

MAGLEV'2006 The 19th International Conference on Magnetically Levitated Systems and Linear Drives

Time Table 13 September 2006

Hall / Saal 4+5

Chairmen: Mr. Witt / Prof. Masada

9 h 30	Plenum Prof. Masada (Uni Tokyo) ✓ International Steering Committee	
9 h 45	Plenum 140 Parl. StS Großmann (BMVBS) ✓ Greeting	
10 h 00	Plenum 142 Dr. StS Staupe ✓ Greeting	
10 h 15	Plenum 158 MdB Eichel ✓ Parliamentary discussion	
10 h 25	Plenum 122 Mr. von Randow (BMVBS) ✓ innovation of transport technology	
10 h 40	Plenum 44 Dr. hc WU Xiangming (NMTE R&D) ✓ Maintenance experience of Shanghai MAGLEV Demonstration Line and further application of MAGLEV in China	
11 h 00		

Coffee Break

Chairman: Mr. Witt

11 h 30	Plenum Mr. Witt (DCo) ✓ National Organization Committee	
11 h 40	Plenum 34 Mr Sawada (JR-Central) ✓ The status of development and running tests of superconducting MAGLEV	
11 h 55	Plenum 115 Min.Dirig. Wellner (StMWIVT) ✓ Project Munich Report	
12 h 10	Plenum 3 Dr. Keil (DB MB) ✓ State of progress on the high-speed maglev line project between Munich's central railway station and its airport	
12 h 25	Plenum 147 Bereichsvorstand Sens (SAG) ✓ Transrapid system: Development and State of the Art	
12 h 40	Plenum 148 Vorstand Dr. Atzpodien (TKT-TR) ✓ The most advanced maglev system: Transrapid with the new vehicle TR09	
12 h 55	Plenum 159 Dr. Kerkloh (FMG) ✓	
13 h 10	Munich Airport	

Lunch Break

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	Hall / Saal 4+5	Conference Room K1	Conference Room K2	Conference Room K3	Conference Room K4
	<i>Chairmen: Mr. Wackers / Prof. Yan Luguang</i>	<i>Chairman: Mr. Rausch</i>	<i>Chairman: Mr. Rebentisch</i>	<i>Chairman: Mr. Schöll</i>	<i>Chairman: Prof. Schultz</i>
15 h 40	Topic 1 49 Dr. LIU Wan-ming (NMTE R&D) ✓ Research in target speed value of High-Speed MAGLEV Transportation Project	Topic 3 126 Mr. Castelli-Dezza (PoliMi) ✓ Design aspects of coils for EDS levitation systems	Topic 4 7 Mr. Rudolph (DB MB) ✓ From entry into service to scheduled running - the route to regular operation of the high-speed maglev line between Munich's central station and its airport	Topic 6 109 Mr. Schwindt (TRI) ✓ Guideway	Topic 2 22 Mr. Bird (Uni Wisconsin) ✓ The experimental verification of the lift, thrust and guidance forces created by an electrodynamic wheel rotating over a split-sheet guideway
16 h 00	Topic 1 121 Mr. Nissen (DCo) ✓ Actual status WEP	Topic 3 63 Mr. Murai (JR-Central) ✓ Harmonic Characteristics of SC Coil Configuration for EDS Maglev to Reduce Leakage Flux	Topic 4 58 Mr. Kron ✓ Application Design Assessment Engines	Topic 6 112 Mr. Hauke (TRI) ✓ Guideway Maintenance	Topic 2 21 Mr. Kubota (JR-Central) ✓ Characteristics of superconducting magnetic bearings for 50kWh-class flywheel system
16 h 20	Topic 1 146 Mr. Kwok (HSST) ✓ The HSST technology - the guided transit system for the future	Topic 3 64 Mr. Jeong-Min Jho (KIMM) ✓ A Fuzzy based treatment to reduce air-gap disturbance at the rail joints with step-wise rail joint	Topic 4 57 Prof. Giras (Magplane) ✓ Magplane Design for safety and risk assessment	Topic 6 53 Mr. Bohlscheid (TÜV) ✓ Transrapid Guideway: A New Design of Long Stator Packs Fastening	Topic 2 83 Dr. Ohashi (Kansai Uni) ✓ Basic Propulsion Characteristics of the Superconducting-Permanent Magnet Hybrid Conveyance System
16 h 40	Topic 1 42 Ms. LIU Yuhong (CAS) ✓ The Developmental Status and Future Prospects of MAGLEV Technology	Topic 3 35 Mr. Nishikawa (JR-Central) ✓ Development of New-Type Superconducting Magnets for Superconducting MAGLEV	Topic 4 52 Mr. Steiner (TÜV) ✓ Safety Assessment for the Maglev Vehicle - Experience Gained and Lessons Learned	Topic 6 125 Mr. Suding (IG Marx) ✓ Geometry Requirements for track-guided High-speed Traffic Systems	Topic 2 152 Mr. Fiske (Launchpnt) ✓ The Magtube Low Cost Maglev transportation system
17 h 00					

