AAPT 2014

Alan Scott

Physics Department University of Wisconsin-Stout Wisconsin's Polytechnic University

Fatal Friction Flaw









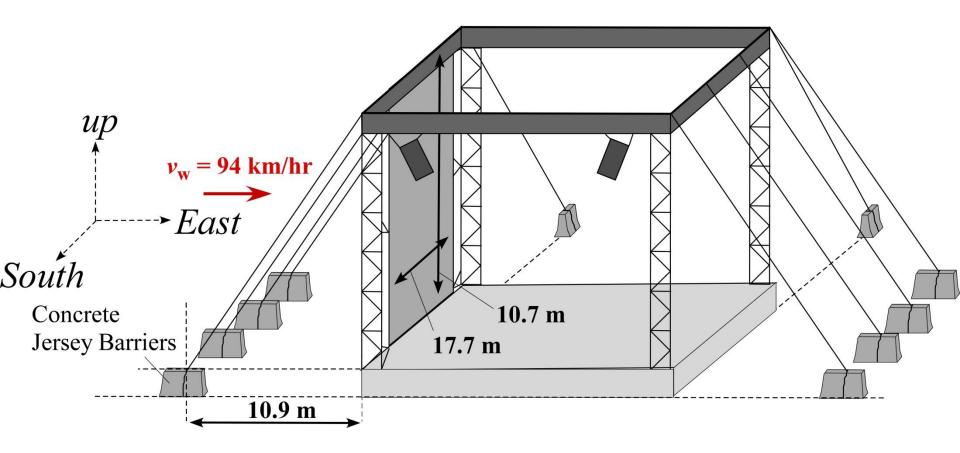
Holmquist, J., 2013, *Early morning winds, rain cause damage around New Richmond*, Pierce County Herald, June 23

