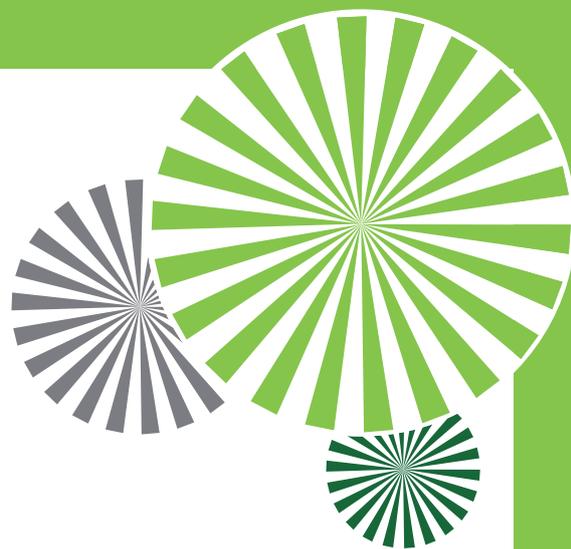


11th UIC Sustainability Conference

Railways: Mobility for a sustainable future



Book of speakers

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Speakers

TAKASHI ASO

Takashi Aso has been a manager of global environment section of Technical Research and Development dept. of West Japan Railway. He takes charge of energy conservation, CO2 reduction and climate change prevention, the problem of waste, and environmental education to the employee in his section.

He joined JR-WEST in 1990, mainly he engaged in development of the high speed railway of rolling stock. He was a director of Hiroshima Shinkansen depot for two years. He has previously worked as consultant, mainly with rolling stock for Taiwan High Speed Railway at a maximum speed of 300km/h in Japan Railway Technical Service from 2001 to 2003.



IGNACIO BARRON DE ANGOITI

Director of the Passenger, High Speed and Stations in UIC

1993 – MBA (Development of Managers) at IESE Business School, Madrid

1982 – Civil Engineer (“Caminos, Canales y Puertos”), Technical University of Catalonia, Barcelona

Experience at the International Union of Railways (UIC):

From November 2009, Director of the Passenger, High Speed and Stations Department, as well as Coordinator of Latin America Region of the International Union of Railways.

Among other functions, responsibility on the Passengers activity (Technical and Commercial Groups, TAP – European Telematic Applications, etc.), on the High Speed Division (which includes the organisation of the annual UIC’s Training on High Speed Systems and the World Congress on High Speed Rail) and the Stations Division (which includes the organisation of the Congress “Next Station”).

June 2007 – November 2009: Director of High Speed, Metre Gauge and Coordinator of Latin America Region of International Union of Railways.

1997 – June 2007: Senior Advisor in High Speed, UIC Headquarters, Paris, representing Spanish Railways.

Experience at RENFE (Spanish Railways):

1994 – 1997: Manager in major Passenger Stations Division (Madrid Region). 1991 – 1994: Operations Manager in High Speed Stations (Madrid-Atocha) 1990 – 1991: Senior Advisor for South American business Area, at the International Affairs Division 1990 – 1987: Chief of Technical Studies at the Direction of Communications. 1987 – 1988: Planning and Management Controlling Direction. 1981 – 1987: Commercial Department.



MADS BERGENDORFF

Mads Bergendorff is senior consultant and runs his own company Macroplan Consulting since 2006 specializing in technology, sustainability and innovation processes for railway transportation. He is working for the UIC in the ongoing EU project Railenergy as subproject leader for “Energy efficiency management” and as energy and process specialist. Among his clients are also CER, DB AG, the Danish railways (DSB), and the Public Transport Authority of Denmark

Mads Bergendorff graduated as Master in environmental engineering from the Technical University of Denmark (1999) and has worked for DSB (1995-2005). He was seconded to UIC from 2001 to 2005 where he worked as senior advisor for environment. He is currently studying a master in Innovation and Leadership at Copenhagen Business School.



LUCAS CALZADO ARIJA

Lucas Calzado Arija has a degree in Law and a Master's Degree in General Management from the IESE – University of Navarra.

- Since February 2010 he has been Manager of Urban and Interurban Passengers at the General Passenger Division.

- In June 2004 he was appointed Manager of Madrid Metropolitan Commuter Trains.

- Until 2003 he was Head of Business Studies and Demand Analysis at the Commercial Division of the Renfe Commuter Trains Business Unit, and was previously Fleet Management CEO for long-distance trains in Barcelona.

- He has participated as a professor in the official Master's Degree in Railway Systems at Comillas Pontifical University in its 4th and 5th editions, as well as the Master's Degree in Urban Mobility at the Rey Juan Carlos University Foundation



RÉMY CHRÉTIEN

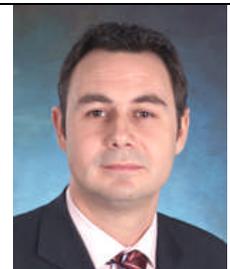
Swiss Federal Railways SBB

Rémy Chrétien is the head of SBB's Rail Environmental Center. Trained as a chemist, he holds a Ph.D. in analytical chemistry / oceanography from the University of British Columbia, Vancouver, Canada. He worked as an environmental consultant to small and medium enterprises before joining SBB in 2000 as project manager. His areas of expertise include environmental management, waste management, air pollution, hazardous substances, and climate change



HOLGER DALKMANN

Holger Dalkmann has fourteen years experience working in the sustainability and transport field. As a Programme Director at the Transport Research Laboratory in the UK he is responsible for leading key international projects in the field of climate change and sustainable transport working for organizations like ADB, World Bank, UNEP, EU, EEA and GTZ. He is the leading author for UIC's Global Position Paper on Climate Change and advising UIC for their the sustainable and climate related work.



KAMALA ERNEST

Kamala Ernest manages the Transport Programme of UNEP, which is aimed at promoting the integration of environmental and social considerations in transport-related decisions at all levels, ranging from global to personal.

Before joining UNEP, Kamala worked at PETRONAS, the national petroleum corporation of Malaysia, coordinating climate change activities within the Group. Prior to that, at the Malaysia Energy Centre, she was involved in the Malaysian Industrial Energy Efficiency Improvement Project (MIEEIP), which was co-funded by the UNDP/GEF, Government of Malaysia and the Malaysian private sector. The MIEEIP was designed to remove barriers to industrial energy efficiency through local capacity building of human resources and existing institutions that are, and can be, involved in the energy sector. She has also undertaken various energy related studies in support of the National Energy and Environment Policy of Malaysia.

Kamala has a Masters of Science degree in Computer Systems Engineering from the University Putra Malaysia, and a Bachelor of Applied Science in Applied Statistics and Operational Research from the University of Science Malaysia



CECILIO GOMEZ-COMINO BARRILERO

Born December 13th, 1960

- DEGREE IN ECONOMICS AND BUSINESS STUDIES. Complutense University of Madrid (1986).
- MASTER'S DEGREE IN BUSINESS MANAGEMENT AND MARKETING (IE BUSINESS SCHOOL) (1987)
- MASTER'S DEGREE IN HUMAN RESOURCES (IE BUSINESS SCHOOL) (1988).
- SMP – SENIOR MANAGEMENT PROGRAM (IE BUSINESS SCHOOL) (2006).

