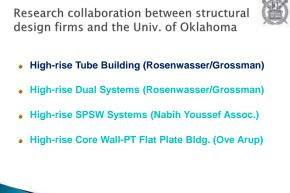
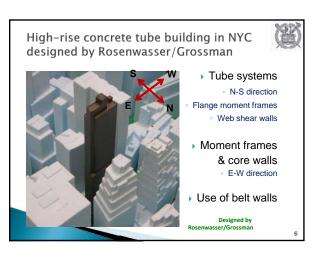
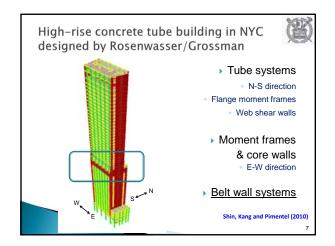


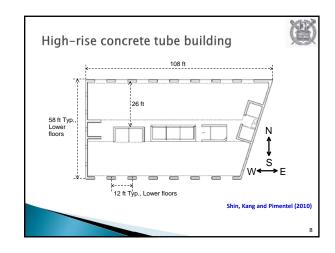
Practical Research in Tall High-Rise Buildings in the U.S. Thomas Kang, Ph.D., P.E. Assistant Professor Seoul National University

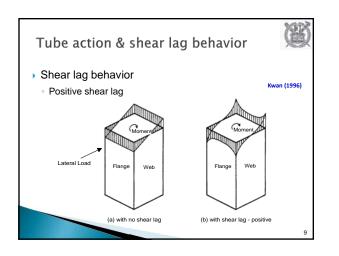


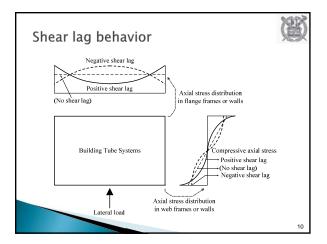


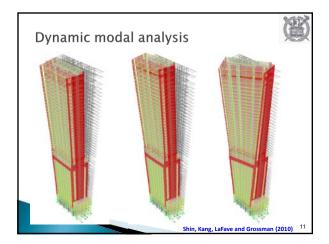


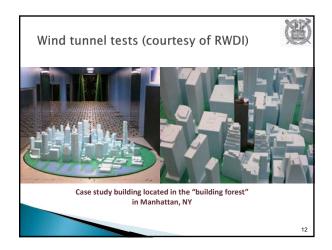


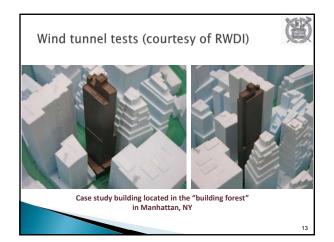


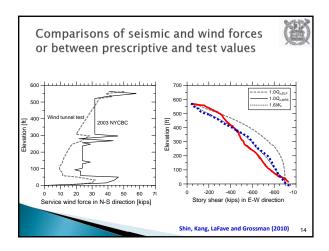


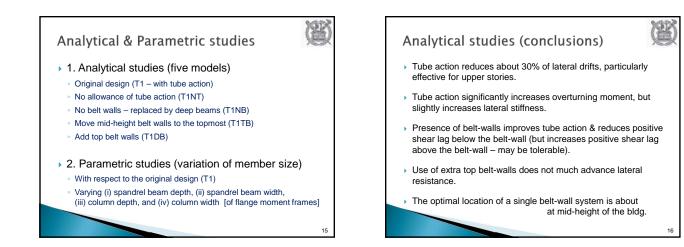


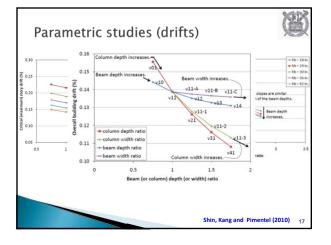


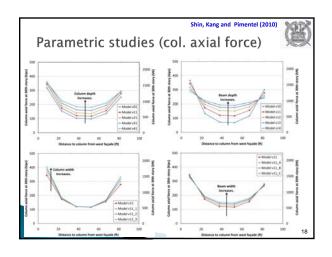


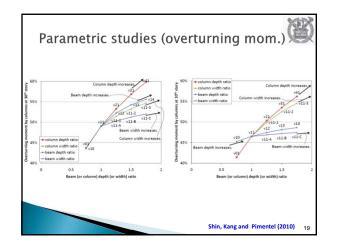


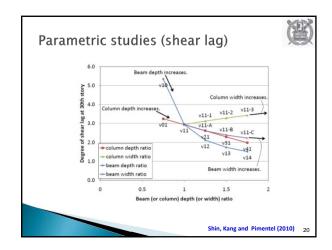












Parametric studies (conclusions)

- > To reduce drifts, increase column depth & column width.
- > The impact of beam depth or width on drifts is minimal.
- To increase overturning moment, increase column depth & beam depth (above the belt wall) or column width (below the belt wall).
- Upper stories (80% taken by flange); lower stories (40%)
- Tube action is modest for low-rise tubular structures.
- To reduce shear lag in the flange frame, increase beam depth
 & column depth (in contrast, column width adversely affects).

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