

## **Meimiao (Linda) Kuo, M.S.**

Data and Programming Manager  
GENEX System – a Consulting Firm  
In supporting Highway Research

### **Office Address:**

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**Education:** Strayer University, Washington, DC  
**M.S.I.S** Master of Science in Information Systems 2003.  
Chung Yuan Christian University in Taiwan.  
**B.A** Bachelor degree of Business Administration

### **Recent Professional Experiences**

- Ms. Kuo's professional experience in the US includes: Inventory Data Manager at Comtech Micro System Inc. from April 2000 – Nov. 2002. Programmer at LENDIS Corporation, from March 2006 – Oct. 2007; and Data and Programming Manager at GENEX System, from Oct. 2007 to Present.

### **Research and Academic Interests**

- Ms. Kuo is an experienced programming and data manager specializing in development of graphical user interfaces (GUI) and database for engineering software. She is currently working as the contract chief programmer of a national-wide seismic research project located at the FHWA's Turner-Fairbank Highway Research Center.

### **Major Projects Performing**

- **Study of the failures and impacts of the recent devastated earthquake in China:** Ms. Linda Kuo is the Co-Principle Investigator of this task, part of an FHWA/ MCEER Seismic Research Project, to study the effects of the devastated earthquake occurred in China in 2008, and collect bridge performance information under the large ground motions, including skewed & curved bridge and other special geometric conditions and construct a database of the bridge performance under the earthquake.
- **Bridge Seismic Analysis Program Development:** Ms. Kuo was the chief programmer in a FHWA project that developed a Windows-based user-friendly interface for an existing inelastic structural pushover analysis, called, INSTRUCT. The ultimate goal was to provide State DOTs a useful tool for the highway bridge pushover analysis, which had become a significant part of the latest seismic design and retrofitting criteria.
- **Bridge Damage Data Analysis :** Linda is the primary analyzer (contracting computer engineer) working with the FHWA's research specialists in the natural hazard areas in investigating the bridge damage information due to the different extreme loads. She is also collaborating with other countries, such as Taiwan, Japan and China in comparison of the bridge inspection data and inventory to improve the bridge management system. The objective of this project is to synthesize the design principles for highway infrastructure.

### **Honor and Award**

- Ms. Kuo received a special achievement award from Oregon State Department of Transportation in recognizing her great contributions on the development of design tool for national seismic hazard map.

### **Selected Publications**

- The Development of FHWA Pushover Analysis Computer Program, the 6<sup>th</sup> National Seismic Conference on Bridges and Highways, Charleston, South Carolina, 2008.
- FHWA Pushover Analysis Program and Bridge Structure Applications. (accepted), the 10<sup>th</sup> Earthquake Engineering Conference, Toronto, Canada, 2010