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	<i>Chairman: Prof. Stephan</i>	<i>Chairmen: Mr. Fürst / Mr. Takahashi</i>	<i>Chairman: Mr. Seifen</i>	<i>Chairman: Dr. Jänsch</i>
9 h 00	Topic 1 99 Mr. Gurol (GA) ✓ General Atomics Urban MAGLEV Program Status	Topic 5 12 Dr. Bauer (TKT-TR) ✓ Inductive Power Supply for the Transrapid	Topic 6 100 Mr. Rockstroh (IZFP) ✓ Basis- and Inservice-Inspection of track and vehicle components of the Transrapid	Topic 7 13 Dr. Raschbichler ✓ Transrapid in the Context of Urban and Regional Transport Planning
9 h 20	Topic 1 15 Prof. Jufer (EPFL Lausanne) ✓ Global modelisation of the Swissmetro Maglev using a numerical platform	Topic 5 113 Mr. Diekmann (TKT-TR) ✓ The support magnet cladding with integrated IPS(R) pick-up coil of Transrapid vehicles	Topic 6 37 Mr. Tamagaki (JR-Central) ✓ Development of Guideway Sidewall using ultra-high strength fiber reinforced concrete	Topic 7 81 Mr. Lascher ✓ Complex optimization of parameters of Maglev-systems this basic condition of their introduction
9 h 40	Topic 1 33 Mr. Hibi ✓ Linimo's achivement during EXPO2005	Topic 5 93 Mr. Nothhaft ✓ Optimization of the Transrapid Propulsion System	Topic 6 38 Dr. Tanaka (RTRI) ✓ Electromagnetic vibration test for durability verification of ground coil	Topic 7 94 Mr. Harding (Volpe) Optimizing Maglev Propulsion System Performance: Trip Time, Energy Consumption and Environmental Impact
10 h 00	Topic 1 110 Mr. Rausch (TRI) ✓ Technology and system layout of the transrapid maglev project in Munich	Topic 5 36 Mr. Ishihara (JR-Central) ✓ The development of ground coils for superconducting Maglev	Topic 6 28 Mr. HAN Hyung Suk (KIMM) ✓ Simulation of Dynamic Interaction between Maglev and Guideway using FEM	Topic 7 106 Mr. Köhler (TRI) ✓ Transportation market study Yangtze delta
10 h 20	Coffee Break			
	<i>Chairman: Mr. Witt</i>	<i>Chairman: Mr. Hellinger</i>	<i>Chairman: Mr. Schwindt</i>	<i>Chairman: Mr. Budell</i>
11 h 00	Topic 1 129 Ms. Neises (EBA) ✓ Project approval procedure	Topic 5 116 Mr. Zhiqiang Long (NUDT) ✓ Analysis of the Reliabilities of Maglev Train power system	Topic 6 120 Dr. Bachmann (Züblin) ✓ "MSB-Fahrtweg-2010" - Der Fahrtweg für den Transrapid	Topic 7 84 Mr. Montgomery (Magplane) ✓ Magplane China Pre-Feasibility Studies
11 h 20	Topic 1 23 Dr. Neumann (UEEIV) ✓ Use of the Transrapid in Europe	Topic 5 14 Prof. Jufer (EPFL Lausanne) ✓ Contact-less energy transmission for MAGLEV	Topic 6 123 Mr. Schmitt (SSF-Ing) ✓ Primärtragwerke für die MSB-Querung anhand der Planung Los 3 MSB-Anwendungsstrecke Bayern	Topic 7 117 Mr. Borchardt (Vössing) ✓ MSB Munich (organization, coordination, information, planning / alignment / predesign / design / approval, time schedule, cost man.)
11 h 40	Topic 1 124 Prof. Godau (TU Dresden) ✓ Transrapid - increasing pull of touristic destinations	Topic 5 25 Mr. Takahashi (RTRI) ✓ Diagnosis and Evaluation technique for Superconducting Magnet and Ground coils	Topic 6 149 Prof. Dr. Grossert (GP) ✓ Planned Guideway Constructions in the Project TRANSRAPID Munich	Topic 7 60 Mr. Stephan (UFRJ) ✓ Feasibility Study of an HTS-Maglev Line at the Federal University of Rio de Janeiro
12 h 00		Topic 5 19 Dr. Iwamatsu (RTRI) ✓ Test Results of Superconducting Magnet for Simplified Ground Coils	Topic 6 131 Prof. Jehle (TU Dresden) ✓ Comparison of at-grade or relevelated guideway construction and railroad tracks	Topic 7 114 Mr. Naumann (TU Dresden) ✓ An entire comparison of Maglev and High-Speed railway system
12 h 20	Lunch Break			

