

Turkey, Istanbul, Haydarpasa Station, 15 – 17 October 2008



First UIC Global Conference
Traffic Management & Train Control Systems
16 -17 October 2008

DAY 1: 16 October 2008
Components of Modern Signalling and Train Control Systems

09:00 - 09:10	WELCOME MESSAGE from the UIC	Luc Aliadière, UIC France
09:10 - 09:20	CONFERENCE KEY NOTE	Yoshio Ishida, JR-East, Japan
09:20 - 10:50	Session A: Train Operation Systems	Chairman: Yoshio Ishida, JR-East, Japan

09:20 - 09:40	A1 Systems Overview : UIC-Asia CCS workshop results in support of signalling, train control and train management in the context of satisfaction of a core requirements for performance, safety and efficiency; TM&CCS structural components, interfaces and systematic vision on a convergent structural approach	Dr. Masayuki Matsumoto, JR-East, Japan
09:40 - 10:00;	A2 Key functionalities , needed information, sources and info-flow, - performance indicators for control; structural vision for complex tasks and migration ;	Prof. B. Stadlmann University of Applied Sciences Upper Austria
10:00 - 10:15	A3 Specific system features to apply into dedicated operation types (HS, freight & mixed): which differences in system features if dedicated on HS, classical, freight, local low density of traffic	Valerio Giovine, Trenitalia, Italy
10:15 - 10:30	A4. Major traffic management tasks in nodes - example on ICONIS system for CTC Bologna	Massimo Malavasi, ALSTOM, France
10:30 - 10:50	End session A Questions & answers	Includes key verbal interventioms (3 - 5 minutes each)

10:50 - 11:30	Coffee break	
11:30 - 13:00	Session B: Wayside systems	Chairman: Dan Otteborn, Bombardier, Sweden

11:30 - 11:50	B1:Track occupancy, detection & survey ; advanced track-based train detection systems; their suitability to be applied on different operation systems to satisfy core requirements and provide an optimized vision (maximum functionality & applicability); migration	Dr Yuji Hirao, JR-East, Japan
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11:50 - 12:10	B2: Track <> train information exchange & data transmission: survey of the systems based on the train-track interaction to realize data transmission (encoded track circuits, loops, balises, LZB...) assessment of their core functionality and performance; vision on requirements and systems evolution	Antonio Casazza, Ansaldo-STS, Italy
12:10 - 12:30	B3: Interlocking systems and vision: tasks and requirements / systematic approach on advanced systems / controlled area and controlled objects / interfaces to signalling and to traffic control (remote control); vision on evolution	Gyu Hyun Kang, KORAIL, Korea
12:30 - 13:00	End session B Questions & answers / interventions from the supply industry	Includes key verbal interventions (3 - 5)
13:00 - 14:15	Lunch	
14:15 - 15:45	Session C: On-Board systems and technology	
		Chairman: Alan Polivka, AAR, USA
14:15 - 14:35	C1: Train Control: ETCS conception / emphasis on the roles and structures of on-board / cooperation with track-side	Klaus Mindel, THALES, Germany
14:35 - 14:55	C2: Train Control: the PTC conception / on board structure / use of GNSS / which solutions for train integrity	Brian Caine - Lockheed Martin, USA
14:55 - 15:15	C3: Train Control: The D-ATC on board systems and technologies conception	Shigeto Hiraguri, RTRI, Japan
15:15 - 15:45	End session B: Questions & answers / intervention from supply industry	Includes key verbal interventions (3 - 5)
15:45 - 16:25	Coffee break	
16:25 - 18:00	Session D: Radio-communication systems	
		Chairman: Klaus Konrad, DB, Germany

16:25 - 16:45	D1: Systems Overview: tasks and requirements; generic solutions of problems for availability, capacity, integrity, interfacing, frequency management, vision from the p.v. of rail and commercial systems, migration, satellite communication	Tetsunori Hattori, JR-East, Japan
16:45 - 17:05	D2: Radio Digital Communication –transmission of safety related information: why digital / Circuit switched VS package switched / modulations and use of frequency;	Simon Wootton, Synectics, UK
17:05 - 17:30	D3: Future Trends: Telecom Technology drivers / Dedicated systems versus open market systems / Migration and satisfaction of increase capacity / limited vs full coverage / High Debit telecom – full or limited coverage / satellite communication	Martin Lehrbaum, Nortel, Germany
17:30 - 18:00	End session D: Questions and answers / intervention from supply industry	Includes key verbal interventions (3 - 5 minutes each)

19:00 - 22:00 Dinner, social event

Day 2: 17 October 2008
Commercial applications on high speed, conventional, freight and low traffic density lines
Conclusions to convergence

09:00 - 10:50 **Session E: Commercial applications on high speed and mixed traffic** **Chairman: Gerard Dalton, UIC**

09:00 - 09:20	E1: High speed and mixed traffic in Europe / ETCS	Jan Richard, SBB, Switzerland
9:20 - 09:40	E2: High speed / digital train control in in Japan / ATC > ATOS	Takashi Kawano, JR East, Japan

9:40 - 10:00	E3: PTC applications in the USA	Alan Polivka, AAR, USA
10:00 - 10:20	E4: HS signalling in China	Ruediger Brandt - SIEMENS, Germany and invitee from the MOR, China
10:20 - 10:40	End of session D. Questions and answers	Interventions from Japan, Europe, USA
10:40 - 11:20	Cofee break	
11:20 - 13:00	Session F: Applications on dedicated lines - freight and low traffic density lines	Chairman: Graham Paverd, Spoornet, Republic South Africa
11:20 - 11:40	F1: Dedicated freight line: Betuwelijn	Joop de Zwaan, ProRail, Nederland
11:40 - 12:00	F2: / ETCS regional	Poul Froesig - UIC, France
12:00 - 12:20	F3: Dedicated line: MRS Brazil	Paulo Vieira MRS, Brazil

12:20 - 12:50	End of session F Questions and answers	Includes key verbal interventions (3 - 5 minutes each);
12:50 - 14:00	Lunch	
14:00 - 16:00	Session G: Convergence towards common functionality, modularity and use of technology	Chairman: Dr. Masayuki Matsumoto - JR East, Japan
14:00 - 14:20	G1: Trends and tendencies in Europe, Africa and Middle East	George Barbu - UIC, France
14:20 - 14:40	G2: Trends and tendencies in Asia	Ikuo Watanabe, JR East, Japan
14:40 - 15:00	G3: Trends and tendencies in Americas	Alan Polivka, AAR, USA
15:00 - 15:15	G4: Railway security - a tendency. Application examples	Giovanni Bocchetti, ANSALDO-STS, Italy
15:15 - 15:55	End of session G Questions and answers	Round table discussion moderated by the chairman
15:55 - 16:05	Conclusions of the conference, adoption of a common declaration	Yoshio Ishida, JR-East, Japan
16:05 - 16:15	Closing conference, message of the UIC	Vipin Sharma, UIC, France