the Life of Road Assets	Jonathan Regehr, Loes Aarts, Canada
19:45—20:00	Discussion	Moderator: Mats Harbon

Road Accident Analysis and Emergency Rescue

S4: 2021/09/08 Moderator: ZHANG Guosheng Site: Zoom 922 3480 3244		
Time	Title	Speakers
8:00—8:25	65: Truck Struck Rear-End Crashes: Problem Scope and an Area of Opportunity	Richard Hanowski, Susan Soccolich, Matthew Camden, Andrew Schaudt, Jean Paul Talledo Vilela, Mohd Khairul Alhapiz Ibrahim, Mohd Syazwan Solah, Khairil Anwar Abu Kassim
8:25—8:50	Safety Technology for Road Transportation of Dangerous Goods	REN Chunxiao, Associate Research Fellow, RIOH
8:50—9:15	22: Comparison of Various Methods to Model Fluid Slosh and Its Effects on Performance Based Standards Simulations	Andrej Bucko, Bob Wright, Michael Rhodes, Magnus Heywood, Robert Smedley, Australia
9:15—9:40	81: Research on Demand of Intelligent and Unmanned Emergency Rescue Equipment for Typical Geological Disasters	ZHANG Xuewen, Associate Research Fellow, RIOH
9:40—9:55	Discussion	Moderator: ZHANG Guosheng
9:55—10:05	Tea Break	
10:05—10:30	Safety Risk Prevention and Control Technology of Road Transport Enterprises	LUO Wenhui, Ph.D, RIOH
10:30—10:55	Safer Road Transport with Better Danger Identification Capability	WU Chuna, Ph.D, RIOH
10:55—11:20	Application of Box Girder Cranes in Heavy Vehicles for Recovery and Rescue	LIU Hongli, Engineer, RIOH
11:20—11:45	7: Identifying 16000 Unsafe Curves on State Roads in Sweden	Johan Granlund, Sweden
11:45—12:00	Discussion	Moderator: ZHANG Guosheng

PBS & HCT

S 5: 2021/09/08 Moderator: ZHANG Hao Site: Zoom 963 6934 2315		
Time	Title	Speakers
14:00—14:25	53: A Review of Three PBS Standards	Les Bruzsa, John de Pont, Australia
14:25—14:50	Test and Optimization of Braking Response Time of Double Semi-trailer Combinations	XIAO Wei, Engineer, China Automotive Engineering Research Institute Co., Ltd
14:50—15:15	69: Development of Environments to Test Driver Assist Functions for Reversing an A-double Combination Vehicle	Nrupathunga Ashok, Mats Jonasson, Maliheh Sadeghi Kati, Akhil Srinivas, Anand Prabhu, Vikram Parshetti, Pratham Jain, Lohith Reddy, Sweden
15:15—15:40	71: Gaussian Processes and PBS Assessment of Articulated Vehicles	Joop Pauwelussen, Netherlands
15:40—15:55	Discussion	Moderator: ZHANG Hao
15:55—16:05	Tea Break	
16:05—16:30	43: Requirements on coupling strength of B-triple and Truck-B-Double Combinations	Bruno Augusto, Sogol Kharrazi, Fredrik Bruzelius, Bolennarth Svensson, Sweden
16:30—16:55	39: Accessibility Performance (Space Clames in Intersections) and Legislation Comparison for Heavy Truck Combinations	Lena Larsson, Emil Pettersson, Krishna Kashampur, Clive Misquith, Sweden
16:55—17:20	42: Tractor Length Influence on Traffic Safety and Efficiency	Fredrik Bruzelius, Sogol Kharrazi, Bruno Augusto, Mattias Hjort, Sweden
17:20—17:45	20: Optimal Path Planning for Rearward Docking of Articulated Vehicles	Joop Pauwelussen, Karel Kural, Netherlands
17:45—18:00	Discussion	Moderator: ZHANG Hao

Vehicle Performance Evaluation

S 6: 2021/09/08 Moderator: Mats Harbon Site: Zoom 949 2001 4724		
Time	Title	Speakers
14:00—14:25	62: Research on Test Method and Evaluation System of Performance of Semi-trailer Tractor	Chaozhi Huang, Lei Xu, Jinying Zhou, Jun Long, China Automotive Engineering Research Institute Co., Ltd
14:25—14:50	82: A Real-Time Reliable Method of Tanker Rollover Warning Based on Vehicle-Road Collaborative Perception	XU Li, WEI Kun, ZHOU Wei, REN Chunxiao, NI Peizhou, Southeast University
14:50—15:15	33: Assessment of Vans' Braking Performances Depending on Load and Road Characteristics	Mohamed Bouteldja, Veronique Cerezo, Florian Daize, Bernard Jacob, France
15:15—15:40	9: Reducing CO ₂ and Costs by Using the Space under Semi-trailers to Carry 31% Extra Cargo on Pallets	Pauline Dawes, UK
15:40—15:55	Discussion	Moderator: SHAO Zhonghua
15:55—16:05	Tea Break	
16:05—16:30	Smart Mobility Empowering Cities	Richard Yeo, CFO, ARRB
16:30—16:55	2: An Eigenvalue Study of Articulated Heavy Vehicles with Central Axle Trailers	ZHOU Qinghui, Associated Professor, Beijing University of Civil Engineering and Architecture
16:55—17:20	Research on Technology of a Self-unloading Semi-trailer with Chain-driven Rubber Conveyor Belt for Unloading	WANG Dongwen, President, Shandong Jilu Automobile Modification Co., Ltd.
17:20—17:45	Passive Safety Development of Light Commercial Vehicle Based on EU Safety Technology Regulation	WANG Sanxia, Senior Engineer, Beiqi Foton Motor Co.,Ltd
17:45—18:00	Discussion	Moderator: SHAO Zhonghua