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	<i>Chairman: Mr. Kruse</i>	<i>Chairman: Mr. Hoffmann</i>	<i>Chairman: Prof. Feix</i>	<i>Chairman: Mr. Hamann</i>
14 h 00	Topic 3 89 Mr. Beyer (IFW) ✓ A turnout switch for the superconductively levitated transport system SupraTrans	Topic 5 98 Mr. Remy (ENSAM) ✓ Comparison of Resonant Controllers and PI Controllers for Thrust Control of a Permanent Magnet Linear Synchronous Motor	Topic 6 139 Dr. Tielkes (DB AG) ✓ Aerodynamic aspects of Maglev systems	Topic 4 17 Mr. Otto (TÜV) ✓ Safety Assessment for the Maglev Operation Control System – Experience and Lessons Learned
14 h 20	Topic 3 90 Mr. Kühn (IFW) ✓ Driving dynamics of a linear superconducting levitation transport system using YBCO bulk material	Topic 5 55 Mr. Jun Wu (NUDT) ✓ A gap detector of linear synchronous motor in the Maglev system	Topic 6 59 Dr. Reinke (HBI) ✓ Tunnel Aerodynamics of the magnetic levitation High-Speed link in Munich – Consequences for pressure comfort, micropressure waves, traction power and pressure loads	Topic 4 30 Mr. Morishita (JR-Central) ✓ Novel Train Position Detecting System in the Yamanashi Maglev Test Line
14 h 40	Topic 3 82 Prof. Dr. Ohsaki (Uni Tokyo) ✓ Numerical analysis of elastic vibration of superconducting MAGLEV vehicles	Topic 5 156 Mr. Turki (TU BS) ✓ Contactless Inductive Power Supply	Topic 6 145 Mr. Meißner (Quick-IG) ✓ Displacement behaviour of raft foundations under cyclic impact	Topic 4 10 Dr. Egner (Telefunken) ✓ Multi Service Radio Communication for MAGLEV and Train Systems
15 h 00	Topic 3 80 Mr. Ogata (RTRI) ✓ Development of superconducting magnet with HTS current lead	Topic 5 70 Mr. Nozaki (Uni Tokyo) ✓ Equivalent circuit model with parameters depending on secondary speed for High-Speed Transport - a smart combination of classical modeling and numerical electromagnetic calculation	Topic 6 119 Dr. Zheng (TKT-TR) ✓ Tribological Optimised CFC-Gliding Elements and Ceramics-Coatings on the Gliding Strip for the Transrapid System	Topic 4 27 Mr. Kron ✓ Commissioning Operation Control Systems
15 h 20	Coffee Break			
	<i>Chairman: Mr. Nissen / Mr. Morita</i>	<i>Chairmen: Prof. Jufer / Mr. Wahl</i>	<i>Chairman: Dr. Friedrich</i>	
16 h 00	Topic 3 95 Mr. Jeter (GA) ✓ GA Urban Maglev – Stable Levitation, Propulsion and Guidance	Topic 5 101 Mr. Yaohua Li (CAS) ✓ DTC-based Position and Velocity Control for PM LSM Carrier at Low Speed Range	Topic 6 76 Mr. Schöll (Bögl) ✓ A new guideway for Transrapid The Munich girder	
16 h 20	Topic 3 77 Mr. Sakamoto (JR-Central) ✓ Magnetic Vibration Simulator for EDS Maglev	Topic 5 56 Mr. Jun Wu (NUDT) ✓ Direct Thrust Control by Direct Measurements for Gap Flux of Linear Induction Motor	Topic 6 97 Mr. Venkatesh (GA) ✓ Guideway Steel Fiber Reinforced Concrete Girder Design	
16 h 40	Topic 3 68 Mr. Tagami (MI-Tech) ✓ Examination of levitation of thin non-magnetic conductor by AC electromagnet type electro dynamic suspension	Topic 5 153 Mr. Fiske (Launchpnt) ✓ Third generation Flywheels for higher power electricity storage	Topic 6 50 Mr. LIN Ying (NMTE R&D) ✓ Analysis of electromagnetic force and vibration caused by passing Maglev Train on Guideway Switch	
17 h 00	Topic 3 1 Prof. Dr. D'Ovidio (Uni L'Aquila) ✓ Design and Experiment of "U"-shaped Guideway interacting with HTS "Runner" for Lift and Guidance Forces		Topic 6 18 Mr. Dignath (TKT-TR) ✓ Dynamic Behaviour of Guideway Switch Beams	
17 h 20				

