

16th Annual Asia Rail Congress

# AsiaRail 2009

9 – 13 November 2009, Four Seasons Hotel Bangkok

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Optimising Technology, Planning & Investment for an Efficient & Sustainable Rail Network

With 40 speakers covering 13 different countries, the 16th Annual Asia Rail Congress is THE definitive rail conference for the region, and for those interested in developing business here.

## Supported by Thai Government and Operator Speakers, including:



Oravit Hemachudha  
Director  
Traffic Engineering  
Office  
Bangkok Metropolitan  
Administration (BMA)



Dr Chaisak Srisethanil  
Project & Engineering Dept.  
Manager  
Bangkok Mass Transit  
System Public Co  
(BTS)



Lakthan Thongnopakoon  
Deputy Operations Director  
Bangkok Metro Public Co  
(BMCL)

- H.E. Sapon Saram, The Minister, Ministry of Transport\*
- Pranote Suriya, Deputy Director General, Office of Transport Planning (OTP)\*
- Dr Areepong Bhoocha-oom, Director General, State Enterprise Policy Office, Ministry of Finance\*

- Lakthan Thongnopakoon, Deputy Operations Director, BMCL
- Oravit Hemachudha, Director, Traffic Engineering Office, Bangkok Metropolitan Administration (BMA)
- Dr Chaisak Srisethanil, Project & Engineering Dept. Manager, BTS
- Dr Krit Anurakamonkul, Director of Operations, State Railway of Thailand\*

## Featuring a Panel of International and Regional Experts including:



Noormah Mohd Noor  
CEO  
Express Rail Link



Dr Hong Soon-Heum  
Principal Researcher & Processor  
KRRI, S. Korea

- Craig Wilson, National Manager, Environmental Sustainability Planning, **ASCIANO**
- Niraj Kumar, General Manager, **Dedicated Freight Corridor Corporation**
- R Gopal, Director, Transportation & Logistics, **Frost & Sullivan**
- John Nuttall, Traction & Rolling Stock Manager, **Halcrow Pacific**
- Prof. Jan Lundberg, PhD Prof. of Mechanical Engineering, **Lulea University of Technology**
- Evan Auyang, Associate Principal, Travel, Infrastructure & Logistics Division **McKinsey & Co**
- Leung Sze Kwan, Infrastructure Maintenance Manager TKL, **MTR Corporation**

- Jian Yan Wang, Director of Planning, **PB China**
- Sanjiv Garg IRTS, Executive Director, **Rail Vikas Nigam**
- Anirudh Gautam, Executive Director – Engine Development, **Research Design & Standards Organisation**
- Tay Tien Seng, Director, Light Rail, **SMRT**
- Mary Bonar, Head of Rail, **Stephenson Harwood**
- Tang Van Dong, Deputy Director, International Relations, **Vietnam Railway Corporation**
- Reindert Westra, **World Bank**
- Chanin Manopiniwes, Infrastructure Economist, **World Bank**

Plus many more...



Peter Moore  
Executive Director  
International Association  
of Public Transport - UITP  
(Australial/ New Zealand)



Dr Luu Xuan Hung  
Vice Director  
Hanoi Metropolitan Rail  
Transport Project Board  
Vietnam



Dr PC Sehgal  
Managing Director  
Mumbai Railway Vikas  
Corporation, India



Sharad Saxena  
Climate Change Specialist  
(Transport)  
Asian Development Bank

## Highlights for Asia Rail 2009 Congress:

- Government addresses from Thai Ministries of Transport and Finance
- New flexible format: Attend two, three, four or all five days
- Special focus on sustainability and energy saving
- 10 countries across Asia Pacific represented
- 13 transport ministry and operator speakers

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## Programme at a Glance

	Monday 9th November	Tuesday 10th November Congress Day One	Wednesday 11th November Congress Day Two	Thursday 12th November Congress Day Three	Friday 13th November Congress Day Four
Morning	<b>WORKSHOPS</b>	<b>URBAN MASS TRANSIT PROJECTS &amp; PLANNING</b>	<b>FINANCING &amp; REVENUE MANAGEMENT</b>	<b>TECHNOLOGY, SAFETY &amp; EFFICIENCY</b>	<b>FREIGHT NETWORKS &amp; INTERMODAL CONNECTIVITY</b>
	Workshop A: <b>Adopting a Unified Approach to Railway Communications</b> Workshop B: <b>Passenger Pricing Strategies</b>	Welcome by Ministry of Transport, Thailand; Update on mass transit rail projects in Bangkok	Accessing financing and structuring deals  Green financing	Signalling, communications, O&M  Technology round-tables	Freight project updates from Thailand, Vietnam, India & China;  Planning, financing & technology for freight networks
	Lunch				OR
Afternoon	Workshop C: <b>Project Delivery &amp; Management</b> Workshop D: <b>Cost Reduction Initiatives for Rail Operators</b>	Regional project update, including India, Vietnam, China, Hong Kong & Singapore	Alternative funding strategies Opportunities for FDI Air-Rail Links	Sustainability, climate change and energy-saving options for rail	Site Visit to Bangkok Airport Express
	Evening	Official cocktail party	Official congress dinner		

## Workshops – Monday 9th November 2009

Workshops will run from 9.00 – 12.30 in the morning, and 13.30 – 17.00 in the afternoon. **Choose A or B in the morning, and C or D in the afternoon.**

Lunch will be provided for all workshop participants and speakers.