Career Development: Joined Renfe in 1979, where he has spent his entire career. Among other positions he held the post of Vigo Regional Manager in 1990 - two years later he was appointed Director of Human Resources and Organization of the Commuter Trains Business Unit, becoming manager of the Madrid Commuter Trains Division in 1996.

In 2004 he was appointed Managing Director of the Regional Trains Business Unit, and in November of that year he took up the post of Managing Director of the Commuter Trains Business Unit. In 2006 he was appointed Executive Manager of Commuter Train Services until 2007 when he took up the position of Director of Human Resources, Organization and Safety of Commuter Trains and Medium Distance.

In 2009 he was appointed Corporate Manager of Institutional Clients and Relations with ADIF, a post he occupied until February 2010 when he became AVE-Long Distance Passenger Manager, the post he currently holds.

Current post: AVE-LONG DISTANCE PASSENGER MANAGER



CONCEPCIÓN GUTIÉRREZ

Secretary of State for Transport.

Born in Jaén in 1954, Concepción Gutiérrez is a Law Graduate.

From 2000 to 2008 she was Regional Minister of Public Works and Transport of the Government of Andalusia, at whose head she prompted metropolitan transport consortium systems, as well as ambitious plans for new metropolitan railway networks (Seville, Málaga and Granada) and the public transport system in the Bay of Cádiz.

Concepción Gutiérrez is also Member of Parliament for the PSOE in the province of Jaén



JOHN M. INGLISH

Utah Transit Authority General Manager/CEO

1997 – present

John English has worked in the transportation industry for more than 35 years. With an engineering background, Mr. English began his career in 1970 as a systems planning engineer for the Utah State Highway Department. In the early 70's he began working for the Wasatch Front Regional council on the early initiatives that formed today's UTA. In 1977 he became the director of Transit Development for UTA and In August 1997, the Utah Transit Authority (UTA) Board of Trustees appointed John English as the general manager for the Authority. Under his leadership, UTA has garnered national and worldwide recognition for its transportation systems. (to be cont'd...)



Accomplishments during his tenure as UTA general manager include:

- Funding and construction of the \$312.5 million Sandy to Salt Lake TRAX light rail line, completing the 15-mile TRAX line one-year ahead of schedule and under budget as well as the \$118.5 million University TRAX light rail line connecting downtown Salt Lake City and the University of Utah in time for the 2002 Winter Olympics.
- Gaining the public's trust by successfully going to the voters for increased funding to first build the region's long range transportation plan and then to expedite that plan. Recently voters in Salt Lake and Utah Counties overwhelmingly passed sales tax referendums to expedite the building of an additional 70 miles of commuter and light rail.
- Over saw the negotiation for and purchase of the largest railroad corridor land acquisition by a transit agency in the United States – 175 miles of Union Pacific Railroad Corridor cutting through the heart of the Wasatch Front urban area.

Mr. English is internationally recognized for his transit expertise and his ability to make transit projects a reality. He also sits on the Board of Governors for the Salt Lake Chamber of Commerce and has chaired many committees for the American Public Transportation Association, recently completing a 3 year term on the Executive Board of Directors.

He is a member of the Board of Directors of the University of Denver Intermodal Transportation Institute and the Executive Board of The Intelligent Transportation Society of America. Several years ago he became the U.S. representative on the Policy Board of the UITP, the international public transit association and is the Chair of the International Sustainability Commission of that association. UTA is one of only a handful of U.S. signatories to the International Charter on Transportation Sustainability along with over 150 international transit organizations

YOSHIO ISHIDA

Vice-Chairman, East Japan Railway Company

Chairman of UIC

Born, May 24, 1943

Apr. 1967	Entered Japanese National Railways (JNR)
Apr. 1987	General Manager of Train Operating Division, Tokyo Railway Operation Dept., East Japan Railway Company
Feb. 1989	General Manager of Transport Safety Dept.
Jun. 1991	General Manager of Transport & Rolling Stock Dept.
Jun. 1992	Director of Takasaki Branch Office
Jun. 1994	Director of Transport & Rolling Stock Dept.
Jun. 1997	Executive Director of Tokyo Branch Office
Jun. 2000	Executive Vice-President
Jun. 2004	Vice-Chairman



DR. PEDER JENSEN

Dr. Peder Jensen holds the post as Acting Programme Manager for Air and Climate Change at the European Environment Agency (EEA) in Copenhagen, Denmark.

EEA is part of the EU family of institutions responsible for assessments of the state of the environment in Europe, provision of sound data regarding issues such as greenhouse gas emissions, air quality, noise, etc.

Dr. Jensen joined the Agency in 2003 as project manager for transport studies. Before joining EEA he worked for the European Commission for three years in the field of transport fuels policy. Prior to that he was associate professor at the Technical University of Denmark in the area of transport telematics



DOMINGO JIMÉNEZ BELTRÁN

Born in Zaragoza, Spain, 2 April 1944

University Studies: Industrial Engineer: High Technical School of Industrial Engineers, Polytechnic University, Madrid, 1967

Actual : Consulting engineer. Sustainability and Environment.
Adviser of the Spanish Observatory for Sustainability

Recent Posts

- Apr. 2005 – Dec. 2005 Director- Spanish Observatory for Sustainability
- May. 2004-Apr. 2005 Adviser- Economic Bureau of the Spanish Prime Minister
- Feb. 2003 -Apr. 2004 Consulting Engineer. Env. and Sustainable Development June 2002
- Feb. 2003 Adviser to the Director General, Health and Consumer protection Directorate General, European Commission (Brussels)
- June 1994-May 2002 (First)Executive Director of the European Environment Agency (Copenhagen)
- 1991-1994 Director-General for Environmental Policy: Secretariat of State for Environment and Housing, Ministry of Public Works, Transport and Environment (Spain).
- 1987-1991 Head of Division: "Health, Physical Safety and Quality"; Consumers Policy Service", CPS, European Commission (Brussels).
- 1986-1987 Attaché for Environment and Public Works, Permanent Representation of Spain to the European Union (Brussels).
- 1985-1986 Deputy Director-General for International and European Union Relations, Ministry of Public Works and Urban Planning (Madrid).
- 1983-1985 Executive Adviser to the Minister for Public Works and Urban Planning (Madrid).

Professional experience:

Professional experience, mostly in the field of environmental protection , natural resources management and Sustainable Development, both in private enterprises (production, manufacturing, engineering and consulting) and public Administration at Regional, National and Community level (managerial positions, organisation and direction of important departments, programming, budgetary control, development of policies and legal instruments character, international negotiations and relations, as well as development of information systems).

Author and editor of several publications and articles, professor of specialised courses and active lecturer on these matters.

