

Trans-Atlantic INFRADAY Conference on Applied Infrastructure Modeling and Policy Analysis “Infrastructure Resilience”

Friday, 9 November 2012

Resources for the Future
1616 P Street NW, Washington, DC 20036 USA
1st Floor Conference Center

(Please also note FERC Pre-Conference Event on Thursday, 8 November 2012, below)

Program

8.00 – 8.45 h	Registration & Continental Breakfast		
8.45 – 9.00 h	Opening Address (Rooms A-C) Steven A. Gabriel, University of Maryland, Conference Chair Christian von Hirschhausen, TU Berlin / DIW Berlin, Conference Co-Chair		
9.00 – 9.45 h	Keynote Speech (Rooms A-C), <i>Chair: Christian von Hirschhausen</i> George S. Hawkins (District of Columbia Water and Sewer Authority, USA) <i>TBD</i>		
9.45 – 10.15 h	Coffee Break		
10.15 – 12.15 h	<p>Equilibrium Modeling (Room TBD)</p> <p>Chair: Daniel Huppmann</p> <p>Par Holmberg (Univ. of Cambridge) and Bert Willems (Tilburg Univ.): <i>Relaxing Competing through Speculation: Committing to a Negative Supply Slope</i></p> <p>Sauleh Siddiqui (Johns Hopkins Univ.): <i>An Efficient Algorithm for Solving Equilibrium Programs with Equilibrium Constraints</i></p> <p>Aswin Kannan and Uday V. Shanbhag (Univ. of Illinois): <i>Hierarchical Cournot games with financial call options</i></p> <p>Frederic H. Murphy (Temple Univ.), Steven O. Kimbrough (Univ. Of Pennsylvania) and Yves Smeers (Univ. de Louvain): <i>Epistemology and Oligopoly Theory</i></p>	<p>Renewable Resources (Room TBD)</p> <p>Chair: Andrew Blohm</p> <p>Chalida U-tapao, Steven A. Gabriel, (Univ. of Maryland) Christopher Peot and Mark Ramirez (DC Water): <i>A Stochastic, Multi-objective, Mixed-integer Optimization Model for Management of Wastewater Derived Energy</i></p> <p>Andrew Blohm and Elisabeth Gilmore (Univ. of Maryland): <i>An Economic and Environmental Assessment of Long Distance Transport Alternatives of Stranded Energy from an OTEC Installation</i></p> <p>Christopher Peot (DC Water): <i>Reinventing Biosolids: Resource Recovery at the Blue Plains Advanced Wastewater Treatment Facility</i></p> <p>Yilu Feng, Kyle L. Brubaker, (Univ. of Maryland) Salil M. Kharkar, Mark Ramirez (DC water): <i>Analysis of Electrical Energy Use at a Municipal Wastewater Treatment Plant</i></p>	<p>Electricity Markets (Room TBD)</p> <p>Chair: Matt Woerman</p> <p>Goran Vojvodic (George Washington Univ.): <i>Estimating the Operating Cost at Pumped - Storage Hydroelectric Power Plants by Exploiting Structural Similarities of Energy Markets and Stochastic Optimization</i></p> <p>Amy O'Mahoney, Eleanor Denny (Trinity College Dublin): <i>Electricity Prices and Generator Behaviour in Gross Pool Electricity Markets</i></p> <p>Matt Woerman, Dallas Burtraw, Karen Palmer, Anthony Paul and Blair Beasley (Resource for the Future): <i>Reliability in the Electricity Industry under New Environmental Regulations</i></p> <p>Deepak Sharma (Univ. of Baltimore), Rob Young and Qingbin Cui (Univ. of Maryland): <i>Innovative Billing Mechanism for Reducing Energy Consumptions</i></p>
12.15 – 1.15 h	Lunch		
1.15 – 2.00 h	Keynote Speech (Rooms A-C), <i>Chair: Steven A. Gabriel</i> Elise Miller-Hooks (University of Maryland, USA) <i>Resilience in Urban Infrastructure Systems</i>		
2.00 – 4.00 h	<p>Energy Market Modeling (Room TBD)</p> <p>Chair: Sauleh Siddiqui</p> <p>Andrew Liu (Purdue Univ.) and Yihsu Chen (Univ. of California, Merced.): <i>Price Containment in Emissions Permit Markets and Its Impact on Capacity Investments</i></p>	<p>Air Traffic and Road Transportation (Room TBD)</p> <p>Chair: Jeremy Eckhause</p> <p>Johan Nystrom (VTI, Stockholm): <i>Fixed Price or Cost-plus? From Binary Definitions to a Continuum</i></p>	<p>Natural Gas (Room TBD)</p> <p>Chair: Hakob Avetisyan</p> <p>Hakob G. Avetisyan and Steven A. Gabriel (Univ. of Maryland): <i>Analyzing Carbon Pricing Effects on Global Natural Gas Markets: Suppliers' and Consumers' Perspective</i></p>