### A) Adopting a Unified Approach to Railway Communications

Communication systems are mission-critical for operators. The ability to reliably relay voice, data and video between control centres, trains, stations, passengers and staff means increased operational efficiency, optimised maintenance and better service for passengers. Improved fault and asset management, as well as remote monitoring translate into significant cost reductions, while real-time communication with ground and emergency personnel means better safety and security.

Get a masterclass in railway communications from this workshop which will detail the various elements of an integrated communication system, its applications and how it can benefit your urban or mainline network.

- Features and benefits of the Global System for Railway Communications (GSM-R)
  - GSM-R uses and applications
  - Update on feasibility studies in Asia Pacific
  - Benefiting from economies of scale
- Using IP based communication systems for improved safety and security (CCTV)
- Implementing Unified Communications to improve the passenger experience (WiFi, entertainment on trains, ticket booking)

### B) Passenger Pricing Strategies – A Customer-Centric Approach to Revenue Generation

As a public utility, rail services are an essential lifeline for a vast majority of the population. The setting of fares is therefore necessarily political and fares need to be affordable while still achieving the revenue goals of government and the rail operator.

At this immensely practical workshop, you will learn latest pricing techniques for public transport, the impact of subsidies and social welfare on railway pricing, how to gain political acceptance and annual fare adjustment mechanisms.

- Reviewing government policies on subsidies and limits on fare pricing
- Aligning the operating plans of railways with customer expectations and demands
  - What percentage should passenger fares be of total revenue?
- Serving multiple customer segments and developing unique value propositions
- Getting to grips with the top down approach to fare setting
- Using Discrete Modelling Choice techniques to set fares
- Econometric model – willingness to pay vs. value of time saved
- Moving from monitoring 'Average Fares' to 'Average Revenue Per User'
- How to present fare information to the public and convince them of its fairness
- Using customer satisfaction and expectations as a means to guide future investments

#### Workshop leader:

**Alok Jain, President, Trans-Consult**

As President of Trans-Consult, Alok undertakes consulting work in the areas of Public Transport Planning, Marketing, Pricing, Revenue Management and Fare collection technologies. Alok has over 20 years of industry experience. Until March 2008, he worked for MTR Corporation (Kowloon Canton Railway Corporation, prior to its merger with MTRC)

Hong Kong for more than 10 years in areas of Project Planning and Management, Finance and Marketing. In his last position as General Manager-Marketing, he was accountable for developing strategies for pricing, ticketing, service planning, promotion and passenger communications. During his tenure, he also served as a Director in Octopus Group, which manages one of the most successful smart card payment platforms in the world and was a member of the Finance & Commerce Sub-committee (Metro Division) of the UITP.

### C) Project Delivery & Management

Global statistics indicate that cost overruns of 40% are not uncommon in rail projects, and could be as high as 80%. Good project management is therefore essential for operators to be able to manage their costs. This workshop will set a framework for rail project management and identify the common elements required for optimum performance, monitoring and control.

- How to initiate proposals, feasibility, off-takes and project concepts
- Mapping out the lifecycle of a project, its scope and required resources
- Creating a competency matrix and determining the requirements per discipline
- Structuring projects to attract financing
  - Achieving the right mix of risk and reward
  - Designing attractive payment schemes so that an attractive ROI on investment is achieved
  - Deciding whether to package the deal into one or multiple contracts
  - Assessing and factoring in country risk
- Identifying the real risks in rail projects
- How can clients and the supply chain collaborate to improve project management capability?

### D) Cost Reduction Initiatives for Rail Operators

This workshop will provide an overview of initiatives and current best practices to increase efficiency and reduce Opex for rail operators whilst promoting green branding ideals. It will help operators take a holistic approach, using various methods at their disposal.

- LED lighting & signalling replacement to reduce electricity and maintenance costs
- Improved train movement profiles and scheduling to reduce energy costs
- Providing quick ROI through converged integrated systems for improved operations and communications efficiencies
- Restructuring the supply chain combined with Lean practices for lower spares costs and logistics efficiencies

The workshop will end with an interactive session where operators can input information to create a cost-benefit analysis based on their own railways.

#### Workshop leader:

**Paul Evans, Managing Director, InfraAsia**

InfraAsia™ provides a full range of project management, engineering and technical services to the rail industry, covering a vast range of communications and control technologies. From its bases in Hong Kong and Bangkok, InfraAsia's network of local and expatriate professional and technical resources is well placed to fulfill client requirements in Asia, with a particular emphasis on the South East Asian region.

“44 million people are being added to Asia's urban population every year, equivalent to 120,000 people a day, placing considerable strain on urban mobility.”