Recent Awards:

- Twelve Stars for The Environment' (EBE-Brussels.Oct 2002)
- Sustainable Development Award' (FED-Zaragoza. Sep 2002)
- National Congress for Environment Award' (Madrid.Nov 2002)
- ISR Award 2004.
- New Culture of the Water 2006 Individual award.
- Spanish National Award for the Environment 2007



LUIS M. JIMENEZ HERRERO

Doctor en Ciencias Económicas y Empresariales e Ingeniero Técnico Aeronáutico. Ha sido Asesor ejecutivo de Medio Ambiente del Ministerio de Obras Públicas, Transportes y Medio Ambiente. Ha colaborado con PricewaterhouseCoopers como Director de la División de Consultoría Medioambiental y de Sostenibilidad, y ha ejercido funciones de consultoría profesional como Director de la firma "Asesores de Medio Ambiente y Desarrollo Sostenible", realizando varios proyectos sobre Estrategias de Desarrollo Sostenible regional y Local (Agendas 21 locales) y Turismo Sostenible. Es profesor de Economía del Medio Ambiente y Desarrollo y de Desarrollo sostenible y Economía ecológica en la UCM. Es autor de numerosas publicaciones y varios libros sobre la materia. Actualmente es Director Ejecutivo del Observatorio de la Sostenibilidad en España (OSE), desde donde ha dirigido los Informes anuales de *Sostenibilidad en España 2005, 2006, 2007, 2008 y 2009*. Igualmente ha dirigido los Informes temáticos sobre *Cambios de Ocupación del Suelo en España: implicaciones para la Sostenibilidad (2006)*; *Calidad del aire en las ciudades. Clave de sostenibilidad urbana (2007)*; *Agua y Sostenibilidad: Funcionalidad de las cuencas (2008)*; *Sostenibilidad local: Una aproximación urbana y rural (2008)*; *Patrimonio Natural, Cultural y Paisajístico. Claves de Sostenibilidad Territorial (2009)*. Como conferenciante viene participando asiduamente en numerosos Congresos, Jornadas, Cursos y Seminarios, teniendo asimismo a su cargo la organización del *Foro Permanente de la Sostenibilidad* como mecanismo de debate social continuado con el objetivo de facilitar la difusión del nuevo paradigma del desarrollo sostenible



JOSE ANTONIO JIMENEZ REDONDO

- Ph. Dr. Engineer, Polytechnic University of Madrid
- MBA, IESE, University of Navarra
- The thesis theme for getting the Ph. Dr. title was centred on computer-aided design of power-electronic drives. New computer models of power diodes and thyristors were developed. The thesis was graded "Summa Cum Laude".

- Products Design Director of Renfe, from January 2010. The complete responsibility is the managing of the technical projects of all the Rolling Stock for Renfe: high speed (AVE) and long distance trains (including the variable gauge trains), regional and commuter trains and finally wagons for freights.

- Rolling Stock and Technological Innovation Director for High Speed and Long Distance Services of Renfe, during 8 years. The actual responsibility is the managing of the technical projects and the maintenance of the high speed (AVE) and long distance trains, including the variable gauge trains.

The most important responsibility was the launching of the commercial service of all the new AVE-high speed trains, applying the modern ERTMS/ETCS European signalling systems. These trains use several technical criteria that are being applied in some of the existing high speed systems in Europe.

Achievements: On schedule launching of all the high speed services in Spain after the Madrid-Seville line (Madrid-Barcelona, Madrid-Málaga, Madrid-Valladolid).

- Maintenance Director in the Renfe Maintenance Organization during 8 years. The responsibility during this period was the managing of the maintenance activities (first and second level, including overhauls), of the whole rolling stock with Iberian gauge (electric and diesel locomotives, EMU and DMU, and passenger cars – all of them for commuter, regional and long distance services).

Achievements:

Improvements of the EBITDA through rightsizing of the Organization, costs reductions and significant improvements on reliability and availability of the train fleets. Also there was realized the overhaul of several types of vehicles, some of them were exported abroad.

- Engineering Manager of AVE (Renfe high speed department), during 6 years. The responsibility in this position was the managing of the technical project of the high speed trains for the Madrid-Seville line.

Main achievement: On schedule launching of the first high speed service in Spain (Madrid-Seville line).



ZOLTÁN KAZATSAY

Deputy Director-General
Directorate-General Mobility and Transport, European Commission

Since 2004, Zoltán Kazatsay has been working as Deputy Director-General of DG MOVE (former DG TREN) coordinating transport activities for the European Commission. Prior to this, he worked for the Hungarian Ministry of Transport, Communications and Water Management where he served in different posts from 1989. In 1997 he was appointed to the post of Deputy State Secretary to be responsible for all transport policy issues and related investments. In this capacity he was in charge of the EU-Hungarian transport related accession negotiations, supervising the use of the pre-accession funds (PHARE, ISPA) as well as the Cohesion Fund project preparations.

Mr Kazatsay is graduated from the Technical University of Budapest as a civil engineer in 1978, and he has been decorated with the Hungarian "Légion d'Honneur".



DIPL.-ING. JOACHIM KETTNER

Head of Environmental Affairs, DB Environmental Centre Deutsche Bahn AG
Born in Delitzsch on 30.09.1951

"Abitur" [German school-leaving exams and university qualification] 1970
Completion of vocational training as vehicle fitter 1970;
Studies of Rail Vehicle Engineering at the Dresden University for Transport
- 1972 - 1976 and graduation as "Dipl.-Ing. for Rail Vehicle Engineering"
Postgraduate studies in labour and environment protection 1980 – 1982
- 1976 to 1984 various activities and leadership functions in the area of occupational safety, fire protection, and technical safety in the Dresden Regional Organisation of the Deutsche Reichsbahn (DR),
- 1985 to 1993 various leadership functions in the area of environment, labour and fire protection at the DR Headquarters, and leadership of the DR Technical Monitoring Organisation ("Railway MOT"),
- 1994 – 10 / 2000 Head of Environment Management at the Railway Environment Centre of Deutsche Bahn AG,
Since 01.11.2000, Sector Manager and Head of Environmental Affairs, DB Environmental Centre in the Division Technology, Integrated System Rail and Services of Deutsche Bahn AG in Berlin.

Other positions

- President of the UIC platform Environment, Energy & Sustainability and project manager of the UIC action programme Noise Reduction Freight Traffic
- Member of the Environment Committee in the German Association of Chambers of Industry and Commerce (DIHK)
- Member of the Steering Committee of "econsense" - Forum for Sustained Development of the German Economy



ANTONIO LANCHARES ASENSIO

- Civil Engineering (ETSICCP. Madrid Polytechnic University). 1982 Specialty: Transport.
- Diploma in Business Management from the Institute of Company Directors
- Consultant at companies linked to the transport sector until joining Renfe as track renewal specialist (1982-1983).
- At Renfe he has held various positions in infrastructure maintenance, traffic control and traffic safety.
- Currently holds the position of Traffic Safety Manager.



