

# LERA

FOR IMMEDIATE RELEASE

## **Lotte World Tower, designed by LERA, Officially Named Fifth Tallest Building Worldwide by CTBUH**

*LERA is the Structural Engineer for the Supertall Tower*

NEW YORK, NY, April 03, 2017 — Acclaimed structural engineering firm, Leslie E. Robertson Associates (LERA), is pleased to announce that the Lotte World Tower, located in Seoul, South Korea, is officially named as the fifth tallest building in the world, according to criteria established by the Council on Tall Buildings and Urban Habitat (CTBUH). LERA is the structural engineer for the 555-m (1,820-ft), 123-story tower.

SawTeen See, P.E., Managing Partner at LERA, led the structural design team for the innovative structure of the supertall tower. Key features include:

- A primary lateral load and gravity system consisting of 8 concrete mega-columns, outrigger trusses, belt trusses, and concrete core walls
- A curved diagrid “crown” structure, supported by a series of outriggers and belt trusses
- Long spans of up to 24.5 m (80 ft) between mega-columns
- Spandrels that cantilever 14 m (46 ft) beyond the mega-columns at building corners, bending to follow the curved floors
- The world’s highest glass-bottomed observation deck at 500 m (1,640 ft) on the 118<sup>th</sup> floor
- A concert hall with seating for up to 2,000 people

“As with our many significant projects, robustness and redundancy were foremost considerations in designing the Lotte World Tower,” stated Ms. See. “We are proud to have achieved the fifth tallest building in the world while at the same time meeting our exacting standards.”

LERA is also the structural engineer for the Shanghai World Financial Center in Shanghai, China, the ninth tallest building in the world at 492 m (1,614 ft). In addition, LERA is the structural engineer for Merdeka PNB118 in Kuala Lumpur, Malaysia, now under construction, which will rise to 630 m (2,066 ft) upon completion.

Lotte World Tower’s owner, Lotte Group, invited Ms. See, along with Leslie E. Robertson, to the grand opening ceremony on April 3rd, coinciding with Lotte Group’s 50th anniversary. The event featured a world-class fireworks display that was set off directly from the tower.

### **About LERA**

Leslie E. Robertson Associates (LERA) is an M/WBE structural engineering firm providing services to architects, owners, contractors, and developers. Since their founding in 1923, they have designed numerous landmark projects across the world and have established a strong reputation for design and technical excellence. Today, LERA’s talented professionals continue the tradition of creating innovative yet constructible, and economical structural designs. Headquartered in New York City, LERA also operates branch offices in Mumbai, Shanghai, and Hong Kong.

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