Asian Development Bank – ‘Asia's Transport Challenge’

16th Annual Asia Rail Congress



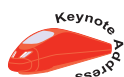
## Day One Tuesday 10th November 2009

### Planning and Project Management for Urban Mass Transit Rail in Asia

- 9:00 **Opening remarks by the Chairperson**  
David Hyland, Managing Director, Rail Personnel
- 9:10 **Welcome Address: Progress Report and Financing for Thailand's Urban Rail Expansion**  
H.E. Sopon Saram, The Minister, Ministry of Transport, Thailand\*
- 9:20 **Opening Address: Building a Safe, Reliable and Convenient Mass Transit System in Bangkok**
- Project delivery timelines and management for the Purple Line and Red Line extensions
  - New signalling system and rolling stock requirements
  - Measuring the socio-economic benefits of the mass transit rail system in Bangkok – How has traffic congestion been relieved and what has been the impact on air quality?
  - Lessons learned in maintenance and management
  - Meeting the challenges of implementing an integrated ticketing system
- Pranote Suriya, Deputy Director General  
Office of Transport Planning (OTP)\*
- 9:45 **Update on the SkyTrain Extension Plans**
- Reporting results from trial runs on the Silom line extension
  - Detailing progress on and plans for Phase I and Phase II extensions
  - Progress report on the first phase of the re-signalling project
- Oravit Hemachudha, Director, Traffic Engineering Office, Bangkok
- 10:10 **Planning Competencies for Integrated Urban Transport Planning and Transit Orientated Design**
- Reviewing steps for the planning process and gaining stakeholder involvement
  - Planning for commuting and transportation times, accessibility and additional facilities in metro networks
  - Understanding the economics of developing rapid transit in low-density areas
  - Developing indicators to measure success based on transit ridership, pedestrian activity and safety, increase in property value and tax revenue, and public perception
  - How to quantify subsidies against external benefits such as reduced congestion and air pollution
- R. Gopal, Director, Transportation & Logistics, Frost & Sullivan
- 10:40 Morning Refreshment Break
- 11:00 **How Third Party Assurance Providers are Helping to Meet the Challenge of Asia's Rail Development Boom**
- Keeping safety and performance targets on track
  - Reducing project risks
  - Addressing technical and resource challenges
- Dr Sukhy Barhey, Director, Rail & Risk Management, Lloyd's Register Rail
- 11:30 **Towards Transport Energy Efficiency for Thailand**
- Patterns of energy consumption and greenhouse gas emissions in transport
  - Explaining the reasons behind low energy efficiency in transport
  - Strengthening policy and institutional coordination to realise efficiency gains in the transport sector
  - Using pricing mechanisms to induce behavioural changes and sectoral adjustment
- Chanin Manopinives, Infrastructure Economist, World Bank

### SHOWCASING REGIONAL PROJECTS

- 12:00 **Planning for Mega-Transport Developments in Cities – Case Study of Beijing**
- How international events can be a catalyst for sustainable city development
  - Coordinating and integrating public transport initiatives and projects on a huge scale – lessons learned
- Dr Jiangyan Wang, Director of Planning, PB China
- 12:30 Networking Lunch for Speakers and Delegates
- Afternoon Chairperson: John Powell, Managing Director, Rail Consult Asia**
- 14:00 **Update on the Tseung Kwan O Line Extension and LOHAS Park Station Opening**
- Gearing up to support overall operational readiness
  - Facilitating trial runs to test the safety and robustness of the infrastructure system
  - Pre-revenue operations maintenance and resourcing
  - Assuming full maintenance responsibilities from project partners upon commencement of revenue service
- Ir. S.K. Leung, Infrastructure Maintenance Manager - TKL, MTR Corporation
- 14:30 **Identification of Threats and Early Solutions – A Turnaround Case Study of the World Bank Funded Mumbai Urban Transport Project**
- Solving overcrowding problems on trains carrying 5,000 passengers each (6m per day total)
  - Financing strategies for adding additional railway lines
  - How CO2 levels were reduced by 20% through air cooling systems
  - Saving 20m units of electricity and generating carbon credits
  - Implementing the latest technology to decrease operating costs
- Dr PC Sehgal, Managing Director, Mumbai Railway Vikas Corporation
- 15:00 **Vision 2020 for Urban Railway Network Development in Hanoi**
- How rail fits in to the mass rapid transit masterplan for Hanoi
  - Outlining the investment needed for rail network development as a portion of overall transportation funding
  - Detailing the current status of each project and technical specifications – rolling stock features, track, signalling, telecommunications and power supply
  - Looking beyond 2020 for further extensions into satellite cities and other urban areas
- Dr Luu Xuan Hung, Vice Director, Hanoi Metropolitan Rail Transport Project Board
- 15:30 Afternoon Refreshment Break
- 16:00 **Update on BTS' Plans: the Development and Operation of New Routes in Bangkok**
- Dr Chaisak Srisethanil, Project & Engineering Dept. Manager, BTS
- 16:30 **Challenges in Starting Up a Driverless Metro System for Revenue Service: Case Study of the Circle Line, Singapore**
- Training and competency management
  - Safety certification and quality assurance
  - Managing trial runs for operations readiness
  - Promotions and publicity in gearing for the event
  - Performance management – Operations Performance Standards (OPS) and Key Performance Indicators (KPIs)
  - Revenue management
- Tay Tien Seng, Director (LRT/System Integration/Power Services), SMRT
- 17:00 **Ownership and Management of Kuala Lumpur's Metro Projects**
- What new projects are coming up under the new Government for upgrading and extending lines in KL?
  - Outlining the franchise arrangement for building, owning and operating the Kelana Jaya and Ampang Lines – responsibilities, risks and rewards
  - Calculating the cost/benefit payback and social benefits of the KL Sentral rail projects
  - How has the proliferation of low-cost airlines affected the revenues and economics of the KL-Singapore and other routes?
- 17:30 Close of Day One & Official Conference Cocktail Party