JAE-YOUNG LEE

Jae-Young Lee finished her PhD in 2005 with a major in environmental engineering based on chemical and biomolecular engineering. Since 2005, she is working as a senior researcher at Korea Railroad Research Institute (KRRI). She has performed several projects mainly about GHG reduction and the remediation of contaminated soil in Korean railroad.



ANDREAS HÆGSTAD

NSB

Andreas Hægstad obtained a Master's degree from the Norwegian University of Science and Technology in 2008 where he wrote his master thesis on the topics of performance measurement and quality management at the department for Production and Quality Engineering.

Hægstad is currently employed as an adviser in the passenger train operator NSB. He has central position in NSBs energy savings project where energy management, performance measurement, project management and training programs for onboard personnel are amongst his responsibilities. He also currently holds the record for lowest energy consumption on NSBs train simulator



JEAN-PIERRE LOUBINOUX

Director General of the International Union of Railways

Jean-Pierre Loubinoux, 53 years old, graduate from Ecole Centrale of Paris, was at the Economic Expansion Observatory in Hong-Kong (1977-1978) before joining the French railway company SNCF in 1978.

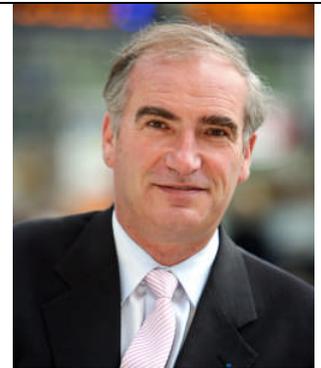
He held in the SNCF various responsibilities:

- Train Operations Executive, Marketing Manager, SNCF Freight Executive branch (1980-1982)
- Director of SNCF Sales branch for North America (1982-1986), Director of On-board SNCF long-distance services (1986-1988),
- Chief executive French Railways Ltd UK (1988-1995),
- Director of Coal-Steel Business Unit, SNCF Freight (1995-1999),
- Director HR, Data Processing and Finance, SNCF Freight (1999-2000),
- Chief Executive SNCF Freight International (2001)
- from 2001 Chairman and CEO of SNCF International and Director of International Development at SNCF.

Jean-Pierre Loubinoux was appointed Director General of the International Union of Railways on 31 March 2009.

In addition, Jean-Pierre Loubinoux is holding responsibilities in a large number of associations or institutions:

- President of AFFI (the French association of railway engineers and managers),
- Vice President of Ecole Centrale association,
- Advisor for the French Foreign trade and President of the Transport Committee,
- President of Medef International France-Argentina committee.



DR. MATTHIAS MATHER

Dr. Matthias Mather, born 1952, studied Chemical Engineering at the TU Munich, worked 12 years in the chemical and pharmaceutical industry.

Head of Environment Management of Deutsche Bahn AG with focus on energy efficiency and climate protection, noise mitigation, waste and pollution management, protection of nature, hygiene and radiation protection, the environmental management system, auditing and sustainability management.

Speaker of UIC Network Noise.



JAN VETLE MOEN

NSB

Jan Vetle Moen obtained a Master's degree from the Norwegian University of Science and Technology in 2006 where he wrote his master thesis on the topic "train energy use – measurement, evaluation and learning" at the department for Production and Quality Engineering.

Moen holds the position as energy adviser in NSB. His areas of responsibility include energy control, energy reporting and he has a central position in the progress of NSBs energy saving project. He has been involved and responsibility for the development and implementation of energy efficiency driving technique program, and development of Enka (energy management system).



VICTOR MORLÁN

Secretary of State for Planning and Infrastructure.

Born in Huesca in 1947, Victor Morlán is a lawyer and official of the State Civil Administration.

A Member of Parliament for the PSOE since 1986, Victor Morlán has held various positions of public responsibility in the province of Huesca and was Secretary of State for Infrastructure from 2004 to 2008 before taking up his current duties.



DIPL.-ING. ULRICH OSTERMAYER

- high school diploma 1986 ;
- studies of 'Technical Protection of the Environment' at Technical University Berlin; main focus on air pollution control, water purification, environmental chemistry and analytics, land reclamation ; graduation as Dipl.-Ing. for 'Technical Protection of the Environment' 1996

since 1997 in different positions at at DB Environmental Centre, Deutsche Bahn AG, responsible for:

- Programme coordination of activities of UIC Platform Environment, Energy and Sustainable Mobility
- Secretary of UIC core group environment
- Speaker of "Ecological Transport Information Tool – Worldwide (EcoTransIT World)": Eco-calculator to model environmental impact of logistic services with all transport modes, globally
- Development of EcoPassenger to compare environmental performance of individual trips through Europe
- Development of an integrated climate protection and energy strategy endorsed by the top management in 2009

Management of several other strategic projects on different issues



PETRA PERES

DB Schenker Rail

Since January 2005, Petra Peres has been working for DB Schenker Rail, the rail affiliate of Deutsche Bahn. In September 2009 she took over the management of the department 'Sales Policy' within the Marketing division. Therefore is responsible for the principles of Marketing for DB Schenker Rail, Europe's largest rail freight operator. The 37 year old Peres holds a diploma in Marketing and Communication and the stages of her career have included various logistics and service companies with an international focus. Coming from the sales side, she considers the 'green factor' especially in the BtoB-market, as a critical success factor for the future.



LUIS CAYO PÉREZ BUENO

Born in Calasparra, Murcia, 1967

Luis Cayo Pérez Bueno is the President of the Spanish Committee of Representatives of People with Disabilities (CERMI). He has studied Law, specializing in moral and legal philosophy. Master in Business Administration from the Escuela Libre de Derecho y Economía. Since 1994 he has worked in the social sector of disability. He is Editor of the newspaper *cermi.es*, *el periódico de la discapacidad*, Director of the collections *cermi.es*, *Abyectos*, *Telefónica Accesible*, *Convención ONU* and *Barclays Igualdad y Diversidad*. Vice President of the National Disability Council and Member of the Royal Board on Disability and the State Council of NGOs for Social Action.

He is also president of the Law and Disability Foundation and trustee of the ONCE Foundation.

Writer, translator and poet, he has published several books, studies and translations of both literary creation and about social reality and the disability movement.

Featuring amongst his works are:

El desmantelamiento de la discapacidad y otros escritos vacilantes (The dismantling of disability and other hesitant writings) published by El Cobre Ediciones. He has co-directed the collective work *Tratado sobre Discapacidad* (Disability Treaty), published by Thomson-Aranzadi in 2007, and has, for the same publisher, directed the monograph *Hacia un Derecho de la Discapacidad* (Towards a Disability Law), published in November 2009. In that year he also published the study *La discapacidad en el Sistema de Seguridad Social. Propuestas de mejora* (Disability in the Social Security System. Suggestions for improvement). His latest book is *Discapacidad, Derecho y Políticas de Inclusión* (Disability, Law and Integration Policies, February 2010). 2007 Gold Master Award from the Senior Management Forum.

