

Biographical Sketch – Dr. Y. L. Mo

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A. PROFESSIONAL PREPARATION

National Cheng Kung University, Taiwan	Civil Engineering	BS	1977
National Taiwan University, Taiwan	Structural Engineering	MS	1979
University of Hannover, Germany	Structural Engineering	PhD	1982
DePaul University, Chicago, IL	Computer Science	MS	1989

B. APPOINTMENTS

2000-Present	Professor (Research Professor 1999-2000), Director of Thomas T.C. Hsu Structural Research Laboratory (2003-2016), Dept. of Civil and Environmental Engineering, University of Houston, Houston, Texas.
2011-2015 2003-2007	Advisor , National Center for Research on Earthquake Engineering (NCREE), Taipei, Taiwan.
1998	Visiting Scholar , John A. Blume Earthquake Center, Dept. of Civil Engineering, Stanford University, California.
1997-2000	Head , Fundamental Research Division, NCREE, Taipei, Taiwan.
1995	Alexander von Humboldt Visiting Professor , Institute of Structural Mechanics and Dynamics, University of Hannover, Germany.
1991-2000	Professor (1994-2000), Director of Structural Laboratories (1997-99); Associate Professor (1991-1994), Dept. of Civil Engineering, National Cheng Kung University, Tainan, Taiwan.
1990	Visiting Engineer , Korean Power Engineering Company, Seoul, South Korea.
1984-1991	Engineering Analyst (1989-1991); Structural Engineering Designer (1984-1889), Sargent and Lundy Engineers, Chicago, Illinois.
1982-1984	Research Associate , Dept. of Civil Engineering, University of Houston, Houston, Texas.

C. PRODUCTS: (57 invited talks, 187 journal and 154 conference publications, 5 books, 3 published and 2 pending book chapters, 6 awarded and 2 pending patents)

Five recent relevant publications, followed by five additional publications

Kong, Q., R. H. Robert, P. Silva, and Y.L. Mo (2016), “Cyclic Crack Monitoring of a Reinforced Concrete Column under Simulated Pseudo-dynamic Loading using Piezoceramic based Smart Aggregates,” Applied Sciences, November, 6, 341, doi:10.3390/app6110341.

Yan, J., F. Qin, Z. Cao, Feng Fan and Y. L. Mo (2016). “Mechanism of coupled instability of single-layer reticulated domes,” Engineering Structures, 114, May, pp. 158-170, doi:10.1016/j.engstruct.2016.02.005.

- Ho, S.C.M., L. Ren, E. Labib, A. Kapadia, **Y.L. Mo**, H. Li, and G. Song, (2015). “Inference of bond slip in prestressed tendons in concrete bridge girders,” **Structural Control and Health Monitoring**, 22:289-300, DOI:10.1002/stc.1669, February.
- Zhao, X., R. Wang, H. Gu, G. Song and **Y.L. Mo**, (2014). “Innovative Data Fusion Enabled Structural Health Monitoring Approach,” **Mathematical Problems in Engineering**, Volume 2014, Article ID 369540, 11 pages.
- Kong, Q., S. Hou, Q. Ji, **Y.L. Mo** and G. Song, (2013). “Very early age concrete hydration characterization monitoring using piezoceramic based smart aggregates,” **Smart Materials and Structures**, 22, 085025.
- Liu, X., Z. Shi, **Y. L. Mo** and Z. Cheng (2016). “Effect of Initial Stress on Attenuation Zones of Layered Periodic Foundations,” **Engineering Structures**, 121, pp.75-84.
- Liu, X., Z. Shi, H. Xiang, and **Y. L. Mo**, (2015). “Attenuation Zones of Periodic Pile Barriers with Initial Stress,” **Soil Dynamics and Earthquake Engineering**, Vol.77, Oct., pp. 381-390.
- Ding, R., M. X. Tao, J. G. Nie and **Y. L. Mo**, (2016). “Shear Deformation and Sliding-Based Fiber Beam-Column Model for Seismic Analysis of Reinforced Concrete Coupling Beams,” **Journal of Structural Engineering**, ASCE, February, DOI: 10.1061/(ASCE)ST.1943-541X.0001478.
- Luu, C.H., **Y. L. Mo**, T.T.C. Hsu (2016). “Development of CSMM-Based Shell Element for Reinforced Concrete Structures” **Engineering Structures**, Dec. 10, 132, 778-790, DOI: 10.1016/j.engstruct.2016.11.064.
- Hsu, T.T.C. and **Y. L. Mo**, (2010). Unified Theory of Concrete Structures, **John Wiley** and Sons, West Sussex, UK, 500pp.

D. SYNERGISTIC ACTIVITIES

1. Honors & Awards

- **Tsinghua Chair Professorship**, Tsinghua University, Beijing, China, awarded in 2016
- **Best Paper Award in 2015**, International Journal of Concrete Structures and Materials, 2016
- **Faculty Achievement Award**, University of Houston, Houston, Texas, 2011
- **Best Paper Award**, ASCE Earth and Space Conference, Long Beach, CA, March 3-5, 2008
- **Outstanding Teacher Award**, University of Houston, Houston, Texas, 2007
- **Distinguished Research Award**, National Science Council, Taiwan, 1999
- **Teaching Excellence Award**, National Cheng Kung University, Tainan, Taiwan, 1997
- **Alexander von Humboldt Research Fellow**, Alexander von Humboldt Foundation, Germany, awarded in 1995
- **Fellowships**: Friedlich Ebert Foundation, Germany, 1982; Prestressed Systems, USA, 1982-1984; Alexander von Humboldt Foundation, Germany, 1995; International Biographical Association, England, 1996; American Biographical Institute, USA, 1997; American Concrete Institute, 2003.

2. Editorial Board

Multiscale and Interactive Mechanics (2004–present); Advanced Steel Construction (2005–present); Theoretical and Applied Multiscale Mechanics (2009–present); Architecture (2010–present); Architecture Science (2010–present); Challenge Journal of Structural Mechanics (2015–present, Associate Editor).