\* under invitation

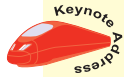
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## Day Two Wednesday 11th November 2009

### Accessing Financing & Structuring Deals

9:00 **Welcome and Opening Remarks by the Chairperson**  
**Mary Bonar**, Head of Rail, **Stephenson Harwood**

9:10 **Plans for an ASEAN Transport Infrastructure Development Fund**



- Timeline for setting up the fund
- How the fund will be managed and administered
- Describing the application process for accessing the fund
- How projects will be assessed for funding
- Mobilising funds from the private sector

**Dr Areepong Bhoocha-oom**, Director General, State Enterprise Policy Office, **Ministry of Finance, Thailand\***

9:40 **Determining the Applicability of Public Private Partnerships (PPP) in the Current Economic Climate**

- Understanding where PPP is appropriate and how to use it
- Examples of successful PPP projects
  - Traditional (Govt facilitates private sector work)
  - Partnership (Govt procures civil works contracts, private sector responsible for systems, track, station & rolling stock, staffing)
- Matching the best delivery model to the government and private sector appetite for risk
- Conducting due diligence and determining how operations, maintenance and building impact risk on the lender's side

**Mary Bonar**, Head of Rail, **Stephenson Harwood**

10:20 Morning Refreshment Break

10:40 **Securing Financing from Global Financial Institutions**

- Organisation, structure and involving the private sector
- Making projects more bankable – matching financing to the life-expectancy of rail projects
- Realistic financing options

**Reindert Westra**, **World Bank**

11:20 **Selecting the Right Financing and Operations Model for your Project**

- Build and Transfer
- Design-Build-Operate-Maintain (DBOM)
- Design-Build-Finance-Operate (DBFO)
- Determining which delivery process is appropriate for your project
- Dealing with risk allocation, ownership and stakeholder support issues

**Jeffrey Parker**, President, **Jeffrey A. Parker & Associates**

12:00 **Accessing Green Financing**

- Overview of the Asian Development Bank's Carbon Market Initiative
- Understanding the criteria and process for generating carbon credits for funding projects or research

**Sharad Saxena**, Climate Change Specialist (Transport), Sustainable Infrastructure Division, **Asian Development Bank**

12:40 Networking Lunch for Speakers and Delegates

14:00 **Emissions Trading and Rail**

- What is emissions trading and how may it work in the future - globally, at a country level and at a company level?
- What issues does this present in the transport sector and in particular rail?
- Will rail be a winner or a loser?
- Can Asian rail companies create carbon permits from investment in rail?
- How do the economic issues behind emissions trading impact on rail at a government and company level?



**Craig Wilson**, National Manager, Environmental Sustainability Planning, **ASCIANO, Australia**

14:40 **Financing China's Rail Networks**

- What is driving China's rail demand and where are the priorities for China's rail build-up?
- What are the implications for opportunities in foreign direct investment and how are foreign companies able to get involved in projects?
- What are the learnings so far from foreign/private companies that have participated?
- What are the key success factors for participating?

**Evan Auyang**, Associate Principal, Travel, Infrastructure & Logistics Practice, **McKinsey & Co**

15:20 Afternoon Refreshment Break

15:40 **Increasing Revenues through Implementation of a Yield Management System in Korea's High Speed Trains**

- System specifications and how it interfaces with the Integrated Railway Information System (IRIS)
- Achieving Origin-Destination control and discount ticket control
- Processing power and data collection points
- Revealing results to date and future plans for the YMS

**Dr Soon-Heum Hong**, Principal Researcher, **Korean Railroad Research Institute**

16:10 **New Innovations in Air Rail Links**

- Update on the Bangkok Airport Rail Link
- Managing the logistics of in-town check-ins and baggage pick-up
- Weighing the benefits and economics of providing First Class (VIP) services
- Integrated ticketing innovations and progress so far – Bangkok, Delhi, Hong Kong, Beijing
- Comparisons between the Hong Kong and Kaoshiung Airport Links, and implications for the Bangkok Airport Link



Speakers include:

**Richard Brown**, Director, **North Star Consultancy**  
**Dennis Li**, Director & Managing Consultant, **MetroSolutions**  
**Noormah Mohd Noor**, CEO, **Express Rail Link**

