Conference on Falls From Commercial Vehicles

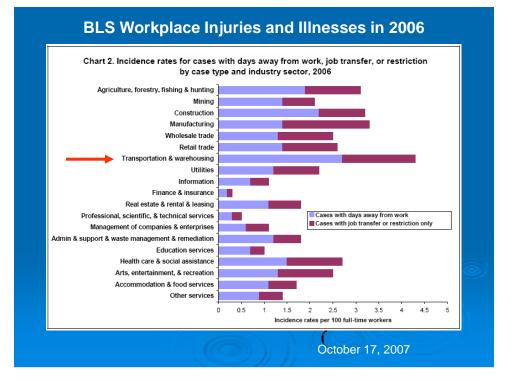
Liberty Mutual Research Institute for Safety July, 2008 1.5 days

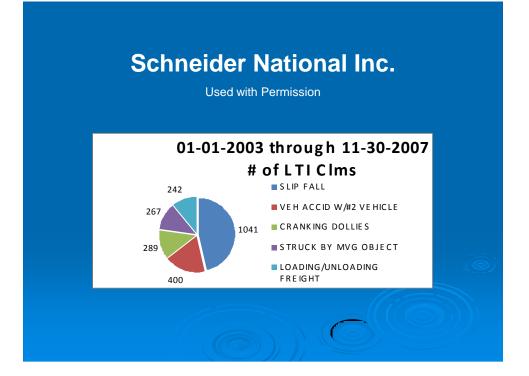
The Problem - Data Analysis	OEM Perspective	
Loss Data	FMCSA Requirements	
Task Based Loss Analysis	Aerodynamics	
Entering and Exiting Cab	In-Cab Ergonomics	
Accessing Catwalk Accessing a Trailer Walking around Tractor / Trailer	Researcher Perspective	
	Roundtable Discussion	
Liberty Mutual Perspective	Current Control Strategies	
Tribology	Existing Design Constraints /	
Anthropometry	Opportunities	
Three Points of Contact		
Footwear	Fantasy Design Brainstorm	
	& Workshop	

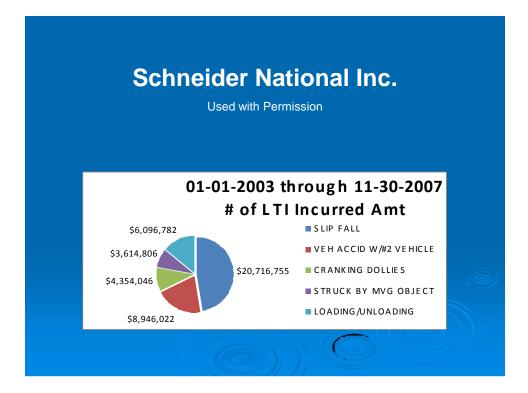
Participants				
Oldcastle	Stock Building	WA State L&I	Swift	
Chief Industries	Supply	Sharp	Transportation	
U.S. Xpress	UPS	White Rose	Coca-Cola	
Summitt	Wal-Mart	Penske Truck	Kraft Foods	
Trucking	Daimler Trucks	Black Horse	Navistar	
LSG/Sky Chefs	NA	Carriers	PGT Trucking	
Superior Bulk	UMTRI	Dominion	Texas Disposal	
Novelis	Wilson Trucking	Ryder	Systems	
Pride Transport	Schneider	Assoc. Grocers	Hartt	
Land Span	National	of NE	Transportation	
Bonsal	NIOSH	Volvo Trucks NA	LaFarge NA	
American	ATRI	Mohawk	Allied Building	
Assoc.	Wolseley	Industries	Prod.	
Wholesalers			Univ. of	
Herzig Hauling			Waterloo	

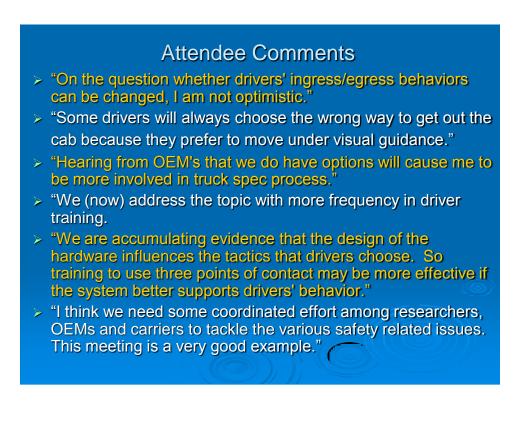
LMRS Then and Now











Attendee Comments (Cont'd)

- > "We have increased our awareness training and observation of drivers at terminals and customer facilities."
- We will be using the subject material for additional training and supplying our fleet buying team the information to make informed decisions on future purchases with respect to vehicle access systems."
- * "Understanding why the best systems perform well, and generalizing that information into design specifications and assessment tools, may get us a long way without radical (i.e., expensive) changes."

Conclusions

- > Dramatic lack of standardization of access / egress systems.
- > Access / egress systems design doesn't encourage trained behaviors.
- > Designers not aware of extent of problem.
- > Users not aware they can spec improvements.
- > Changes in access / egress systems may drive even more lawsuits.
- > It's a human factors problem.
- > Presented to Freightliner design engineering staff, September, 2008.

Recommendations

- > ANB Synthesis Report on Current State of Falls From Commercial Vehicles Research
- > ANB 70 Recommendation that ATRI Initiate Falls From Commercial Vehicles Research
 - Don Osterberg, Schneider, is Research Committee Director
- ANB 70 Driver Health & Welfare Subcommittee Include Driver & Worker Injury in its Scope