In 2008, he was awarded the Distinguished Cross of the Order of St. Raymond of Penafort, for merit in Law and Justice, by the Ministry of Justice. The newspaper El MUNDO.es has included him in the list of the 500 most influential Spaniards in 2010, in the field of "alternative power".



TERESA RIBERA RODRÍGUEZ

Secretary of Estate for Climate Change

Teresa RIBERA RODRÍGUEZ held from 2004 to 2008 the position of Director of the Spanish Climate Change Bureau.

She obtained her degree in Law by the Complutense University in Madrid, in 1992, and, later on, she became diplomat in Constitutional and Public Law and Political Sciences by the Centro de Estudios Constitucionales.



MARGRETHE SAGEVIK

Sustainable development senior advisor in the International Union of Railways (UIC).

Since her arrival in UIC in 2003 she has been involved in several activities and projects with focus on how to improve the sustainability performance of the rail sector – and in promoting rail as a part of the solution to combat climate change and achieve a sustainable development towards among others United Nations Climate Change conferences. She is the Chair of the UIC Sustainable Mobility Network.

Educated as an environmental economist in 1999, Margrethe has been working in the rail sector for more than 10 years. Before arriving at UIC, she worked in the environment departments of both the Danish Railways (DSB) and the Norwegian Railways (NSB). Margrethe is seconded from NSB



OLIVER SELLNICK

Director Freight, UIC

Holds business degrees from McGill University / Montreal, INSEAD / Fontainebleau and European Business School, Oestrich-Winkel (close to Frankfurt).

- Responsible since 2005 for Freight at UIC, the worldwide railway association with over 200 members in Paris. Projects include e.g. the development the Xrail wagonload alliance and the Master Plan 2015 for Combined Traffic in Europe.
- Managed the international long-distance business of Deutsche Bahn AG from 2002 onwards, including new projects like the Aleo high speed cooperation between Frankfurt/Stuttgart and Paris, and the ICE International between Frankfurt and Brussels/Amsterdam.
- Over ten years of experience in the airline industry with Lufthansa German Airlines: Major assignments included strategy development, alliance management, low-cost projects, passenger marketing in the US, key account management for cargo and e-business.
- Started career with Dresdner Bank in banking.



HENNING SCHWARZ

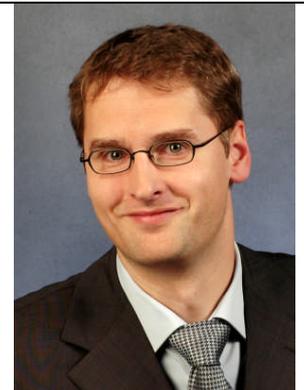
Henning Schwarz is Head of Unit Sustainable Development and responsible for the coordination of UIC's environment and sustainability activities since November 2008.

He started his work at UIC as Environmental Advisor in 2007, being responsible for the coordination and communication of activities in the fields of Energy (traction and stationary energy consumption) and Emissions.

Henning Schwarz has profound knowledge and experience in project management and coordination of international environmental rail projects.

From 1999 to 2007 he worked for the Environmental Centre of Deutsche Bahn, in the departments of resource efficiency, environmental management and sustainability.

Henning Schwarz graduated with a Master's Degree (Diplom) in Environmental Engineering at the Technical University of Berlin in 1999. He is married and has one son



TEOFILO SERRANO BELTRAN

Born in Tudela, 1950

Teófilo Serrano Beltrán ingeniero de Caminos, Canales y Puertos y Presidente de Renfe-Operadora desde mayo de 2009.

Casado y con dos hijos, Serrano ocupó los cargos de Consejero Delegado del ente público de Gestión de Infraestructuras de Andalucía y Director Gerente de Ferrocarriles de la Junta de Andalucía. Desde 2008 desarrollaba su labor profesional como Consejero de Trabajo e Inmigración de la Embajada de España en el Reino Unido.

Antes, Teófilo Serrano fue director gerente de Transportes Urbanos de Sevilla, además de director del Gabinete Técnico del Ministerio de Trabajo y Seguridad Social, Secretario de Estado para la Administración Pública y Director General del Instituto Geográfico Nacional. En 1991 fue elegido senador por el PSOE por la Comunidad de Madrid



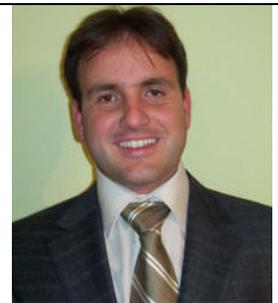
VASIL TOMOV

NRIC

Vasil Tomov has master degree on Ecology and Environmental protection, working for the Bulgarian National Railway Infrastructure Company.

Starts his work within the company in the Strategy development and investment policy Department. In 2006 becomes head of The Regional environmental Inspectorate – Region Sofia. Now he is Senior Environmental Expert in the NRIC's Ecology Inspectorate.

His work within the company includes environmental management and environmental impact assessment, air- water- and soil pollution, hazardous substances and climate change



DR. KLAUS VESTNER

Head of environmental management passenger transport, Deutsche Bahn

Dr. Klaus Vestner has been working in different positions for Deutsche Bahn AG since 1998. Between 1999 and 2001 he worked as project manager and showed that energy-efficient driving is a very useful approach for the environment and for the reduction of costs.

Afterwards he worked for the business development unit and in the marketing department for regional train transport. Since 2007 he is head of environmental management passenger transport and head of quality management and continuous improvement.

Klaus Vestner studied business administration at the University of Bayreuth, Germany. His research interests are intermodal competition and related regulation. Klaus Vestner finished his dissertation "Non-discriminatory regulation for long-distance passenger traffic – the basis for a more environmentally friendly transport system" in 2004 and received his Phd.



ING. G.K. VAN DER WAL

Manager Procurement at ProRail

After the study Civil Engineering Van der Wal worked for 6 years at DHV Consultants in The Netherlands on road-, harbor-, and irrigation projects in various countries.

Since 1987 he worked for the Netherlands Railways as project manager and manager of the planning and control department of the engineering department.

Since 1995 Van der Wal is manager of the procurement department of ProRail. The purchasing volume is about € 2 billion a year



DR. J.S. VAN DE GRIENDT

-General Manager Environmental and Sustainable Affairs for Bouwfonds Property Development and MAB Development, (both part of Rabo Real Estate Group)

- As General Manager Environmental and Sustainable Affairs, Bas van de Griendt is responsible for the sustainability agenda of Bouwfonds Property Development. Bas joined Bouwfonds in 2005. Previously he worked over 15 years as an environmental consultant for the real estate market. Bas published several books and many articles on valuing and transactions of polluted property and redeveloping e.g. brownfields. He is a frequent speaker on symposia. In 2007 he did a PhD on a residential impact study concerning the external effects of soil contamination on the housing market in the Netherlands. His thesis 'Ground for Concern' was nominated for 'Most Appealing Dissertation' (MAD Award) in 2008.



