

**George C. Lee**  
**CURRICULUM VITAE**

**CURRENT POSITION:** SUNY Distinguished Professor  
Samuel P. Capen Professor of Engineering  
University at Buffalo, State University of New York  
Civil, Structural and Environmental Engineering Department  
429 Bell Hall, Box 602050  
Buffalo, New York 14260-2050 (716) 645-3397 fax (716) 645-3940

**EDUCATION:** B.S. Civil Engineering, National Taiwan University 1955  
M.S. Civil Engineering, Lehigh University 1958  
Ph.D. Civil Engineering, Lehigh University 1960

**PROFESSIONAL POSITIONS:**

Mar 2007–present SUNY Distinguished Professor

Sept 2003-Sept 2008 Special Tasks Director, Multidisciplinary Center for Earthquake Engineering,  
Project Director, FHWA Research Contract

Sept 1995 – Jan 2004 Senior University Advisor to President Greiner for Technology  
State University of New York at Buffalo

Sept 1995-present Samuel P. Capen Professor of Engineering

Sept.1992-Aug 2003 Director, Multidisciplinary Center for Earthquake Engineering Research  
State University of New York at Buffalo

Jan. 1978-  
June 1995 Dean, School of Engineering and Applied Sciences  
State University of New York at Buffalo

May 1989-  
Aug. 1990 Acting Director, National Center for Earthquake Engineering Research,  
State University of New York at Buffalo

1984-1990 Associate Director, Calspan-UB Research Center, Buffalo, New York

Oct. 1984-  
May 1985 Acting Director, Health-Care Instrument and Device Institute  
New York State Center of Advanced Technology  
State University of New York at Buffalo

Jan. 1977-  
Jan. 1978 Head, Engineering Mechanics Section  
National Science Foundation

1974-1977 Professor and Chairman, Department of Civil Engineering  
State University of New York at Buffalo

1961-present Department of Civil Engineering, State University of New York at Buffalo

Professor (1967-present), Associate Professor (1963-1967)  
Assistant Professor (1961-1963)

1970-1971                      Acting Chairman, Department of Civil Engineering  
1973-1974                      State University of New York at Buffalo

1969-1970                      National Institute of Health, Senior Research Fellow  
Department of Physiology, Harvard School of Public Health  
Boston, Massachusetts

1960-1961                      Postdoctoral Fellow, Lehigh University

1956-1960                      Research Fellow, Research Assistant, Research Associate  
Lehigh University

**HONORS AND AWARDS:**

Adams Memorial Award, American Welding Society, 1974  
Superior Accomplishment Award, National Science Foundation, 1977  
Engineering Achievement Award, Chinese Institute of Engineers, USA, 1980  
Engineering Educator's Award, Erie-Niagara Chapter of the New York State  
Professional Engineers Society, 1983 (First Recipient)  
Man-of-the-Year Award, Niagara Frontier Technical Societies Council, 1985  
(First Recipient)  
Walter P. Cooke Award, University at Buffalo Alumni Association, 1995  
President's Medal for Distinguished University Service, University at Buffalo, 1995  
Western New York Health Care Technology/Discovery Award, Health Care Industries  
Association, 1996  
WNY First Place Inventor of the Year Award in Physical Sciences (of US Patent 5,526,609), 1996  
ASCE Newmark Medal, 2000  
WNY Second Place Inventor of the Year Award in Physical Sciences (US Patent 6,038,924), 2000  
University at Buffalo SEAS Dean's Award for Achievement, 2004  
Lynn S. Beedle Distinguished Civil & Environmental Eng. Award, Lehigh University, 2004  
University at Buffalo Award for Outstanding Contributions to International Education at UB, 2005  
2006 Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring  
(PAESMEM)  
SUNY Distinguished Professor, 2007

**REVIEWER FOR THE FOLLOWING JOURNALS:**

Journal of American Institute of Aeronautics and Astronautics  
Journal of Applied Mechanics, ASME  
Journal of Applied Physiology  
Journal of Biomechanical Engineering, ASME  
Journal of Biomechanics  
Biophysical Journal  
Journal of Bridge Engineering, ASCE  
Journal of Cold Regions Engineering, ASCE  
Journal of Computing in Civil Engineering, ASCE  
Journal of Earthquake Engineering and Engineering Vibration  
Journal of Engineering Mechanics, ASCE

Journal of Engineering Structures  
Journal of Earthquake Resistant Engineering  
International Journal for Homeland Security  
Journal of Infrastructure Systems, ASCE  
International Journal of Numerical Methods in Engineering  
International Journal of Solid Mechanics  
International Journal of Steel Structures  
Journal of Structural Dynamics and Earthquake Engineering  
International Journal of Structural Engineering and Mechanics  
Journal of Structural Engineering, ASCE  
Transportation Research Record