	<p>Renato Rodrigues and Pedro Linares (Comillas Pontifical Univ.): <i>Introducing Electricity Load Level Detail into a CGE</i></p> <p>Franziska Holz, Clemens Gerbaulet, Christian von Hirschhausen, et al. (DIW Berlin, TU Berlin): <i>Combining Energy Networks in Europe</i></p> <p>Daniel Huppmann and Clemens Haftendorf (DIW Berlin): <i>Strategic Behaviour in the Crude Oil Market One - stage vs. Two - stage Oligopoly Models</i></p>	<p>James Jones (Univ. of Maryland): <i>Dynamic Sequencing and Speed Control of En Route Flights</i></p> <p>Jeremy Eckhause (Logistics management Institute): <i>Assessing the Use of Alternative Aircraft Vehicles to Address Future Capacity Shortfalls</i></p> <p>Hakob G. Avetisyan and Elise Miller-Hooks (Univ. of Maryland): <i>Impacts of Emissions Mitigation Strategies for On-Road Traffic</i></p>	<p>Marte Fodstad Kjetil T. Midthun Asgeir Tomasgard (NTNU): <i>Adding Flexibility in a Natural Gas Transportation Networks Using Interruptible Transportation Services</i></p> <p>Seksun Moryadee, Steven A. Gabriel and Hakob G. Avetisyan (Univ. of Maryland): <i>The World Gas Model Linked to an Integrated Assessment Model</i></p> <p>Seksun Moryadee, Steven A. Gabriel and Hakob G. Avetisyan (Univ. of Maryland): <i>Analysis of the U.S. Liquefied Natural Gas Exports in Natural Gas Global Markets</i></p>
4.00 – 4.30 h	Break		
4.30 – 5.15 h	Keynote Speech (Rooms A-C), <i>Chair: Christian von Hirschhausen</i> Bjørn Bakken (SINTEF, Norway) <i>Europe beyond 2020: Policy, scenarios and infrastructure modeling</i>		
5.15 – 6.00 h	Reception (TBD)		
6.30 h	Conference Dinner (Tabard Inn, 1739 N Street Northwest Washington, DC 20036)		

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<http://mepp.umd.edu/TAI2012/index.html> and <http://www.regonline.com/TAI2012>

*Note the related event:
Thursday, 8 November 2012*

FERC (Federal Energy Regulatory Commission)
888 First Street NE, Washington, DC 20426
(Details to be posted on www.regonline.com/TAI2012)
10:30 AM - 4:30 PM (Eastern Time)

"Electricity Optimization: Optimal Power System Topologies and Generation "

Chair: Richard O'Neill, Chief Economic Advisor, FERC

Francisco D. Munoz and Benjamin F. Hobbs (Johns Hopkins Univ.): *An Enhanced Benders Decomposition Approach for Large-scale Transmission Planning Under Market and Regulatory Risk*

Ramteen Sioshansi and Ashlin Tignor (The Ohio State Univ.): *Utopia Electric: Do Centrally Committed Electricity Markets Provide Useful Price Signals?*

Ross Baldick (Univ. of Texas, Austin): *Minimum Uplift Assignment of Transmission Expansion Costs to Beneficiaries*

Richard O'Neill (FERC): *Solving the AC Optimal Topology Problem from a Self-healing Smart Grid to Transmission Planning*

Saamrat Kasina, F.D. Munoz and B.F. Hobbs (Johns Hopkins Univ.): *Transmission Planning under Uncertainty and Short-term Operational Constraints*

Jonas Egerer, Wolf-Peter Schill (DIW Berlin/TU Berlin): *Infrastructure Requirements for Regional and Inter-Temporal Integration of Fluctuating Renewable Generation in Germany*

Pao-Yu Oei, Andreas Schroeder, Maximilian Bracke, and Clemens Gerbaulet (DIW Berlin/TU Berlin): *Electricity Generation and Transmission Capacity Expansion: An application to The Central European Region*

**Note the related event:
Saturday, 10 November 2012
Hiking trip**

Contact: Seksun Moryadee, smoryade@umd.edu

Great Fall Hiking Trip

November 10, 2012



Explore one of the nation's first canals, see the Great Falls of the Potomac, and enjoy a hike along Mather Gorge's dramatic clifftops.

Sign Up: You may need to sign up during TAI conferences **Nov. 8-9, 2012**. We will arrange transportation and let you know before the end of the conference.

Trail: We will hike along the blue-blazed River Trail which offers awesome views of the waterfall. This is an easy trail (about 3 miles) but sandy sometimes muddy along the river's edge. We also plan to visit the upper Canal Trail, the head of the falls, and the Aqueduct Dam--a six-foot manmade structure built in the 1850s which still supplies water to the Washington area.

Time: We expect to have two hikes : **Group A** for early risers **830-1130 am**, **Lunch break: 1130am-1pm** , and **Group B** start from **1-4pm**.

What to bring : (You may need to solve Knapsack problem) lunch, snack, camera, water, and park fees (\$5 per vehicle)

Location: Great Fall National Park 9200 Old Dominion Dr. Mclean VA

Point of Contact : Seksun Morvadee Tel 1.203.710.6284 E-mail smorvade@umd.edu