Intelligent Access Program

S 7: 2021/09/08 Moderator: Mats Harbon Site: Zoom 987 2163 4752		
Time	Title	Speakers
14:00—14:25	25: Evolution of Intelligent Access in Australia - A case study in stakeholder engagement	Gavin Hill, John Gordon, Australia
14:25—14:50	38: Applying a Risk-Based Approach to Road Access Using Telematics	Gavin Hill, Scott Greenow, Australia
14:50—15:15	88: Understanding Intelligent Access and Policy Transfer Through Social Network Analysis	Christopher Walker, Alex Moulis, Australia
15:15—15:40	90: The Promising Evolution of Intelligent Access: From Australia to Europe	Christopher Walker, Gavin Hill, John Gordon, Ben Kraaijenhagen, Karel Kural, Loes Aarts, Alex Moulis, Australia
15:40—15:55	Discussion	Moderator: Mats Harbon
15:55—16:05	Tea Break	
16:05—16:30	51: Intelligent and Smart Access—A Way to Increase the Benefits and Ease the Implementation of High Capacity Transport	Jerker Sjögren, Sweden
16:30—16:55	59: Intelligent Access and Geofencing – Challenges and Opportunities in Sweden	Sten Wandel, Thomas Asp, Sweden
16:55—17:20	63: Sustainable Transport Legislation Using PBS & Comparative Methodologies for Bridge Access. Project VAD Uruguay	Alejandra Efrón, Robert Pearson, John Woodrooffe, Neal Lake, Anthony Germanchev, Guillermo Hughes, Hector Giagante, Brian Dwyer, Argentina
17:20—17:45	55: HV Intelligent Access and E-Waybills Development in Estonia	Taavi Tõnts, Marko Jürimaa, Inna Nosach, Estonia
17:45—18:00	Discussion	Moderator: Mats Harbon

Energy Saving and Emission Reduction and New Energy Vehicles

S 8: 2021/09/09 Moderator: LI Xiao Site: Zoom 934 1568 6901		
Time	Title	Speakers
14:00—14:25	Key Technologies and Big Data Analysis of New Energy Vehicle Development	WANG zhenpo, Professor, Beijing Institute of Technology
14:25—14:50	Application of Polymethoxydimethyl Ether in Heavy Diesel Vehicles	CHEN Hao, Deputy Dean, Chang'an University
14:50—15:15	32: Maximising Coasting to Reduce Fuel Consumption of Heavy Goods Vehicles	Joshua Subel, Daniel Ainalis, Julien Lepine, David Cebon, UK
15:15—15:40	Key Technologies and Solutions for Pure Electric Vehicles	PAN Hongming, Vice President, BYD Commercial Vehicle Research Institute
15:40—15:55	Discussion	Moderator: LI Xiao
15:55—16:05	Tea Break	
16:05—16:30	66: Modelling and Mapping of Heavy-Vehicle Energy Consumption	Nicolas Samson, William Levesque, André Bégin-Drolet, Julien Lépine, Canada
16:30—16:55	Experimental Use of New Energy Vehicles in Logistics Transport	ZHANG Yu, Manager, IKEA Trading (China) Co., Ltd.
16:55—17:20	70: Fuel Consumption in Signalized Intersections: Potential Savings	Nicolás Deschle, Ernst Jan van Ark, René van Gijlswijk, Robbert Janssen, Netherlands
17:20—17:45	TELD Charging Network Enables Special Vehicle Industry	LU Wengang, Director, TELD New Energy Co., Ltd
17:45—18:00	Discussion	Moderator: LI Xiao

Logistics, Transportation and Technology

S 9: 2021/09/09 Moderator: Mats Harbon Site: Zoom 970 1776 7141		
Time	Title	Speakers
14:00 – 14:25	40: Current Status of the Road Freight Fleet in Indonesia, and Potential Pathways Toward Improving Its Environmental Performance	Tim Breemersch, Joko Purwanto, Nahry, Belgium
14:25 – 14:50	87: The freight hub concept and infrastructure asset manager perspective on it	Olivier Arendsen, Frans Nieman, Anne Dijkstra, Tess Stribos, Netherlands
14:50 – 15:15	83: A Future Outlook for Traffic Weight Measurements in The Netherlands	Adri Vervuurt, Hendrik Van Meerveld, Loes Aarts, Netherlands
15:15 – 15:40	China Current Situation of Fuel Cell Vehicle Application in Transport	ZHAO Hongxue, Ph.D, RIOH
15:40 – 15:55	Discussion	Moderator: Mats Harbon
15:55 – 16:05	Tea Break	
16:05 – 16:30	58: White Paper on Transport Economy for The Chinese Transport Market	Mats Harborn, Wang Boyong, Yang Jie, Sweden
16:30 – 16:55	Development and Application of Modular Logistics	TANG Ying, Professor, University of Science and Technology Beijing
16:55 – 17:20	Integrated Development of New and Old Taxi Models	YU Mingyuan, Director, RIOH
17:20 – 17:45	67: A Methodology for Self-Regulation on High Capacity Transport. Mexico	Salvador Saavedra, Alex Theisen, Mexico
17:45 – 18:00	Discussion	Moderator: Mats Harbon