17:10 Close of Day Two

19:00 Official Congress Dinner

## Day Three Thursday 12th November 2009

### Technology, Safety & Efficiency

9:00 **Welcome and Opening Remarks by the Chairperson**

**Peter Moore**, Executive Director, **International Association of Public Transport – UITP (Australia/New Zealand)**

### SIGNALLING & COMMUNICATION SYSTEMS

9:10 **Project Delivery for Singapore's Downtown Line**

**Robert Cooke**, Senior Signalling Engineer, **Invensys Rail**

9:40 **Increasing Train Speeds and Line Capacity through Communication-Based Train Control (CBTC)**

- What level of automation do you need and do you need back-up systems?
- Radio-based, rail-based and loop-based media and their applications
- How do automated train scheduling systems impact the need for wayside devices?
- Which parts of the European Rail Traffic Management System (ERTMS) Level One are applicable in Asia?
- Maintenance of CBTC compared with conventional signalling systems

**Ansaldo STS**

\* under invitation

- 10:10 **Panel Discussion: Whole-Life Support and Sustainability of Signalling Systems - Achieving a 25 year ROI**
- Extending the life of relay systems through cable management
  - Overcoming obsolescence in electronic interlocking systems
  - Interfacing with computer systems
  - When to upgrade? Mini vs. full upgrades
  - Case study of contractors taking on BOM contracts – Which systems did they choose?

Moderated by:

**Michael Hamlyn, CEO, Kusieog**

10:50 Morning Refreshment Break

## OPERATIONS & MAINTENANCE

- 11:10 **Tailoring Maintenance to the Asset**
- Tailoring your maintenance according to how the asset actually degrades and only when it is needed
  - Maintenance to minimise downtime
- John Nuttall, Traction & Rolling Stock Manager, Halcrow Pacific**

11:40 **ROUND-TABLE SESSIONS – 30 minutes each, choose two to attend**

### 1 Passenger Information and Digital Signage

**Alok Jain, President, Transconsult**

### 2 Construction Risk Management

**Timothy G. Galarnyk, CEO, Construction Risk Management**

### 3 Designing Out Maintenance

**Prof. Jan Lundberg PhD, Prof. of Mechanical Engineering, Division of Operation & Maintenance Engineering, Lulea University of Technology**

### 4. Automated Fare Collection

12:40 Networking Lunch for Speakers and Delegates

## SUSTAINABLE RAIL

14:00 **Achieving Climate Change and Environmental Objectives – How has Australia Managed to Reduce Greenhouse Gas (GHG) Emissions through Investment in Rail?**

- What part does rail play in Australia's new climate change initiative and national targets for lowering emissions?
- Improving coordination between governments, agencies and operators
- Build it and they will come – transport infrastructure as a vehicle for strategic urban growth
- It's all in the delivery – providing people with what they need, where they need it and when they need it

**Peter Moore, Executive Director, International Association of Public Transport – UITP (Australia/New Zealand)**

14:30 **Creating a Sustainable Metro Operation in Bangkok – Plans and Experience from BMCL**

- Outlining the background to BMCL and its commitment to the UITP's Charter on Sustainable Development
- Setting sustainable goals, using targets based on Nova and applying these to the BMCL situation
- Tools and processes used for continuous improvements
  - Asset management
  - Maintenance contracts – improvements and realignment
  - Targeting critical systems and equipment
  - Risk Based Maintenance
- Progress to date with examples of outputs, and lessons learned

**Lakthan Thongnopakoon, Deputy Operations Director, BMCL**  
**Michael Hamlyn, CEO, Kusieog**



15:00 **Best Practices in Train Operation and System Design for Optimum Energy Saving Opportunities**

- Considering energy saving techniques at the rail system planning and design stage
- Benchmarking energy performance with other railway systems
- Building the business case for investing in energy saving and identifying low-cost investment opportunities
- What initiatives can you put in place now, without having to wait for asset replacement or technological advancement?

**Albert Chui, Rolling Stock Specialist, Star Top**

15:30 Afternoon Refreshment Break

15:50 **Panel Discussion: Energy Saving Options for Rail**

- What current technologies are available for reducing energy consumption on rolling stock?
  - Regenerative braking systems
  - Anti-idling technology
  - Energy saving motors
  - Trackside energy storage
  - Cooling systems
  - Platform screen doors
- What is the outlook for longer, higher, more aerodynamic trains that will work with existing track infrastructure in Asia Pacific?
- What are the options for better train control?
- How can driver training improve energy consumption?

