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Dr. Cynthia Barnhart Presents:

Congestion and Delays in the National Air Transportation System

Abstract: Flight delays cost the U.S. economy billions of dollars annually. The cause, in large part, can be traced to airline scheduling practices and competition. Airline competition leads to increased flight frequencies, resulting in increased congestion levels and extensive delays in the U.S. National Aviation System. In this talk, flight and passenger delays will be quantified, and their contribution to delays of airline competition will be estimated. We establish the connection between competition and congestion, and describe congestion mitigation strategies and policies that can lead to significant reductions in flight and passenger delays, and significant improvements in airline profits.

Cynthia Barnhart, at MIT, is the Ford Professor of Engineering and Associate Dean in the School of Engineering, Professor of Civil and Environmental Engineering and Engineering Systems, and director of Transportation@MIT. Professor Barnhart is a member of the U.S. National Academy of Engineering and has also served at MIT as Interim Dean of the School of Engineering, and co-director of both the Center for Transportation and Logistics and the Operations Research Center. She has served in editorial positions for Operations Research, Transportation Science, and Management Science. She is the former president of INFORMS, of the INFORMS Women in Operations Research/Management Science Forum and of the INFORMS Transportation Science and Logistics Society. Professor Barnhart has been awarded the INFORMS Award for the Advancement of Women in Operations Research and Management Science, the Franz Edelman prize for excellence in operations research and management sciences, and a Presidential Young Investigator Award from the National Science Foundation.

Monday, October 3, 2011 - 3:30 PM – 4:30 PM  
McArthur Engineering Annex – Room MEA202, Coral Gables  
Light Refreshments will be provided  
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