Bouwfonds Property Development is active as an all-round developer of residential areas and small-scale mixed-use projects. Bouwfonds Property Development is one of the most successful developers in Europe. MAB Development is a leading European developer of commercial real estate and mixed-use projects. Its vision and daring have been the key to developing leading projects for almost forty years now

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Moderators

WILLY BONTINCK

Electromechanical engineer (master degree), working for the Belgian railway sector since 1980, first in different infrastructure departments, since 1998 head of the environmental division, responsible for the coordination of all environmental affairs of the SNCB Group. Railway's Environment Coordinator since the start of the UIC environmental program. Member of the environmental core group UIC, speaker of the emission expert group UIC, member of the energy and CO2 emission expert group UIC



JOSÉ VICENTE COLOMER FERRANDIZ

- Doctor of Civil Engineering
- Professor of Transport at the Polytechnic University of Valencia (Spain)
- During the period 1976-1986 he carried out his professional activity at RENFE, in design and management of railway works.
Author of numerous works, articles, papers and other publications related to the railway in both its technical aspects and sustainability



DIEGO LÓPEZ GARRIDO

Born 8th September 1947

POLITICAL POSTS

- Secretary of State for the European Union (April 2008)
- Member of the Congress of Deputies in the 5th, 6th, 7th and 8th Legislatures
- Spokesperson of the Socialist Party at the Constitutional Commission (7th Legislature)
- Secretary-General of the Socialist Parliamentary Group (7th Legislature) (13th April 2004)
- Spokesperson of the Socialist Parliamentary Group (7th Legislature) (25th April 2006)
- Member of the Federal Executive Commission & the Federal Committee, both of the Spanish Socialist Party (PSOE)
- Member of the Convention entrusted with drawing up a European Constitution, representing the Spanish Cortes (2002-2003)

ACADEMIC QUALIFICATIONS

- Bachelor of Laws- Complutense University of Madrid (1969)
- Bachelor of Science (Economics) - ICADE (Catholic Institute for Business Administration) (1970)
- Ph. D in Law- Autonomous University of Madrid (1981)

COMPETITIVE EXAMINATIONS PASSED

- Lawyer of the Spanish Cortes (1975).
- Professor of Constitutional Law
- (University of Castile-La Mancha) (1990).

STUDIES ABROAD

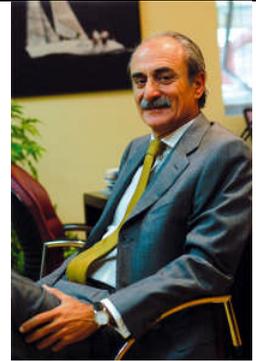
- Diploma in International Law and Comparative Human Rights Law. International Institute of Human Rights. René Cassin Foundation, Strasbourg, 1973.
- Diploma in Humanitarian Law and the Law of War. International Institute of Human Rights, Strasbourg, 1973.
- Participation in the First Meeting of the International Centre for the training and re-training of Human Rights workers. René Cassin Foundation, UNESCO, Paris, 1973.
- Stagiaire at the European Court for Human Rights. Strasbourg, July- August 1973.



JUAN LUIS MARTIN CUESTA

Licenciado en Ciencias Económicas y Empresariales (Universidad Autónoma de Madrid), master ESADE y diplomado en Alta Dirección de Empresas por el IESE.

- Finalizados sus estudios trabajó durante un año en la empresa Coopers & Lybrand.
- **Ingresó en Renfe en julio de 1974**, en el Gabinete de Planificación Estratégica. En 1983 fue nombrado Director de Presupuestos Corporativos y Control de Gestión. **Desde finales de 1993 hasta junio de 2004 ocupó el cargo de Director Gerente de Alta Velocidad (AVE)**. Consejero de diferentes empresas del Grupo Renfe.
- El 1 de agosto de 2004 fue nombrado Director Corporativo de Gestión de Calidad y **desde el 1 de febrero de 2005, Director de Calidad y Desarrollo Sostenible de Renfe Operadora**.
- En febrero de 2005 fue nombrado **Presidente del Comité Ejecutivo de la Fundación Iberoamericana para la Gestión de la Calidad (FUNDIBEQ)**.
- **Vicepresidente del Club Excelencia en Gestión, Secretario General del Foro de Empresas Ferroviarias por la Sostenibilidad y Miembro de las Juntas Directivas de AENOR y de la Asociación Española de la Calidad.**



IAN PAPWORTH

Ian's career was honed in the automotive component supply sector, where for 15 plus years he held a number of director positions dealing with a rapidly changing sector, embracing elements such as the need for customer orientation and continuous improvement, to achieve competitive advantage.

For the last 10 years he has acted as an independent consultant/interim manager primarily within the Railway sector. His positions have included Fleet Director roles for UK Train Operating Companies and more recently as Engineering Director at ATOC.

In this latter position he led a small team of engineering professionals who supported the UK TOCs in areas such as, supply chain, reliability of rolling stock, environmental /sustainability tactically such as, best practise identification and sharing.



EDWIN VERHEIJEN

Edwin Verheijen (1969) studied physics and received a Ph.D in acoustics (TU Delft, 1998).

- He joined NS (Dutch railways), where he was involved in several national and European projects regarding noise and railways (EuroSabot, Silent Track, Silent Freight, MetaRail, STAIRRS, Harmonoise, Imagine).

- Since 2005 he is working for dBvision, a leading Dutch consultancy company for development of noise policy and legislation. Their main customers are the national government and infra management organisations. During the past ten years, he and his colleagues at dBvision played a substantial role in the technical preparations for the forthcoming major revision of the Dutch noise legislation (noise emission ceilings for roads and railways).



JERZY WISNIEWSKI

Mr. Jerzy Wisniewski, 58, Polish, engineer of mechanics (specialization: rail transport), MSC of transport economics. Recently: member of the Board of Directors at International Union of Railways (UIC) - Director for Fundamental Values Department responsible for cooperation and supporting the UIC core activity such as railway infrastructure, passengers and freight transportation - paying special attention to the transversal issues like: sustainable development, safety, security, expertise development and research coordination. Seconded to the UIC from Polish Railways where fulfilled managerial duties for heading the office for international relations. Russian Transport Academy member - to date. Railway expert to the NATO HQ within Civil Emergency Planning Board for Inland Strategic Transport - civil aspects relevant to NATO planning and operations include crisis management for railway infrastructure (2006-2009). In 1999-2005 worked already for the UIC being responsible for pan-European railway system integration - technical, operational, legal harmonization within Eastern and Central European Countries – close cooperation with related organizations like CER, OSJD, CIT, ECE UN, and ECMT.



CHRISTIAN WOLMAR

Christian Wolmar is a writer and broadcaster specialising in transport and has become one of the UK's leading commentators on transport matters.

