



# Distinguished Lecture Series

**Dr. Nicholas P. Jones**

Dean, Whiting School of Engineering  
Johns Hopkins University



***Thursday, March 31, 2005***

***1:00 pm—2:00 pm***

***Spencer Engineering Building***

***Room 1059***

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## **Long-Span Bridge Performance Assessment using Full-Scale Measurements**

Following the well-known collapse of Tacoma Narrows Bridge in 1940, many researchers have attempted to identify the mechanisms associated with wind-induced vibrations of long-span bridges and their component elements. While very sophisticated response prediction techniques have been devised over the years in the field of bridge aerodynamics, relatively few long-term studies have been carried out in prototype structures to evaluate the performance of these techniques.

This presentation will summarize the findings from various techniques, as well as describing examples of interesting features of individual vibration events.

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