Panellists include:

**Craig Wilson, National Manager, Environmental Sustainability Planning, ASCIANO, Australia**

**Albert Chui, Rolling Stock Specialist, Star Top**

**Anirudh Gautam, Executive Director – Engine Development, Research Design & Standards Organisation (RDSO)**

16:30 **Future Fuels – Evaluating the Potential of Next Generation Fuels and Alternative Energy Sources for Low Cost, Sustainable Alternatives to Diesel**

- Weighing up the cost, energy efficiency and sustainability of alternative fuels such as ultra low sulphur diesel and biofuel
- 1st, 2nd and 3rd generation biofuels and their impact on rail traction
- Measuring progress towards the establishment of a consortium of various governments on biofuels development – building knowledge banks and sharing findings
- Timeframe for the delivery of solutions following collaboration between operators, governments and OEMs
- Revealing results from the latest feasibility studies on hydrogen fuel cells. When will this technology be available and how should you start planning for it?
- Evaluating the viability of hybrid locomotives
- Debating the business case, costs and environmental impact of electrification – What are the options and limitations for generating electric power from renewable or nuclear sources?
- What are the best options for emerging countries? - Managing the food vs. fuel debate

**Anirudh Gautam, Executive Director – Engine Development, Research Design & Standards Organisation (RDSO)**

17:00 Close of Day Three



## Day Four Friday 13th November 2009

### Technology & Operations for Freight Networks & Intermodal Connectivity

9:00 **Welcome and Opening Remarks by the Chairperson**

9:20 **Freight Challenges in a Carbon Constrained World**



- Why are greenhouse gases an issue for rail freight?
- Australia's review on carbon, freight and rail productivity
- High Productivity Trains and other ways of meeting the challenge
- Preparing yourself for what customers and governments want in a carbon constrained world
- How can these developments be applied in Asia?

**Craig Wilson**, National Manager, Environmental Sustainability Planning, **ASCIANO, Australia**

10:00 **How the State Railway of Thailand can Increase its Share of Goods Transportation in the Future**



- Comparing rail freight with road and other modes of transport in Thailand
- How much is freight increasing in Thailand and how much of this will be taken up by rail?
- Determining how much investment is needed to increase rail freight capacity to deal with increasing trade
- Detailing progress on track upgrades and new lines
- Where will the next strategic investments be in terms of new routes?

**Dr Krit Anurakamonkul**, Director of Operations, **State Railway of Thailand\***

10:40 Morning Refreshment Break

11:00 **Raising Capacity on China's Freight Networks**



- What is the planned investment in China's freight networks and how will this be allocated over the next five years?
- Plans for new construction, double-tracking and electrification
- Progress report on new coal and general freight lines
- Improving safety, speed, convenience and diversity through containerisation

**Lu Changqing**, Chief Secretary General, **China Railway Society\***

11:40 **Opportunities and Challenges in Vietnam's Freight Industry**



- Financing and investment opportunities for Vietnam's national rail networks
- Exploring possible business partnership ideas
- How is Vietnam moving towards developing an effective multimodal system?

**Tang Van Dong**, Deputy Director International Relations, **Vietnam Railway Corp**

12:20 Networking Lunch for Speakers and Delegates

13:50 **Opportunities for Public Private Partnerships (PPP) in Indian Railways**



- Outlining the rationale for PPP on Indian Railways
- Detailing the development of PPP projects
- Evaluating which PPP projects have been successful and why
- What are the future prospects for PPP on Indian Railways

**Sanjiv Garg IRTS**, Executive Director, **Rail Vikas Nigam**

14:30 **Project Update on India's Dedicated Freight Corridor**



- Current projections on traffic figures
- Planning the operations and maintenance regime
- Obtaining project financing
- Contracting strategy

**Niraj Kumar**, General Manager, **Dedicated Freight Corridor Corporation**

15:10 Afternoon Refreshment Break

15:30 **Developing World Class Terminals**

16:10 **Managing Rail Network Access**

- Why have open access? An overview of the policy drivers
- Explaining current institutional and regulatory frameworks
- What is working and what is not?
- Case study: recent developments in Australian heavy haul networks

**Paul Bugler**, Director, **Lacertus Verum**

16:50 Close of Day Four

\* under invitation

## Site Visit Friday 13th November 2009

### Bangkok Airport Express – In-town check-in terminal and control centre

Before the official first test runs of the Airport-Express commence, be among the first to visit the facilities and service centres of the new air-rail link. The Governor of SRT, Yutthana Thapcharoen, envisages that the unit will run as a profitable business, rather than wait for Government funding.

Take an exclusive ride on the brand new Airport Express and find out the latest progress on plans for operations and revenue generation.

## Sponsor Information

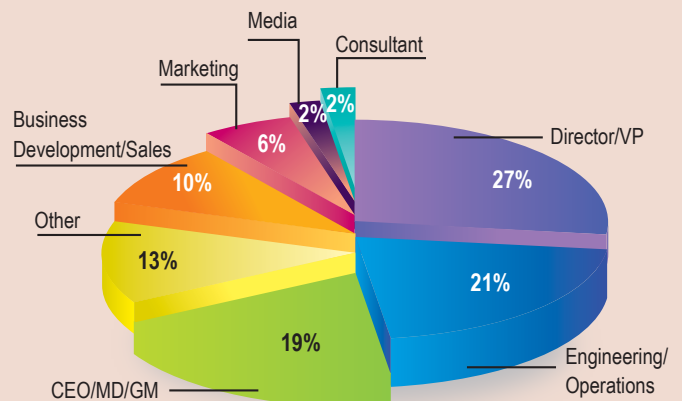
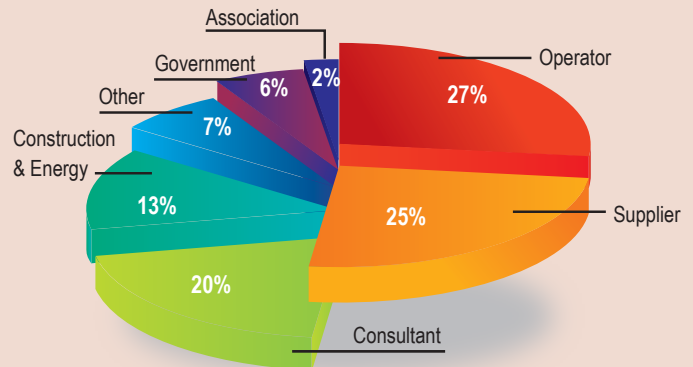
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Contact John Hodgkins at [jhodgkins@beaconevents.com](mailto:jhodgkins@beaconevents.com) or Tel +852 2531 6108

