

## 6<sup>th</sup> Conference on Applied Infrastructure Research (INFRADAY)

### “Sustainability and Reliability of European Infrastructure - Investment, Innovation, and Regulation”

Berlin, 5-6 October, 2007

TU Berlin (Straße des 17. Juni 135 / 136)

#### Program

<b>Friday, 5 October, 2007</b> (Hauptgebäude / Main Building, Straße des 17. Juni 135)			
13.00 h	Registration, Coffee & Tea (“Lichthof”)		
14.00 h	<b>Opening Address (Room H 1028)</b> Georg Meran (TU Berlin, DIW Berlin), Christian von Hirschhausen (TU Dresden, DIW Berlin)		
14.15 h	<b>Keynote Speech (Room H 1028)</b> <b>Iris Henseler-Unger (Federal Network Agency): Regulation to Promote Competition and Investment in Infrastructure Sectors</b> (Chair: Meran, TU Berlin, DIW Berlin)		
15.00 h	<b>Award of the 5<sup>th</sup> Hans-Jürgen-Ewers-Prize (Room H 1028)</b>		
15.30 h	Coffee & Tea (“Lichthof”)		
16.00 h	<b>Panel discussions on topical issues in European Infrastructure Policy</b>		
	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <b>Climate Change Policy for the Energy and Transport Sectors (Room H 1028)</b>            Chair: Christian von Hirschhausen (TU Dresden, DIW Berlin)            Karsten Neuhoff (University of Cambridge): <i>Infrastructure Investment Under Uncertainty about the Future EU ETS</i>            Martin Ruhrberg (Association of German Electricity Producers): <i>Energy Industries’ Perspective on the ETS</i>            Felix Matthes (Institute for Applied Ecology): <i>Implications of the Current Allowance Allocation Rules</i>            Ian Hodgson (European Commission, DG Environment): <i>EU’s Climate Policy for the Transport Sector</i> </td> <td style="width: 50%; vertical-align: top;"> <b>Infrastructure, Regulation, and Investment (Room H 1058)</b>            Chair: Felix Höffler (WHU – Otto Beisheim School of Management)            Kay Mitusch (TU Berlin, WIP): <i>Harvesting Without Killing the Plant – Investment Incentives under Regulation</i>            Paul de Bijl (CBP Netherlands): <i>Innovation, Convergence and the Role of Regulation</i>            Roger Vickerman (University of Kent): <i>Investment in Regulated Public Transport</i>            Joachim Fried (Deutsche Bahn AG): <i>Regulation and Investment in the Rail Transport Sector</i>            Graham Weale (RWE): <i>Investment and Regulation in the European and German Electricity Sectors</i> </td> </tr> </table>	<b>Climate Change Policy for the Energy and Transport Sectors (Room H 1028)</b> Chair: Christian von Hirschhausen (TU Dresden, DIW Berlin) Karsten Neuhoff (University of Cambridge): <i>Infrastructure Investment Under Uncertainty about the Future EU ETS</i> Martin Ruhrberg (Association of German Electricity Producers): <i>Energy Industries’ Perspective on the ETS</i> Felix Matthes (Institute for Applied Ecology): <i>Implications of the Current Allowance Allocation Rules</i> Ian Hodgson (European Commission, DG Environment): <i>EU’s Climate Policy for the Transport Sector</i>	<b>Infrastructure, Regulation, and Investment (Room H 1058)</b> Chair: Felix Höffler (WHU – Otto Beisheim School of Management) Kay Mitusch (TU Berlin, WIP): <i>Harvesting Without Killing the Plant – Investment Incentives under Regulation</i> Paul de Bijl (CBP Netherlands): <i>Innovation, Convergence and the Role of Regulation</i> Roger Vickerman (University of Kent): <i>Investment in Regulated Public Transport</i> Joachim Fried (Deutsche Bahn AG): <i>Regulation and Investment in the Rail Transport Sector</i> Graham Weale (RWE): <i>Investment and Regulation in the European and German Electricity Sectors</i>
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18.00 h	<b>Keynote Speech (H 1028)</b> <b>Werner Rothengatter (Univ. of Karlsruhe): Sustainable Transportation: Current Issues in Environment and Investment</b> (Chair: Roger Vickerman, University of Kent)		
18.45 h	<b>Reception (“Lichthof”)</b>		
19.30 h	<b>Buffet Dinner (“Lichthof”)</b>		
21.00 h	Join us for informal talks and a beer at “Café Hardenberg” (Hardenbergstr. 10, 10623 Berlin)		