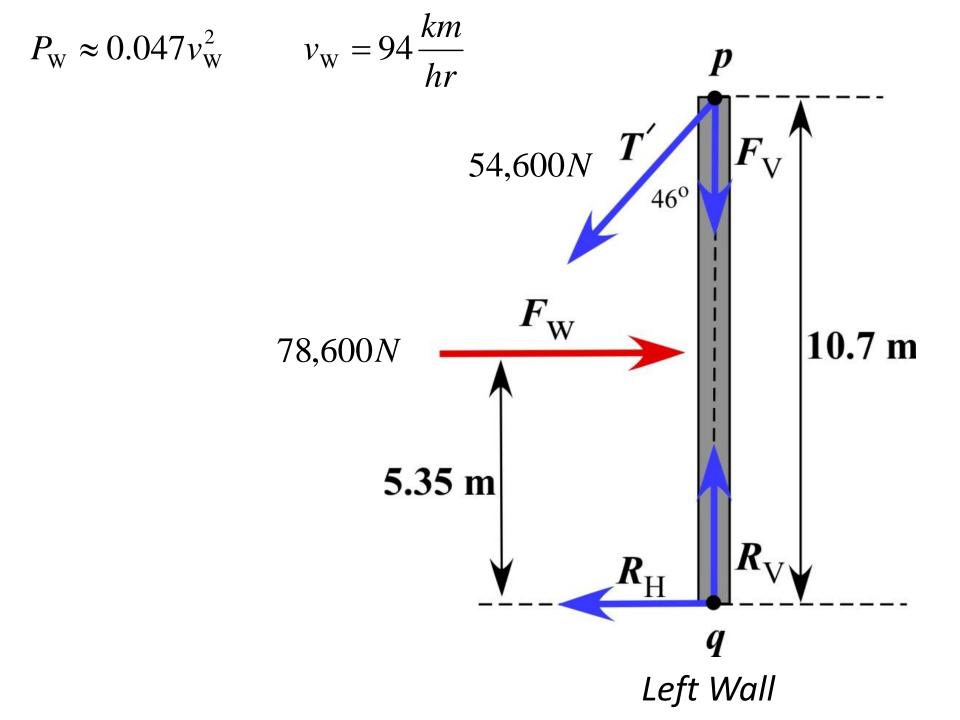


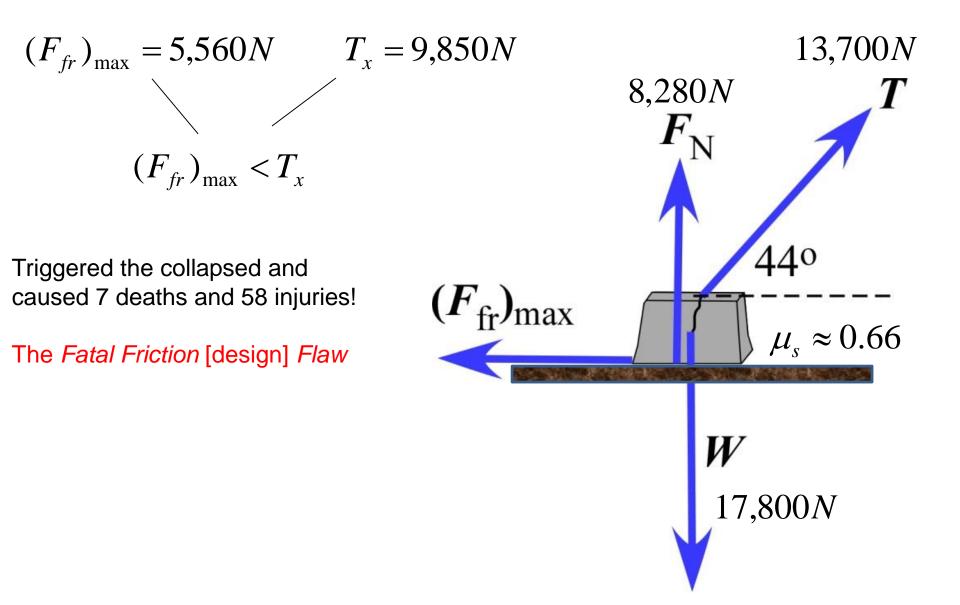


 $P_{\rm W} \approx 0.047 v_{\rm W}^2$

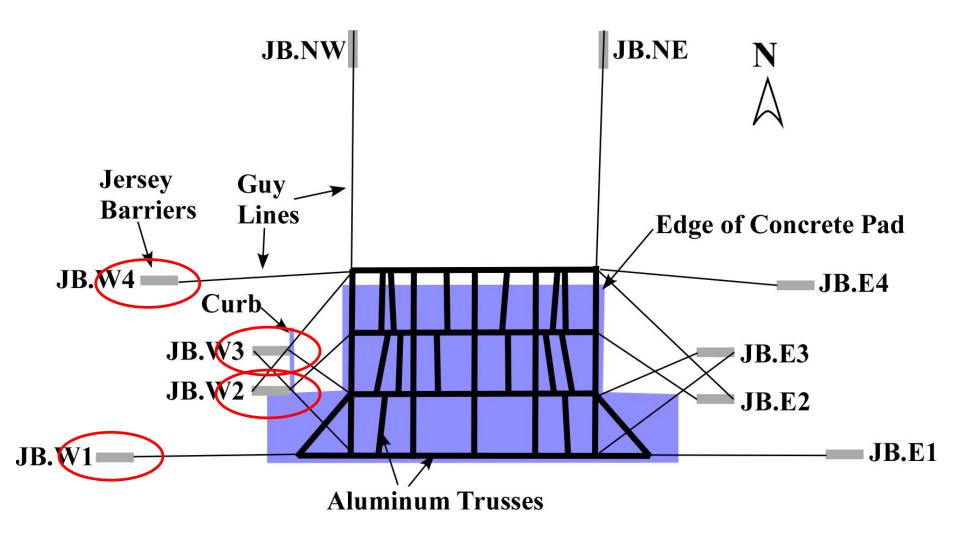
Simplified Model for An Introductory Physics Case Study







Looking Down Upon The Structure



	(ATV	
the second se		
		INDIANA STATE FAIR COMMISSION COLLAPSE INCIDENT Reactive Component/deelBalter Flock 57 Torritor Tomasetti Distriction (1999) Theorem (1999) T





	NO.
	Mr-
	20
Arrest	1005-00
an Bai	and the second
NANA STATE FAIR CON The Component Kertilikation 6 65 Theorem Theorem 2010	10-0
Thornton Tom	X
CIDENT insetti	-



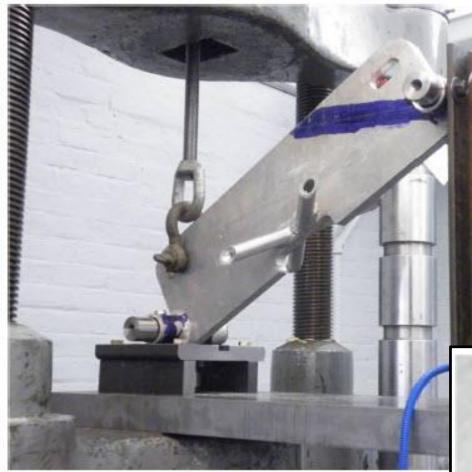


Fig. 6 Fin plate mechanical test setup



Fig. 8 Failure of fin plate F4 EAST

Thornton Tomasetti, Inc.

Key Findings

- Lateral Load
- Falls Short of Most Standards
- Straps, Ratchet, and Cables
- Fin Plates







In summary...

Can't withstand 109 km/hr wind?



Insufficiently secured or built.