

Proudly Presents...

### Pat McFadden & Peter Hagen



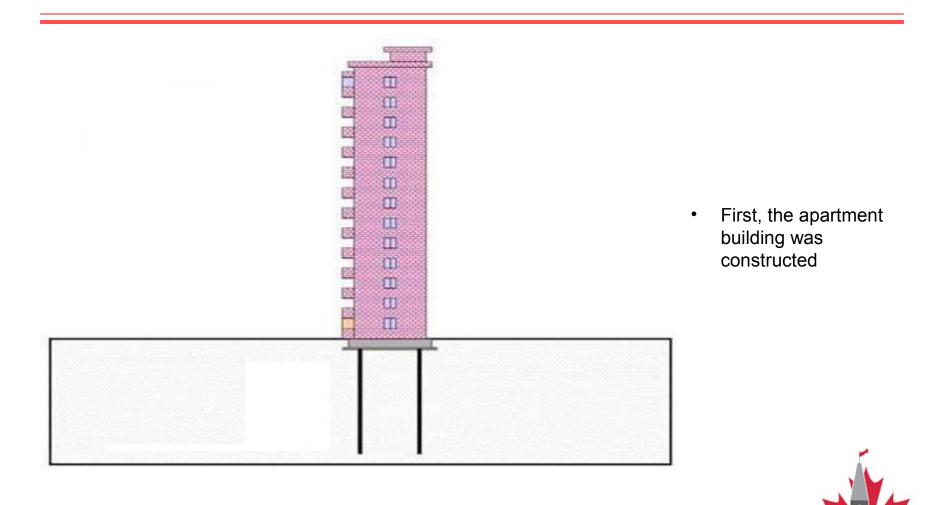


A Dramatic Example of the Effects of Construction Defects

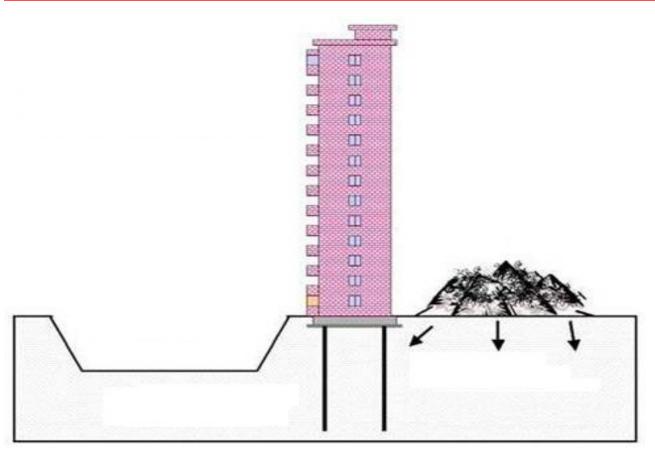


- Shanghai, China on June 27<sup>th</sup>, 2009
- Lotus Riverside residential complex
- Yes, that is actually a 13 story building lying on its side
- The complex fell due to errors in construction



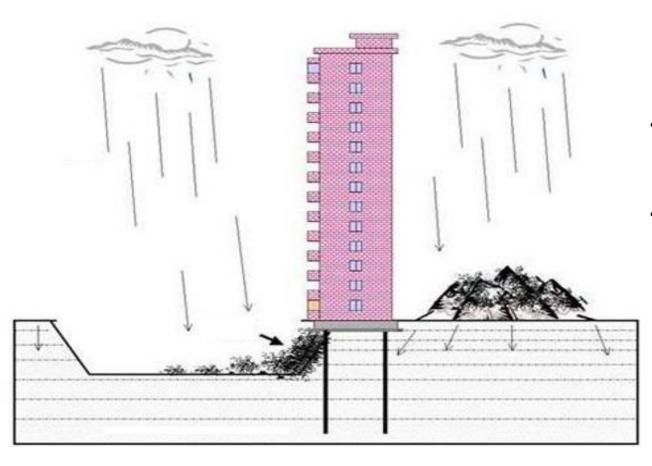


Capital ConneXions



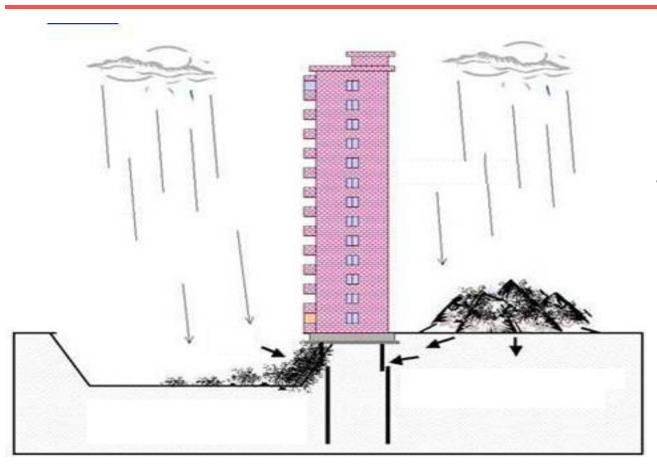
- Then the plan called for an underground garage to be dug out on the south side to a depth of 4.6m
- The excavated soil was piled up to the height of 10m on the north side of the building, putting pressure on the ground below it