. He contributes regularly to a number of publications including the *Evening Standard*, *New Statesman*, *The Times*, and *The Independent on Sunday*. He writes regular columns for both *Rail* magazine and *Transport Times*. He broadcasts frequently on radio and TV and is a regular pundit on the national news bulletins of the BBC, ITN, and Sky. He also works as a consultant, advising companies on the rail industry. He is a member of the Cycling England, the government agency which aims to boost cycle use.

His books include *Stagecoach*, (1999) an account of the firm which rose from nothing to the FTSE 100 in 20 years, two books on the London Underground, *Down The Tube*, an analysis of the Public Private Partnership for London Underground and *The Subterranean Railway*, a social history of the Tube published in 2004. *On the wrong line, how ideology and incompetence wrecked Britain's railways*, a critique of rail privatisation, was published in 2006 and, *Fire & Steam*, a history of Britain's railways was published in 2007 and *Blood, Iron & Gold*, how the railways changed the world, in 2009. His latest book, *Engines of War*, will be published in September. See www.christianwolmar.co.uk.

He is a member of the board of trustees of the Railway Children, a charity which helps homeless and destitute children at stations home and abroad



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Posters presenters

WILLEM BÖTTGER

Willem Böttger works for 6 years now at NPSP Compositen as general director. NPSP Compositen is an enthusiastic, fast growing company that manufactures products made of fiber reinforced composites and is specialized in biobased fibre reinforced thermosetting composites.

After his study experimental physics at the University of Amsterdam, he worked for two year at TNO Building and Construction, a governmental research centre, on the subject of passive solar energy. Hereafter he was a consultant at Ecofys, on the subject of photovoltaic solar energy, followed by his work as a senior strategist at energy utility company Essent on the subjects of knowledge management, innovation and renewable energy



HUB MM COX

Hub MM Cox has got a degree in Industrial Management (engineer) on the University of Technology in Eindhoven after he had finished his study (School of Applied Technologies) on Automotive Engineering.

- Since 2000 he is working at Novem, later on SenterNovem (which name was changed in January 2010 into NL Agency, Environment. NL Agency is part of the Dutch Ministry of Economic Affairs
- Here he is a (medior) programme advisor in the Long Term Agreement (LTA)-programme since 2001, in particular involved in the LTA with the Dutch Railways. Between 2001 and 2010 the partners, within this LTA, managed to improve the energy efficiency with more than 20% in regard to 1997.

TRAINER

Between 2006 and 2009 he was co-projectleader in the TRAINER project together with Peter Wilbers; TRAINER is an EU project which developed training programmes for energy efficient driving for train drivers. The project delivered a Universal Manual (in 5 languages) and some instruction films



PALOMA CUCALA

Paloma Cucala is a tenured assistant professor of the Comillas' Engineering School, ICAI and a research fellow in the Institute for Research in Technology. She is the coordinator of the Rail Systems Research Group of the Institute and the coordinator of Comillas' Master's Degree in Rail Systems



HAMIDREZA AHADY DOLATSARA

Hamidreza Ahady Dolatsara's B.S is Railway Operation & Management Engineering and Studied at IUST "Iran University of Science & Tech" one of best universities in Iran.

He Studied at IUST "Iran University of Science & Tech" The only school that offers this major in the Middle-East. He is proud of being an Iranian pioneer in the RFID. During his study and work, I caught some citations that are:

- 1- He has a thesis work that is accepted in *First Festival of Citation for Superior Thesis Works* "in IUST" his thesis work is simulation & optimization of lines 1&6 of Tehran – Metro "for dispatch of trains" .
- 2- He achieved a citation form Tehran-Metro authorities because of my simulation project in lines of 6&1 "Authorities of Metro gave him an official letter like a recommendation "
- 3- Citation from Eldad Tajhiz Inc. for His job "as a project manager" Management, He done them for his company



Hamidreza Ahady Dolatsara (cont'd)

At present, He works on some booklets & a book to introduce usage of RFID in Intelligent Hamidreza Ahady Dolatsara's B.S is Railway Operation & Management Engineering and Studied at IUST "Iran University of Science & Tech" one of best universities in Iran.

He Studied at IUST "Iran University of Science & Tech" The only school that offers this major in the Middle-East. He is proud of being an Iranian pioneer in the RFID. During his study and work, I caught some citations.

About His present job: As a project Manager in a RFID company, He introduced usage of this technology in His country, but there are lots of heavy walls

At present, He works on some booklets & a book to introduce usage of RFID in Intelligent Management, He done them for his company.

He has published papers in Simulation, RFID, CRM and sustainability related to Transportation areas.

Professor Ghoseiri considered him for Teaching Assistant of simulation and professor Ahadi considered me for Teaching assistant of Cargo loading and unloading systems.

About His research projects, he did one of the most important and successful simulation projects " as His Thesis-Work" for Tehran Metro Co. "Tehran-Metro Co. that is pioneer of metro in the Middle-East " and he achieved some citations about.

PAOLO CONTESTABILE

Paolo Contestabile, born Rome 1977, started his career at UIC in summer 2008 following completion of his studies of M.Sc. Environmental Engineering from the University "Sapienza", Rome (Italy) and two year working experience as a consultant in the Health&Safety sector.

Since 2009 he has been working at UIC as Junior Project Manager in two projects co-funded by the European Commission under the 6th and 7th Framework Programme.

Within the *InfraguidER* coordinated action he ensures effective results dissemination and facilitates knowledge exchanges on the environmental impacts of materials / services used in the European railway infrastructure assets. He follows-up the technical contributes of the involved partners (infrastructure managers, industry, Academia) and acts as interface towards the IM community.

Within the RailEnergy Project, he is responsible for technical contributions within the fields of energy efficiency statistics and the interaction with European railways for data handling to producing an energy traction consumption Europe-wide database. Periodically he supports his business unit in the organisational development of disseminating workshops.

He recently also started providing his support in a UIC experience platform concerning operational challenges and issues due to extreme cold weather conditions for IMs and train Operators called "Winter and Rail".



ANTONIO FERNÁNDEZ

Main Author of the presented Paper

Antonio Fernández is a tenured associate professor of the Comillas' Engineering School, ICAI and a research fellow in the Institute for Research in Technology. He is a member of the Rail Systems Research Group of the Institute and the Director of Comillas' Master's Degree in Rail Systems.



MAHMOUD GHAEDAMINI

Born in Asadabad of Shahrkord (The center of a western state) in 1976

He graduated in 1995 from high school and was graduated in 2000 from university with electronic engineering (BS) degree from IUT university (www.iut.ac.ir).

In 2001 was employed in Iranian railway (RAI) In Tehran and has worked as Signaling installation supervisor along with Siemens , Iskera , Alkatel , IRCON in CTC project Now there is another opportunity in safety project in Isfahan to earn more experiences

The most important favor is study new method of increasing of safety in railway and so with study MS with a proposal as title of Management Of Security & Safety In Railway and researching about.

Always being interest in poetry as another art.



