



## AISC Webinars

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<https://www.aisc.org/steeldaymovie2018>



## Course Description

### Leaning Out

September 26, 2018

The documentary film, *Leaning Out*, is the story of the acclaimed structural engineer Leslie E. Robertson. Told by the guru of high-rise structural design himself and those closest to him, with voices of visionary architects and engineering experts, the film recounts his storied career pioneering tall landmark structures, including New York's World Trade Center, and highlights his unique perspective on innovative uses of steel and wind engineering.



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Stronger.  
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## Learning Objectives

- Describe the structural / architectural innovations of the IBM Building (a.k.a. United Steelworkers Building), in Pittsburgh, and the IBM Tower, in Seattle, that shaped the World Trade Center design.
- Explain how the engineers addressed the wind and dynamic effects on the World Trade Center towers.
- Name characteristics of the structural design of the World Trade Center towers that prolonged structural stability during the events of September 11, saving lives.
- List the main structural features of the Shanghai World Financial Center that contributed to the relatively lightweight design.



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