

# SEOKKWON JANG, Ph.D., P.E., M.ASCE

## Associate Partner

As Project Director/Manager, Dr. Jang provides detailed guidance on the analysis and development of the structural design and coordinates structural engineering services with the Owner, Architect, Services Engineer and Contractor. He works closely with LERA's other Project Director and Partner-in-Charge and with the staff of other firms.

**Professional Education** Lehigh University, Ph.D. Structural Engineering, 2003  
Univ. of Minnesota, M.S. Structural Engineering, 1995

**Professional Experience** LERA Consulting Structural Engineers, 2004 to Present  
ATLSS Research Center, Lehigh University, 1999 to 2004



### Office Buildings/Mixed-Use

Lotte World Tower, Seoul, Korea  
Hyundai Global Business Center, Seoul, Korea  
Prototypical Super High-Rise Bldg. System Study, Korea  
Seoul Lite-Spire Design & Erection Method, Seoul, Korea  
4 World Trade Center, New York, NY  
Corporate Headquarters, Mumbai, India  
Bitexco Financial Tower, Ho Chi Minh City, Vietnam  
Agribank Towers, Hanoi, Vietnam  
Hyderabad Office Tower, Hyderabad, India

### Hotel/Residential

JW Marriott Hotel & Convention Center, Hanoi, Vietnam  
Monument Residential Tower, Reno, NV  
KLCC Mixed-Use Development, Kuala Lumpur, Malaysia  
Horizen Hotel, New York, NY

### Security Projects

Federal Facility Security Enhancement, Building 1 & 2  
Office Tower, New York, NY  
Convention Center, New York  
Cultural Facility, Pennsylvania

### Convention Centers/Performing Arts Facilities

Jacob K. Javits Convention Center Expansion, NY, NY  
JW Marriott Hotel & Convention Center, Hanoi, Vietnam

### Aviation/Transportation Facilities

McCarran Airport Expansion – NE Wing, Las Vegas, NV  
Incheon International Airport Terminal 2, Incheon, Korea

### Museums/Galleries

Museum of Islamic Art, Doha, Qatar  
Johnson Museum of Art Addition, Ithaca, NY

### Inspections/Restoration

WTC Freedom Tower, Existing Slab Survey, New York, NY  
Poongsan Head Quarter Building, Seoul, Korea

### Educational Facilities/Laboratories/Technical Bldgs.

John Jay College Expansion, New York, NY

### Peer Review/ VE

1 WTC, Freedom Tower, New York, NY  
KLCC Office Tower, Kuala Lumpur, Malaysia  
Busan Lotte Tower, Busan, Korea  
Waterfront Integrated Resort, Colombo, Sri Lanka  
Wembley Stadium, London, United Kingdom  
432 Park Ave, Residential Tower, New York, NY  
107 West 57<sup>th</sup> Street Residential Tower, New York, NY  
Queens Plaza Residential Redevelopment, New York, NY

### Professional License/Award

Professional Engineer – USA  
Architectural Engineering License – Korea  
Excellence in Structural Engineering Award, The National Council of Structural Engineers Associations, 2014

### Professional Presentations

- "JW Marriott Hotel, Hanoi: Dragon Hotel" *Architectural Institute of Korea*, Oct. 2016, Busan, Korea
- "Transition of Building Design: Past, Now & Future," *Daewoo Institute of Construction Technology*, 2008, Gyeonggi-do, Korea
- "Database-Assisted Design for Wind Effects on Z-shaped Purlins," *The 2003 ASCE/SEI Structures Congress & Exposition*, ASCE, Seattle, WA
- "Ultimate Strength Estimates of Cold-Formed Square Columns Subjected to Eccentric Axial Force", *Proc., Korean Architectural Association (1993, KAA)*, Seoul, Korea

### Professional Publications/ Talks

- "Material Performance Evaluation and Super-tall Building Applicability of the 800 MPa High-strength Steel Plates for Building Structures," *Int. Journal of Steel Structures*, Vol. 14, Issue 4, pp.889-900, Dec. 2014.
- "Application of High Performance Steel to Construction over Railroad Tracks and Expressways," POSCO Global R&D Center, Seoul, 2014
- "JW Marriott Hanoi," *ENR New York Magazine*, 2011.
- "Box-Column Hull Girder Strength Under Combined Compression and Shear Forces – Experimental Study/ Parametric Analytical Study," ATLSS Report No.06-04/ No.06-10, Lehigh University, Bethlehem, PA, 2006.
- "Compressive Strength of AL-6XN Stainless Steel Triple-Cell Box Columns," ATLSS Report No.05-24, Lehigh University, Bethlehem, PA, 2005.
- "Achieving safer and more economical buildings through database-assisted, reliability-based design for wind," *Journal of Wind Engineering & Industrial Aerodynamics*, Vol. 91, Issues 12-15, 2003.
- "Database-Assisted Wind Load Capacity Estimates for Low-Rise Steel Frames," *J. Str. Engrg*, ASCE, Vol.128 (12), pp.1594-1603, 2002.
- "Compressive Strength of AL-6XN Stainless Steel Plates and Box Columns," Final Report of Phase I, ATLSS Report No.02-04, Lehigh University, Bethlehem, PA, 2002.
- "The Ultimate Strength of AL-6XN Plates under Axial Compression," *Proc. of The First International Conference on Steel & Composite Structures*, Vol.2, pp. 1403-1410, Pusan, Korea, 2001.
- "Ultimate Strength Estimates of Cold-Formed Square Columns Subjected to Eccentric Axial Force", *Journal of Korean Architectural Association*, Seoul, Korea, 1993