### **Summary of Externally Funded Projects**

- PI of Major Research Center Grant: NCEER - Phase II, 1991-1996, \$42M, MCEER, 1997-2002, \$20M (NSF, New York State)
- PI of Major Research Contracts with FHWA: (1) Seismic Vulnerability of the Existing Highway System, 1992-2004, \$11,735,926; (2) Seismic Vulnerability of the Highway System, 1998-2006, \$13,766,412; (3) Innovative Technologies and their Applications to Enhance the Seismic Performance of Highway Bridges in accordance with SAFETEA-LU, FHWA, 2007-2012, \$4,050,000; (4) Multi-hazard Design Principles for Highway Bridges, 2008-2012, \$2,994,000 .
- PI of major educational grant 1986-1991 ~\$16M gov. Malaysia
- PI or Co-PI of individual research, education and equipment grants, 1964-present, ~ \$7M (Brookhaven National Lab, Dept of the Navy, American Institute of Steel Construction, Metal Building Manufacturers' Association, National Science Foundation, National Heart and Lung Institute, National Heart, Lung and Blood Institute, NYS Science & Technology Foundation, Dept of the Army, Welding Research Council, Office of Naval Research, Nuclear Defense Agency, Dept of Energy, Small Business Administration, DARPA, NASA Ames Research Center, Engineering Foundation and various industrial grants and contracts).

### **Post Doctoral Fellows and Graduate Students Mentored (since 1964)**

Master Thesis: 75  
Ph.D. Dissertations: 47  
Post doctoral Fellows: 20

### **Current Graduate Students Mentored**

MS Students: 8  
Ph.D. Students: 4

**US PATENTS AWARDED:** 8  
International Patents awarded 3

### **GRADUATE SUBJECTS TAUGHT:**

Steel Structures  
Structural Stability I and II  
Plasticity I and II

Plastic Analysis and Design  
Introduction to Biomechanics I and II  
Experimental Mechanics  
Advanced Topics in Reinforced Concrete Structures  
Advanced Structural Analysis  
Design of Metal Structures  
Special Topics: Cold Regions Structural Engineering  
Modal Analysis and Testing  
Special Topics: Seismic Design and Retrofit of Long Span Bridges  
Special Topics: Introduction to Seismic Design of Bridges  
Special Topics: Graduate Research in Structural Engineering  
Special Topics: Social, Political and Economic Aspects of Extreme Event Engineering  
Special Topics: Emerging Technologies in Bridge Engineering  
Special Topics: Bridge and Highway Infrastructure Management and Public Policy

#### **UNDERGRADUATE SUBJECTS TAUGHT:**

Mechanics of Materials  
Structural Mechanics I and II  
Structural Analysis and Design I and II  
Civil Engineering Project (senior)  
Selected Topics in Structural Systems (senior)  
Professional Engineering (senior)  
Man-Made World (freshman)  
Introduction to Engineering (freshman)  
Introduction to Engineering Design (freshman)

#### **PUBLICATIONS:**

##### **Books**

Ketter, R.L. and Lee, G.C. and Prawel, S.P., *Structural Analysis and Design*, McGraw-Hill, April 1979.  
Lee, G.C. and Ketter, R.L. and Hsu, T.L., *Design of Single Story Rigid Frames*, Mack Printing Co., 1981.  
Eranti, E. and Lee, G.C., *Cold Region Structural Engineering*, McGraw-Hill Book Co., 1986.  
Liang, Z., Lee, G.C., Dargush, G. and Song, J., *Structural Damping: Applications in Seismic Response Modification*, CRC Press, Fall 2011.

##### **Books Edited**

Fukumoto, Y. and Lee, G., (Co-Editors), *Stability and Ductility of Steel Structures Under Cyclic Loading*, CRC Press, Inc., 1992.

##### **Refereed Journal Papers (past 6 years)**

1. Kitane, K., Aref, A. J. and Lee, G. C. (2004). "Static and fatigue testing of hybrid fiber-reinforced polymer-concrete bridge superstructure," *J. Composites for Construction*, March/April, 2004, 8:2 (182).