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	<i>Chairmen: Dr. Tielkes / Ms. Mahr</i>	<i>Chairman: Dr. Cassat</i>	<i>Chairman: Dr. Jansen</i>	<i>Chairman: Mr. Krekeler</i>	<i>Chairman: Dr. Rühl</i>
9 h 00	Topic 1 107 Mr. Wackers (TRI) ✓ The Transrapid Maglev System characteristics and its Potential for International Markets	Topic 3 32 Mr. Morita (Chubu HSST) ✓ Conditions of levitation of Linimo(HSST System) during EXPO2005	Topic 4 8 Mr. Klüber (DB MB) ✓ High-speed maglev availability methodology - adapting the existing availability methodology to an automated transport system citing the example of the high-speed maglev line Munich	Topic 7 85 Prof. Dr. Fengler (TU Dresden) ✓ A EU Study for High Speed Transport in Corridor IV	Topic 2 69 Mr. Sato (MI-Tech) ✓ The one-dimensional finite element analysis technique for real-time vibration control of thin-steel-plate
	Topic 1 111 Mr. Budell (TRI) ✓ Transrapid Maglev Projects in the USA	Topic 3 11 Mr. Tum (TKT-TR) ✓ Design and development of the Transrapid TR 09	Topic 4 20 Dr. Chunguang Xu (TKT-TR) ✓ Training and Supervision of the Vehicle Maintenance	Topic 7 137 Mr. Fritz (IFB) ✓ Operating concept and system design of a high-speed link in the pan-European Corridor IV	Topic 2 54 Mr. Kozoriz (MAGNET) ✓ Super Conductive Levitation based on the Magnetic Potential Well (MPW) Phenomenon
9 h 40	Topic 157 Mr. Ferguson (US Maglev) ✓ US Maglev Coalition	Topic 3 16 Dr. Xiufei Liu (TKT-TR) ✓ Crash Safety system of the Maglev vehicle	Topic 4 6 Dr. Friedrich (DB AG) ✓ Maintenance analyses as basis for obtaining operating licence	Topic 7 40 Prof. Schach (TU Dresden) ✓ Risk evaluation of guideway construction by stochastic approaches	Topic 2 91 Mr. Suzuki (Fukushima NCT) ✓ Preliminary experimental study on new contact-free linear drive system by using diamagnetic material
	Topic 1 71 Mr. Baldi (Magline) ✓ Road to Construction-California-Nevada Interstate Maglev Project	Topic 3 144 Prof. Alberts (Uni Norfolk) ✓ On the influence of structural flexibility on feedback control system stability for EMS Maglev vehicles	Topic 4 130 Mr. Rebentisch (EBA) ✓ Investigation of accident and incidents of rail systems	Topic 7 108 Mr. Kruse (TRI) ✓ Transrapid in Great Britain - Project UK ultraspeed	Topic 2 2 Mr. Norbert C. Cheung (PolyU) ✓ A Magnetic Levitated Switched Reluctance Motor System for High- Precision Position Control Applications
10 h 20	Coffee Break				
	<i>Chairman: Prof. Grossert</i>	<i>Chairmen: Mr. Lobach / Prof. Morini</i>	<i>Chairman: Mr. Otto</i>	<i>Chairman: Mr. Brylka</i>	<i>Chairman: Prof. Schach</i>