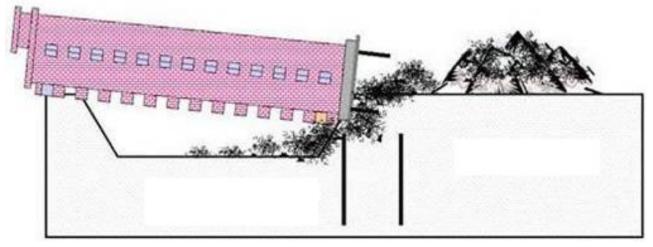
- Heavy rains caused water to seep into the ground
- This weakened and eroded the soil on the sides of the proposed parking garage





 As a result of the uneven lateral pressure, the building began to shift and tilt.





- The result was a net lateral pressure of 3,000 tonnes from north to south
- This pressure was greater than what the pilings could tolerate and they therefore snapped
- Thus was born the eighth wonder of the world

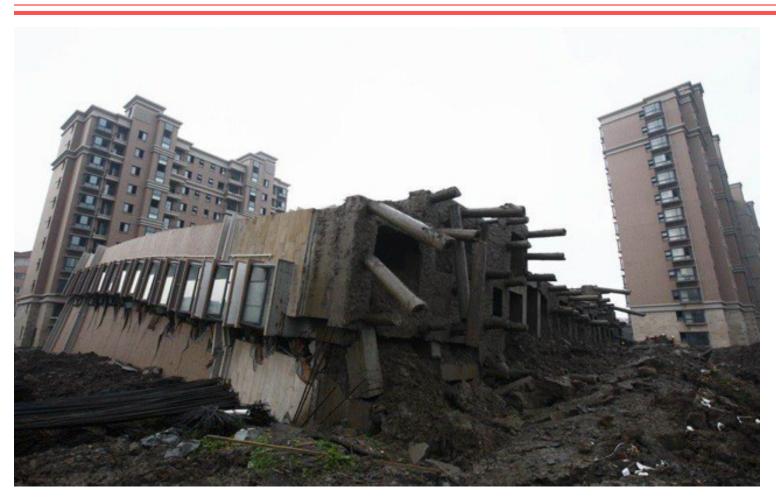












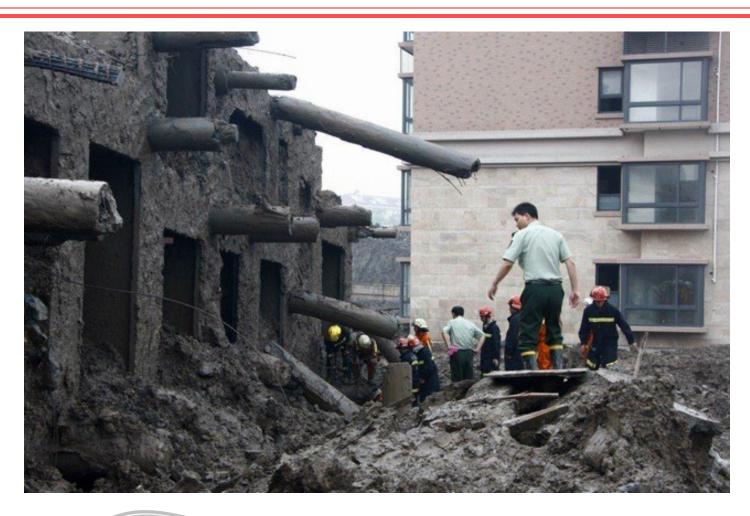












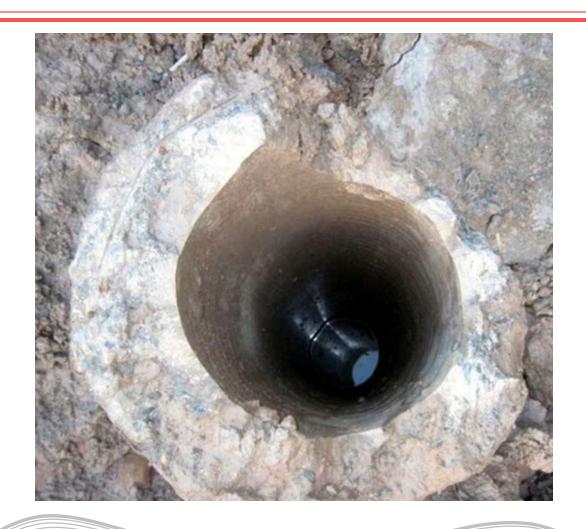
















13 Stories, on grade, with no basement, and tied down with hollow pilings with no rebar and significant uneven lateral pressure. The results are no surprise.







# Thank you for attending the Ottawa Capital Connexions Conference