Please note that due to the reconstructions at TU Berlin, the venue for **Saturday** is the **Mathematics Building (MA)** (Straße des 17. Juni 136, right across the main building).

Scientific Partners and Supporting Organizations

## 6<sup>th</sup> Conference on Applied Infrastructure Research (INFRADAY)

### Program

<b>Saturday, 6 October, 2007</b> (Gebäude MA (Mathematik) / Building MA (Mathematics), Straße des 17. Juni 136)						
8.00 h	Registration, Coffee & Tea (Room MA 141)					
9.00 h	<b>Keynote Speech (Room MA 001): Tommaso Valletti (Imperial College): Testing the "Waterbed" Effect in Mobile Telephony</b> Chair: Mitusch (TU Berlin, WIP)					
9.45 h	<p><b>Regulation I (Room MA 041)</b> Chair: Weale (RWE) Vickerman (U. of Kent): <i>Public Transport Provision Under Varying Regulatory Regimes</i> Borrmann (U. of Vienna) / Brunekreeft (Jacobs University Bremen): <i>Regulation and the Timing of Monopoly Investment</i> Perner / Riechmann / Roberts (Frontier Economics): <i>Transmission Investment - How to Get the Incentives Right</i> Rosellon (CIDE, TU Dresden) / Weigt (TU Dresden): <i>A Combined Merchant-Regulatory Mechanism for Electricity Transmission Expansion in Europe</i></p>	<p><b>Environmental Regulation and Innovation (Room MA 042)</b> Chair: Schleich (Fraunhofer ISI) Walz / Ragwitz / Eichhammer (Fraunhofer ISI): <i>Regulation and Innovation: The Case of Renewable Energy Technologies</i> Neuhoff (U. of Cambridge) et al.: <i>The Role of the Supply Chain for Innovation - The Example of Photovoltaic Cells</i> Ostertag (Fraunhofer ISI) et al.: <i>Local Utilities in Germany, Liberalization and the EU Emission Trading Scheme: Strategies and their Determinants</i> Kohlmann / Bauer (VDEW): <i>New Concepts for Linking Windpower with Mobility</i></p>	<p><b>Productivity (Room MA 043)</b> Chair: Bjørndal (NHH Bergen) Farsi / Fetz / Filippini (ETH Zurich): <i>Economies of Scale and Scope in the Swiss Multi-Utilities Sector</i> Growitsch (WIK) / Jamasb (U. of Cambridge): <i>Integrating Quality of Service in Incentive Regulation - Experience from Norwegian Electricity Distribution</i> Plagnet (EDF) et al.: <i>Incorporating Quality of Service in a Benchmarking Model: An Application to French Electricity Distribution Operators</i> Hess (TU Dresden): <i>Evaluating the Efficiency Effects of Industry Consolidation - Evidence from US Interstate Pipeline Companies</i></p>	<p><b>Standardization (Room MA 141)</b> Chair: Blind (TU Berlin, Fraunhofer ISI) Jakobs (RWTH Aachen University): <i>ICT Standardisation - Co-Ordinating the Diversity</i> Diaye (CEE) et al.: <i>ISO 9000 Norm as a Club Good: Network Effect Evidence from French Employer Survey</i> Blind (TU Berlin, Fraunhofer ISI) / Gauch (Fraunhofer ISI) / Hawkins (U. of Calgary): <i>How Stakeholders View the Impacts of International ICT Standards</i></p>	<p><b>Markets and Risk (Room MA 144)</b> Chair: Weinmann (ESMT) Kocsis / Bijlsma / de Bijl (CBP Netherlands): <i>Incentives for Sabotage in Telecommunications</i> Willems (Tilburg University, K.U. Leuven) / Morbee (K.U. Leuven): <i>Risk Management in Electricity Markets: Hedging and Market Incompleteness</i> Weinmann (ESMT): <i>Agglomerative Magnets and Informal Regulatory Networks: Electricity Market Design</i> Convergence in the USA and Continental Europe Geymüller (Vienna U. of Economics and Business Administration): <i>Comparing the Credit Default Risk of the Electricity- and Telecom-Industries with DEA</i></p>	
