

Malcolm K. Lim, PE
Sr. Consultant
Civil Engineering

Humatec
Expertise You Can Trust

Cloverleaf Office Park
6405 Metcalf Ave.
Suite 220
Overland Park, KS 66202

Phone: 913-261-3500
www.humatec.com

A Licensed Professional Engineer, Mr. Lim has more than 30 years experience in structural and materials evaluation. A nationally recognized expert in nondestructive testing and evaluation, Mr. Lim helped research various nondestructive testing methods, including ground penetrating radar and infrared thermography. Mr. Lim is able to determine the causes of structural performance issues, such as structural distress, excessive displacement, and excessive vibrations to partial or total structural collapse. He developed an algorithm enabling corrosion hot spots to be identified and addressed prior to failure. Mr. Lim's high-profile consulting projects include Mederka PNB 118 in Kuala Lumpur, Malaysia; Vehicle Assembly Building, Kennedy Space Center, Florida; Soldier Field in Chicago; Heinz Field in Pittsburgh; and the Denver International Airport. Mr. Lim has authored numerous presentations and journal articles as well as a book for the Nuclear Regulatory Industry. He has lectured at various universities and colleges on the practical aspects of engineering. He has served as an expert in numerous cases, and has testified in court hearings and as part of arbitration and mediation.

Areas of Focus

- Corrosion Assessment
- Water Leakage Troubleshooting
- Data Analytics
- Building Envelope Assessment
- Failure and Fire Damage Investigation
- Nondestructive Testing
- Structural Evaluation and Monitoring
- Storm Damage Assessment

Education

- MS, Civil Engineering, University of New Hampshire, 1989
- BS, Civil Engineering, University of New Hampshire, 1987

Licensing & Certifications

- Licensed Professional Engineer in Florida, Illinois and Indiana
- Holds one U.S. Patent and one International Patent

Publications (*partial list*)

- In-Service Inspection and Structural Integrity, Refai, T.M. and Lim, M.K., Regulatory Commission, NRC Fin. No. B0845, September 1991
- Combining Multiple NDT Methods to Improve Testing Effectiveness, Lim, M.K., Cao, H., Construction and Building Materials, Vol. 38, issue 2013, pp. 1310 - 1315
- Using Initiators In Portland Cement Concrete Pavements To Propagate Transverse Joint Cracking, Lim, M. K., Foster, P. and Gress, D., ICCP10, July 2012
- Rapid and Economical Evaluation of Concrete Tunnel Lining with Impulse Response and Impulse Radar Nondestructive Methods, Davis, A.G. and Lim, M.K., NDT and E International, 2004
- NDT Verifies Garage Barrier Safety, Mehrabi, A.B. and Lim, M.K. Parking Today, Vol. 8, No. 6, June 2003
- Use of Nondestructive Testing to Determine Physical Properties of Reinforced Concrete In-Situ, Corley, W.G., Lim, M.K., and Kolf, P.R., Proceedings, RILEM International Conference on NDT and Experimental Stress Analysis of Concrete Structures, Bratislava, Slovakia, October 1998

- Nondestructive Evaluation and Repair of an Understrength Building, Corley, W.G., Vincent, J.F., Lim, M.K., and Olson, C.A., Seminario Internacional Evaluacion De Estructuras De Concreto, Mexico, May 1991

Associations

- American Concrete Institute, Member

Presentations (*partial list*)

- Structural Investigation of Failed Structures, Lecture, University of Illinois Urbana Champaign – Department of Civil Engineering, 2005, 2006, 2008, 2010, 2012, 2015, 2017
- Failure Investigation, Lecture Series, Birmingham, United Kingdom, 2015
- Evaluation of Structures and Corrosion, Lecture Series, Loughborough University, United Kingdom, Singapore Polytechnic, 2013
- Practical Principles For Evaluation of Concrete Strength and Applications of Nondestructive Methods for Concrete Structures, North Carolina State University, 2011
- Structural Diagnosis without Killing the Patient, SEA01 Breakfast Seminar Meeting, Structural Engineers Association of Illinois, Chicago, Illinois, 1993

Employment

- Humatec, Sr. Consultant – Civil Engineering, 2017 - Present
- MLim Consulting, Inc., President, 2016 - Present
- PROCEQ Technical and Application Services, General Manager, 2012 - 2016
- UCT, Principal, 2007 - 2012
- IFMA HCC, Vice President – Administration, Treasurer, 1995 - 2012
- Construction Technology Laboratories, Inc., Manager, 2005 - 2007
- CTLGroup, Manager, 1989 - 2007