With a proven trade record of attracting senior VPs and directors, regional rail operators, Asia Rail 2009 is the ideal place to showcase your solutions and expertise.

## Asia Rail 2008 Singapore



“Wide range of speakers and topics”

Ambuj Chaturvedi, Railway Co-ordinator,  
Overseas Infrastructure Alliance India Pvt Ltd

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### Senior Sponsors



**Invensys Rail** is a multinational leader in delivering leading edge railway control and communication solutions. We enable the world's railways to meet the increasing demand for rail services by providing a range of solutions that safely increase the capacity of their networks by increasing frequency and maximising effectiveness.

Operational in over 30 countries, **Invensys Rail** delivers through its regional businesses which include some of the most respected names in the industry:

- Westinghouse Rail Systems, over 140 years experience delivering signalling and control systems for mainline and mass transit railways in the UK, Europe and the Far East;
- Dimetronic Signals, the leading supplier of signalling and control systems for both mainline and mass transit railways in the Iberian Peninsula, the Middle East and North Africa and Latin America;
- Safetran Systems, a major supplier of automatic grade crossing warning systems, wayside signalling systems, positive train control and mainline and yard switch machine applications to North American railroads;
- Westinghouse Rail Systems Australia, the leading mainline railway signalling and control specialist in the South East Asia region with facilities across Australia and in Indonesia, Malaysia and Thailand; and
- Westinghouse Rail Systems India providing mainline and mass transit solutions across the subcontinent.

For more information go to <http://www.invensysrail.com>



### LIFE MATTERS

Lives and livelihoods depend on quality systems you will probably never see, ships, roads and rail tracks on which you may never travel and distant production plants about which you may have never heard.

The Lloyd's Register Group is an organisation that works to enhance safety and to approve assets and systems at sea, on land and in the air. We check that assets and systems work so that people and communities around the world can get on with everyday life.

We are driven by a strong sense that what we are doing matters. To make this happen, we set, uphold and apply high technical standards for the design, manufacture, construction, maintenance, operation and performance of assets and systems across many of the world's essential industries -- to the benefit of many businesses.

Lloyd's Register stands apart: we are independent, objective, experienced and uncompromising in finding safe and reliable solutions. We are fully committed to what we do because: Life Matters

For more information, please visit [www.lr.org](http://www.lr.org)

### Lunch Sponsor

## SIEMENS

The Mobility Division (Erlangen, Germany) is the internationally leading provider of transportation and logistics solutions. With its "Complete mobility" approach, the Division is focused on networking the various modes of transportation in order to ensure the efficient transport of people and goods. "Complete mobility" combines the company's competence in operations control systems for railways and traffic control systems for roadways together with solutions for airport logistics, postal automation, traction power supplies and rolling stock for mass transit, regional and mainline services, turnkey systems as well as forward-looking service concepts.

For details, please visit [www.siemens.com/mobility](http://www.siemens.com/mobility)

### Supporting Sponsor



Ansaldo STS provides world leading systems and services to the owners, operators and users of railway and mass transit systems across the globe. From signalling to communications to complete turnkey solutions, we aim to provide value-for-money, efficient, reliable and safe systems to move resources and people to their destinations. Our local presence in the markets in which we operate ensures we can anticipate and respond fully to the diverse needs of our customers. Our ongoing commitment to their success throughout the life of a project and beyond is what sets us apart. Ansaldo STS - global resources, strengthened by our strong local presence.

For more information, please visit [www.ansaldo-sts.com.au](http://www.ansaldo-sts.com.au)

### Table Top Sponsors



### Supporting Associations



The Chartered Institute of  
Logistics and Transport  
India



The Chartered Institute of  
Logistics and Transport  
Thailand



### Media Partners





### To Register

Phone  
+852 2219 0111Email  
info@BeaconEvents.comFax  
+852 2219 0112Mail: Beacon Events Limited  
20/F Siu On Center, 188 Lockhart Rd.,  
Wanchai, Hong Kong

### Hotel Information

Four Seasons Hotel Bangkok, 155 Rajadamri Road, Bangkok 10330, Thailand  
Telephone: +66 (02) 126-8866 • Fax: +66 (02) 254-5390  
<http://www.fourseasons.com/bangkok>  
Single room rate at Bt. 4,500+ tax with breakfast.