11.30 h	<b>Coffee &amp; Tea, Refreshments, Snacks</b>					
11.45 h	<p><b>Regulation II (Room MA 041)</b> Chair: Brunekreeft (Jacobs University Bremen) Jochimsen (Free University Berlin): <i>Determinants of Service Quality in Bureaucracy - Parkinson's Theory at Work</i> Andreev (Norwegian School of Management): <i>Access Pricing with Multiple Competing Regulators</i> Czerny (TU Berlin, WIP): <i>Regulation of two-part Tariffs and Quality Choice under Uncertainty</i> Höffler (WHU - Otto Beisheim School of Management): <i>Legal Unbundling - A "Golden Mean" Between Vertical Integration and Ownership Unbundling?</i></p>	<p><b>Competition and Innovation (Room MA 042)</b> Chair: Blind (TU Berlin, Fraunhofer ISI) Sanin / Zanaj (U. C. de Louvain): <i>Environmental Innovation under Cournot Competition</i> Felisberto (EPFL): <i>Modelling the Effect of Competition on Innovation in the Network Industries</i> Nowack (TU Berlin) / Blind (TU Berlin, Fraunhofer ISI) / Beckert (Fraunhofer ISI): <i>The Identification of New and Emerging Markets in the Telecommunication Sector: A First Multi-criteria Proposal for Regulatory Bodies Applied to the VDSL Case</i></p>	<p><b>Investment (Room MA 043)</b> Chair: Riechmann (Frontier Economics) Buijs / Meeus / Belmans (K.U. Leuven): <i>Analysis of EU Policy on Merchant Transmission Investments</i> Pignon / Hermon / Rossignol (EDF): <i>Investment Criteria for Generation Capacity and Interconnections in a Regional Electricity Market</i> Boom (Copenhagen Business School) / Buehler (U. of Zurich): <i>Restructuring Electricity Markets when Demand is Uncertain: Effects on Capacity Investments, Prices and Welfare</i></p>	<p><b>PPP and Concessions (Room MA 141)</b> Chair: Beckers (TU Berlin, WIP, CNI) Borrmann (U. of Vienna): <i>Awarding Monopoly Franchises Repeatedly: Are Second-best Block-rate Tariffs Attainable without Regulation?</i> Beckers / Gehrt / Klatt (TU Berlin, WIP, CNI): <i>Renegotiation Design in PPP Projects</i> Schöbener / Schetter / Pfnür (TU Darmstadt): <i>Reliability of PPP Projects under Assumptions of Cash Flow Volatility</i></p>	<p><b>Security of Infrastructure Provision (Room MA 144)</b> Chair: Jäkel (TU Berlin, WIP) Birdsall (Infrastructure Management Consultants Ltd.) et al.: <i>Assessing Infrastructure Vulnerability to Sudden Infrequent Events</i> Ott / Schulz (U. of Karlsruhe): <i>An Economic Approach of Treating External Risks from the Point of View of an Independent Infrastructure Manager</i> Görs (Nörr Stiefenhofer Lutz): <i>Open Markets and Supply Security</i></p>	
13.15 h	Lunch					
14.15 h	Keynote Speech : Steven Gabriel (University of Maryland): <i>Modeling Infrastructure and Network Industries: Theory and Applications</i>					
15.00 h	Electricity 1	Telecommunication	Air: Alliances	Transport and Energy Modeling	Gas	Highways
16.45 h	Coffee & Tea, Refreshments, Snacks					
17.00 h	Electricity 2	Railways	Air: Efficiency and Competition	Transport and Environment	Water	