11 h 00	Topic 1 4 Mr. Marscholek-Uecker (DB AG) ✓ Innovative stations for an innovative transport system - the "railway stations" on the high-speed maglev line between Munich Central Railway Station and Munich Airport	Topic 3 65 Mr. Ho-Kyung Sung (KIMM) ✓ A Time Delay-Based gain Scheduled Control For Electromagnetic Suspension System	Topic 4 128 Mr. Meine (EBA) ✓ The role of the safety concept within the approval process	Topic 6 45 Dr. HUANG Jin-yu (NMTE R&D) ✓ Research on the Planning & Designing of High-Speed MAGLEV Guideway	Topic 2 154 Mr. König (SRE) ✓ Development of a High-Speed Maglev Line in Switzerland
	Topic 1 138 Prof. Stephan (IFB) ✓ Availability and punctuality of the Transrapid system requirements and operating experience	Topic 3 31 Mr. Foglia (PoliMi) ✓ Control system and experimental results on a PM Maglev Test Bed	Topic 4 9 Ms. Mahr (DB MB) ✓ Safety concept for the high-speed maglev line between Munich's central railway station and its airport	Topic 6 78 Mr. Sperling (IBMB) ✓ Transrapid Guideway - Maintenance and monitoring	Topic 2 26 Mr. Plaxin (NAS) ✓ Photoelectric distributed energy supply for MAGLEV Propulsion System
11 h 40	Topic 1 133 Mr. Metzner (IABG) ✓ The Transrapid Testfacility (TVE) Practical Testing for Success in commercial use	Topic 3 86 Mr. Cassat (EPFL) ✓ Swissmetro Passive Guidance Forces of Polarized Linear Motors Combined With Levitation Actuators	Topic 4 151 Dr. Heyn (TÜV) ✓ Safety	Topic 6 47 Mr. SHAO Jun-chang (SMT) ✓ Alignment Measurement and Control of Maglev Track	Topic 2 118 Prof. Prykhodko (NAS) ✓ Computational and Wind Tunnel Experiment in High-Speed Ground Vehicle Aerodynamics
	Topic 1 127 Mr. Rebentisch (EBA) ✓ Approval process for Maglev-projects in Germany	Topic 3 61 Mr. Kehrer (Hall) ✓ Design considerations for the curving, hunting and braking performance of MAGLEV vehicle utilizing Permanent Magnet EDS Levitation System	Topic 4 134 Mr. Zudse (SAG) ✓ New operation control system product stand for the Transrapid Test Facility Emsland (TVE)	Topic 6 88 Mr. Montgomery (Magplane) ✓ Magplane Guideway and LSM Heat Transfer	Topic 2 62 Mr. Sobolewski ✓ Trimodal Transportation System
12 h 20	Lunch Break				

14 h 00

Plenum

Nat. Org. Committee; Prof. Masada

Ceremonial handover of the Maglev Conference to the USA.; closing words

List of Topics

Topic 1 MAGLEV Development, Projects and Operational Results of High Speed (Urban) Applications worldwide

Topic 2 MAGLEV - New Ideas

Topic 3 Vehicles and Levitation/Guidance

Topic 4 Safety and Operational Control

Topic 5 Propulsion, Linear Motors and Energy Supply

Topic 6 Guideway and Infrastructure

Topic 7 Economic and Planning / Feasibility - Studies