Please do not cover Promotion Code

Brochure Code: code AT536 D23\_RTSA

### Your Details (Please use BLOCK LETTERS)

First Name (Mr/Mrs/Ms/Miss/Dr): \_\_\_\_\_ Last Name: \_\_\_\_\_

Job Title: \_\_\_\_\_ Department: \_\_\_\_\_

Direct line: \_\_\_\_\_ Mobile: \_\_\_\_\_

Email: \_\_\_\_\_ Direct Fax: \_\_\_\_\_

 Yes, I would like to receive information from Beacon Events via email

### Approving Manager

First Name (Mr/Mrs/Ms/Miss/Dr): \_\_\_\_\_ Last Name: \_\_\_\_\_

Job Title: \_\_\_\_\_ Department: \_\_\_\_\_

Direct line: \_\_\_\_\_ Mobile: \_\_\_\_\_

Email: \_\_\_\_\_ Direct Fax: \_\_\_\_\_

### Your Company Details

Company Name: \_\_\_\_\_

Business Nature: \_\_\_\_\_ No. of Employees: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_

Post Code: \_\_\_\_\_ Country: \_\_\_\_\_

FEE TABLE	Register by 28 August 2009#	After 28 August 2009
<input type="checkbox"/> Fast Track (5 day pass, incl dinner)	US\$ 3,795	US\$ 4,195
<input type="checkbox"/> 4 day pass*	US\$ 3,395	US\$ 3,795
<input type="checkbox"/> 3 day pass*	US\$ 2,795	US\$ 3,095
<input type="checkbox"/> 2 day pass*	US\$ 2,195	US\$ 2,395
<input type="checkbox"/> 1 day Freight & Intermodal pass	US\$ 795	US\$ 895
<input type="checkbox"/> Official dinner**	US\$ 120	US\$ 120
* Please tick the combination of your choice: <input type="checkbox"/> 9 November - Workshop <input type="checkbox"/> A OR <input type="checkbox"/> B      AND <input type="checkbox"/> C OR <input type="checkbox"/> D <input type="checkbox"/> 10 November - Day 1 Conference <input type="checkbox"/> 11 November - Day 2 Conference <input type="checkbox"/> 12 November - Day 3 Conference <input type="checkbox"/> 13 November <input type="checkbox"/> Freight & Intermodal      OR <input type="checkbox"/> Site Visit		
**Can not be booked stand alone, only available in combination with a 2-day pass or above. On-site registration: US\$200 surcharge will be collected and no discounts are available. # Early bird rates are contingent upon payment being received within 14 days from the registration date.		

Registration includes attendance at all sessions, documentation, refreshment breaks and lunches. Admittance will only be permitted upon receipt of full payment. (Please note the conference fee does not include travel or hotel accommodation costs.)

#### Group Discounts

Please contact our customer service team for details. Delegates are entitled to ONE discount per person registration ONLY. In the event that more than one discount is applicable, delegates will receive the discount with the highest value.

### Payment method and cancellation policy

If you wish to pay in HK\$, please contact customer service for our standard exchange rate.

**Payment Options:** Please tick the relevant box to indicate your method of payment. When making payment, please indicate delegate name and conference code: AT536PM.

 **Bank transfer**
Bank transfer should be made to: **Beacon Events Ltd.**Payment in **US\$** Account Number: **004-808-129399-838**Payment in **HK\$** Account Number: **004-808-129399-001**Swift code: **HSBCHKHHKHK**Bank name & Address: **HSBC, 1 Queen's Road Central, Hong Kong.**
 **Credit Card** (AMEX card will be charged in HK\$)
Card Type:       Security Code (CVV2): \_\_\_\_\_

Card Number: \_\_\_\_\_

Cardholder's Name: \_\_\_\_\_

Expiry Date (mm/yy) \_\_\_\_\_

Payment Amount (in US\$): \_\_\_\_\_ Signature: \_\_\_\_\_

 **Cheque or Bankdraft**

Please make your crossed cheque or bank draft payable to **Beacon Events Ltd.** in US\$ or HK\$ only. Please contact Beacon customer service for standard exchange rate. Beacon only accepts cheques drawn on a Hong Kong bank or bank draft / demand draft only. Cheques drawn on an overseas bank will be returned. PLEASE mail your cheque or bank draft and registration form (including mailing label) to Customer Service, Beacon Events Ltd, 20/F, Siu On Centre, 188 Lockhart Rd, Wanchai, Hong Kong.

#### CANCELLATION POLICY

Should you be unable to attend, a substitute delegate is always welcome at no extra charge. Alternatively, we will make a prompt refund less service charge of 50% of the fee for cancellations received in writing (letter or facsimile) no later than 4 weeks prior to the event. When less than 4 weeks notice is given, we will return with credit voucher. Thereafter we regret that no refunds/credit voucher can be made.

Beacon Events reserves the right to alter the programme without notice including the substitution, alteration or cancellation of speakers and / or topics and / or the alteration of the dates and/or location of the event.

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