### Scientific Partners and Supporting Organizations



 <b>DIW Berlin</b> German Institute for Economic Research	 <b>Berlin University of Technology</b> Workgroup for Infrastructure Policy (WIP)	 <b>Berlin University of Technology</b> Center for Network Industries and Infrastructure (CNI)	 <b>Dresden University of Technology</b> Chair for Energy Economics and Public Sector Management
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**6<sup>th</sup> Conference on Applied Infrastructure Research (INFRADAY)**  
**Program (afternoon)**

<b>Saturday, 6 October, 2007</b> (Gebäude MA (Mathematik) / Building MA (Mathematics), Straße des 17. Juni 136)						
14.15 h	<b>Keynote Speech (Room MA 001)</b> <b>Steven Gabriel (University of Maryland): Modeling Infrastructure and Network Industries: Theory and Applications</b> Chair: Christian von Hirschhausen (TU Dresden, DIW Berlin)					
15.00 h	<b>Electricity 1 (Room MA 041)</b> Chair: Willems (Tilburg University, K.U. Leuven) Smolira / Kaleta / Toczyłowski (Warsaw University of Technology): <i>Intra-day Power Market Balancing with Network Constraints Cost Allocation</i> Schober (U. Duisburg-Essen): <i>Regulatory Benchmarking and Cost-Standardization in Germany</i> Nabe (Ecofys Germany GmbH) et al.: <i>High Capacity Offshore Networks for Collective Wind Farm Connections</i> Katzen (Frontier Economics): <i>Congestion within the German Transmission Grid – Can Power Storage be a Substitute for Transmission Investments</i>	<b>Telecommunication (Room MA 042)</b> Chair: Mitusch (TU Berlin, WIP) De Bijl (CBP Netherlands): <i>Innovation, Convergence and the Role of Regulation in the Netherlands and Beyond</i> Marcus (WIK Consult GmbH): <i>Interconnection in an IP-Based NGN-Environment</i> Hori (Ritsumeikan University) / Mizuno (Kwansei Gakuin University): <i>Competition Schemes and Investment in Network Infrastructure under Uncertainty</i> Toman (EE&MC GmbH): <i>Market Definition of the Market for Broadband Transmission Services, its Impacts on Competition and the Consequences for Regulation</i>	<b>Air: Alliances (Room MA 043)</b> Chair: Niemeier (Bremen Univ. of Appl. Sciences) Koch (Lufthansa): <i>Opportunities and Limitations to Vertical Alliance Partnerships between Airports and Airlines</i> Wiener (Steer Davies Gleave): <i>Airline Codeshares and Competition</i> Last (Strata): <i>Factors Hampering Intermodal Alliances</i>	<b>Transport and Energy Modeling (Room MA 141)</b> Chair: Brenck (IGES Institute) Korzhenevych (Christian-Albrechts-University Kiel) et al.: <i>Testing the European-Wide Spatial Equity and Efficiency Impacts of the Transport Priority TEN's</i> Yegorov (Institute for Advanced Studies Vienna, U. of Vienna): <i>Dynamics of Spatial Infrastructure with Application to Gas and Forest</i> Guseynov / Berezhnuy (U. of Latvia): <i>On one Inverse Problem for Traffic Flow on the Multilane Road</i> Jäkel (TU Berlin, WIP) / Brenck (IGES Institute): <i>An Economic Assessment of the Brenner Base Tunnel</i>	<b>Gas (Room MA 142)</b> Chair: Holz (DIW Berlin) Stronzik (WIK) / Neumann (TU Dresden): <i>Is the Theory of Storage Valid for the European Gas Market?</i> Bolle / Ruban (European U. Viadrina Frankfurt (Oder)): <i>Competition and Security of Supply: Let Russia Buy into the European Gas Market!