YOSOF GHAED AMINI

Born in Shahre kord (The center of a western state) in 1977

Yosof Ghaed Amini has an Associate Degree in Automotive Mechanics and BS of Railway Rolling Stock Engineering.

He worked in a lot of companies of National Iranian Railways “RAI” in the field of design of wagons and supervising for maintenance and repair of locomotives. In this regard, he is proud of designing first Iranian wagon that could transport automobiles. He is able to meet deadlines and can work within a team or on his own initiative, then, since 2009 Falagh Co. “one of companies of RAI” chose him as manager of Isfahan site that will have 50 DF8BI locomotives of Qishuyan Co. About his academic experiences he is teacher of Mechanic Physics and Locomotive Dynamic in Learning Center of Isfahan Province Railway



MARKUS HALDER

Markus Halder joined the Rail Environmental Center of Swiss Federal Railways SBB in January 2006.

He is heading the company wide energy saving initiative of SBB.

He graduated with a masters degree in environmental engineering (Dipl. Ing.) from Technische Universität Berlin in 1999 and worked for Deutsche Bahn from 1999-2005



CHRISTIAN KAMBUROW

Diplom-Ingenieur

31 years old, senior researcher at IZT – Institute for Futures Studies and Technology Assessment in Berlin, Germany.

Mr. Kamburow graduated in 2004 at the University of Applied Sciences in Bielefeld in Product Development, an interdisciplinary degree programme in Electrical and Mechanical Engineering. Since 2005 he is a researcher at IZT. For the last few years he has worked in numerous research and consulting projects dealing with railways and environment for customers such as UIC, European Commission and German federal ministries and other public bodies. He was member of the team which developed the UIC leaflet 345 “Environmental Specifications for new rolling stock” and is currently involved in the Railenergy and CleanER-D projects as well as the ARISCC project (Adaptation of Railway Infrastructure to Climate Change), commissioned by UIC.



CHEUL KYU LEE

Cheul Kyu Lee was born in Daegu, South Korea, on Oct 8, 1971. I graduated from Kyungbuk University in 1995

with a degree in industrial chemistry. After graduation, I did military service as an officer. I completed

a Master of Science in industrial chemistry. For several years I worked as a chemist for LG chemicals and now working as a researcher for Korea railroad research institute from 2002. And, I will get the ph.D. in Ecodesign from Ajou University in 2011.

My research field is 'Life Cycle Analysis' and 'Ecodesign for railway system' to lower the CO2 and to raise the sustainability of railway industry.

My major paper is 'Assessing environmentally friendly recycling methods for composite bodies of railway rolling stock using life-cycle analysis, Transportation Research Part D, 2010)

WIM OOSTERWIJK

After a study in Transport Economics at Erasmus University Rotterdam he joined the Dutch Ministry of Transport for research activities.

Since 1992 he is working for NS (Dutch Railways) in different responsibilities. Between 2000 and 2008 he was as European Affairs Manager involved in European politics. Special activities regarded the development of a European passenger charter and the organisation of UIC Highspeed conference 2008 in Amsterdam. Since 2006 already actively involved in the development and communication of sustainability policy of NS both in the Netherlands and in Europe. From 2009 active in NS as advisor communication and sustainability



Tilo Schumann

1979	Born in Berlin, Germany
1998 – 2005	Technical University Berlin, studies of traffic engineering
2003	Austrian Federal Railways (ÖBB), Vienna, Training, Network Division
2005	German Railways, DB Fernverkehr, Frankfurt, Degree (“Macro simulation” of the overall German passenger train traffic)
2005 – 2008	Transport Association Berlin-Brandenburg (VBB), Berlin, Quality Manager, Assistant to planning and timetable coordination
Since 2008	German Aerospace Center, Institute of Transportation Systems (DLR TS), Braunschweig, Research Assistant (railway operation, energy efficiency, port container traffic, high speed train operation)



ANTON VAN HIMBERGEN

Lloyd's Register Rail

Principal Consultant and Business Developer at Lloyd's Register Rail in Utrecht (the Netherlands). Background: Mechanical Engineering, TU Eindhoven. 18 years experience in the railway sector. Nowadays responsible for market- and product development in Domain Environment on European level (noise, vibrations, energy, carbon emission, pollution, environmental management) and Consultant for sector-wide issues in the field of environment, interfacing, regulations and standardisation. Assisting the main passenger railway operator in the Netherlands NS in achieving their goals on the 2 pillars of sustainability, noise and energy/CO2



PETER WILBERS

Peter Wilbers is a senior programme manager at NL Agency (formerly known as SenterNovem), the Dutch agency for innovation and sustainable development, and an agency of the Dutch Ministry of Economic Affairs.

He is involved in the Dutch national ecodriving programme 'Het Nieuwe Rijden'. The goal of the programme is to reduce the CO₂ emissions from traffic and transport, in full collaboration with a comprehensive network of consumer and retail organisations. He has extensive knowledge regarding implementing the national programmatic approaches of ecodriving. He has been involved in many other national and international ecodriving projects and has been coordinating several EU projects, amongst them TRAINER, which focused on ecodriving with trains. TRAINER closely collaborated with Railenergy (FP6) and the UIC. Other experience includes noise reduction of urban traffic and the evaluation and monitoring of governmental programmes regarding cost-effectiveness and CO₂ emission avoidance. Peter has got a Master in sociology.



DINGQUAN ZHANG

born in Shanghai in November 1962

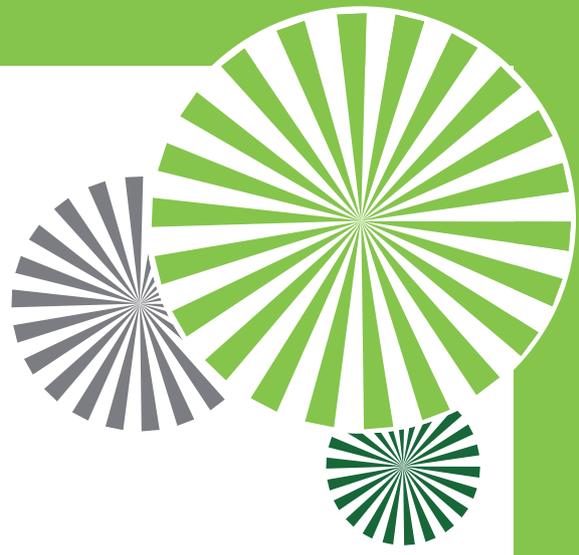
Senior engineer, general manager and technology director, East China Science & Technology
Dingquan Zhang graduated from the Department of polymer composites of East China University of Science & Technology.

- he was awarded for 2009 Shanghai Science and Technology progress third prize (first completed) and
- in September 2009 technology innovation fund for SMEs through the acceptance.
- November 2008 the company was identified as high-tech enterprises in Shanghai. 2006 high friction composite brake block won the greatest potential for technology trade as first prize in China international industrial fair.

There are two projects through the Shanghai high-tech achievements. At the same time, he has 5 patents for invention and one utility model patent



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