</i> Yegorov (Institute for Advanced Studies Vienna, U. of Vienna) / Wirtl (U. of Vienna): <i>Energy Relations between Russia and EU with Emphasis on Natural Gas</i>	<b>Highways (Room MA 144)</b> Chair: Klatt (TU Berlin) Madanat / Anani (U. of California, Berkeley): <i>Revisiting the Estimation of Marginal Cost of Highway Pavement Maintenance</i> Doll / Schade (Fraunhofer ISI): <i>Infrastructure Quality Measures: Trans-Atlantic Analysis and Pilot Indicators for Germany</i> Benfratello (U. of Turin) / Iozzi (U. of Rome) / Valbonesi (U. of Padua): <i>Technology and Incentive Regulation in the Italian Motorways Industry</i> Milotti (Bocconi University) et al.: <i>The Innovative Methods of Funding Transport Infrastructures in Italy</i>
16.45 h	<b>Coffee &amp; Tea, Refreshments, Snacks</b>					
17.00 h	<b>Electricity 2 (Room MA 041)</b> Chair: Leuthold (TU Dresden) Sanin (U. C. de Louvain): <i>Market Design in Wholesale Electricity Markets</i> Glachant / Perez (University Paris-Sud 11): <i>Achieving Electricity Competitive Reforms as a Long-Term Governance Structure Problem</i> Bjørndal (NHH Bergen) et al.: <i>Locational Pricing in the Nordic Electricity Market</i> Cullmann (DIW Berlin) / Hess (TU Dresden) / Pavel (Indecon Consulting): <i>Potential Gains from Mergers among Electricity Distribution Companies in Germany</i>	<b>Railways (Room MA 042)</b> Chair: Peter (TU Berlin, WIP) Carrillo Murillo / Liedtke (U. of Karlsruhe): <i>A Contract Approach to Understand Decision-Making in Hinterland Transportation</i> Tanczos / Meszaros / Torok (Budapest Univ. of Technology and Economics): <i>Rail Infrastructure Costs in Hungary</i> Brenck (IGES Institute) / Peter (TU Berlin, WIP): <i>Contracts for Regional Rail Passenger Services in Germany: Some Empirical Evidence</i>	<b>Air: Efficiency and Competition (Room MA 043)</b> Chair: Czerny (TU Berlin, WIP) Clougherty (WZB, CEPR-London) / Zhang (U. of British Columbia): <i>Domestic Rivalry and Export Performance: Theory and Evidence from International Airline Markets</i> Hancioglu (Humboldt University Berlin): <i>Competition between Airports and Regulatory Issues: A Reflection on some European Cases</i> Fuhr / Beckers (TU Berlin, WIP, CNI): <i>Contracts, Financing Arrangements, and Public Ownership – An Empirical Analysis of the US Airport Governance Model</i>	<b>Transport and Environment (Room MA 141)</b> Chair: Hirschhausen (TU Dresden, DIW Berlin) Winter (TU Berlin, WIP): <i>The Potential for Road Pricing in German Cities – A Welfare Analysis of Different Charging Regimes</i> Frisoni (Steer Davies Gleave): <i>Acceptability of Road Pricing Policies: Are Tradable Permits the Only Viable Alternative?</i> Abrell (TU Dresden): <i>Transportation and CO<sub>2</sub> – A CGE Analysis</i> Elmer (TU Berlin, WIP): <i>The Economics of Vehicle Emission Standards - Overview and Application to Europe</i>	<b>Water (Room MA 142)</b> Chair: Luis-Manso (EPFL) Schleich / Hillenbrand (Fraunhofer ISI): <i>Determinants of Residential Water Demand in Germany</i> Störmer (Eawag Cirus) et al.: <i>New Modes of Strategic Planning for Sustainable Infrastructure</i> Frehaut (U. of Nancy): <i>Institutional Determinants of Private Participation in Infrastructure in Developing Countries</i> Luis-Manso / Finger (EPFL) / Ménard (U. of Paris-Sorbonne): <i>Reform, Risk Management, and Regulatory Governance</i>	
19.00 h	<b>Reception, Conference Dinner</b> (Filmbühne am Steinplatz: Hardenbergstraße 12, 10623 Berlin)					

**Contact / Registration:**

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