2. Liu, W., Tong, M., Wu, Y. and Lee, G. C. (2004). "Optimized damping device configuration design of a steel frame structure based on building performance indices." *Earthquake Spectra*, February 2004, Vol. 20, No. 1, 67-90.
3. Shen, J., Tsai, M. H., Chang, K. C., and Lee, G. C. (2004). "Performance of seismic isolated bridge under ground motions." *J. Structural Engineering*, ASCE , Vol. 130, No. 6, June 2004, 861-868.
4. Lee, G. C. , Chen, S. W., Li, G. Q. and Tong, M. (2004). "On Performance-Based Analysis of Buildings for Multi-Hazard Mitigation," *Intl. J. of Steel Structures*, December, Vol. 4, No. 4, 157-170.
5. Dai, J. W., Tong, M., Lee, G. C., Qi, X. Z. and Bai, W. T. (2004). "Structural Responses under Pulse-Dominant Excitations." *J. Earthquake Engineering and Engineering Vibration*, December 2004, Vol. 3, No. 2, 231-239.
6. Dai, J., Tong, M., Lee, G., Qi, X., and Bai, W. (2004). "Dynamic responses under the excitation of pulse sequences," *J. Earthquake Engineering and Engineering Vibration*, Vol3, No2 pp157-169, December.
7. Tong, M., Wang, G. and Lee, G. C. (2005). "Time derivative of earthquake acceleration," *J. Engineering and Engineering Vibration*, Vol 4, No.1 pp 1-16, June, 2005.
8. Aref, A. J., Kitane, Y. and Lee, G. C. (2005). Analysis of hybrid FRP-concrete multi-cell bridge superstructure, *Composite Structures*, 69, 346-359.
9. Liu, W.-C., Liang, Z. and Lee, G. C. (2005). "Low-Cycle Bending Fatigue of Steel Bars Under Random Excitation, Part I: Behavior." *J. Structural Engineering*, 131(6), 913-918.
10. Liu, W.-C., Liang, Z. and Lee, G. C. (2005). "Low-Cycle Bending Fatigue of Steel Bars Under Random Excitation, Part II: Design Considerations." *J. Structural Engineering*, 131(6), 919-923.
11. Gao, Y., Yang, G., Spencer, B. F. and Lee, G. C. (2005). "Java-Powered Virtual Laboratories for Earthquake Engineering Education." *J. Computer Applications in Engineering Education*, 13(3), 200-212.
12. Liu, W., Tong, M. and Lee, G. C. (2005). Optimization methodology for damper configuration based on building performance indices. *J. Structural Engineering*, November 2005, 131(11), 1746-1756.
13. Sternberg, E. and Lee, G. C. (2006). Meeting the challenge of facility protection for homeland security. *J. Homeland Security and Emergency Management*, February 2006, 3(1).
14. Yan, X., Lee, G. C., Lichu, F. and Shide, H. (2006). "A comparative study between China and U.S. on seismic design philosophy and practice of a long span arch bridge." *J. Earthquake Engineering and Engineering Vibration*, 5(1), 61-70.
15. Liang, Z., and Lee, G. C. (2006). "On similitude law of sub-systems." *J. Earthquake Engineering and Engineering Vibration*, 5(1), 133-142.
16. Song, J., Chu, Y-L, Liang, Z. and Lee, G. C. (2007). "Estimation of peak relative velocity and peak absolute acceleration of linear SDOF systems." *J. Earthquake Engineering and Engineering Vibration*,

6(1), 1-10.

17. Tsai, M-H, Wu, S-Y, Chang, K-C and Lee, G. C. (2007). "Shaking table tests of a scaled bridge model with rolling-type seismic isolation bearings." *Engineering Structures*, 694-702.
18. Ou, Y.-C., Chiewanichakorn, M., Aref, A.J., and Lee, G.C. (2007) "Seismic performance of segmental precise unbounded post-tensioned concrete bridge columns." *J. Structural Engineering*, ASCE, 133 (11), 1636-1647.
19. Tong, M., Rzhevsky, V., Dun, J., Lee, G. C., Qi, J. and Qi, X. (2007). "Near-fault ground motions with prominent acceleration pulses: pulse characteristics and ductility demand." *J. Earthquake Engineering and Engineering Vibration*, 6(3), 215-224.
20. Yan, X. and Lee, G. C. (2007). "Traveling wave effect on the seismic response of a steel arch bridge subjected to near fault ground motions." *J. Earthquake Engineering and Engineering Vibration*, 6(3), 245-258.
21. Song, J., Liang, Z., Chu, Y-L and Lee, G. C. (2007). "Peak earthquake response of structures under multi-component excitations." *J. Earthquake Engineering and Engineering Vibration*, 6(4), 357-370.
22. Lee, G. C. and Sternberg, E. (2008). "A New System for Preventing Bridge Collapses." *Issues in Science and Technology*, Spring 2008, 31-36.
23. Wang, Z. and Lee, G. C. (2009). "A comparative study of bridge damage due to the Wenchuan, Northridge, Loma Prieta and San Fernando earthquakes," *Earthquake Engineering and Engineering Vibration*, " Vol. 8, No. 2, 251-261, June 2009.
24. Sternberg, E. and Lee, G. C. (2009). "New York City's Healthcare Transportation during a Disaster: A Preparedness Framework for a Wicked Problem," *Prehospital and Disaster Medicine*, Vol. 24, No. 2, 95-107, March-April 2009.
25. Sim, S. H., Spencer, B. F. and Lee, G. C. (2009). "Virtual Laboratory for Experimental Structural Dynamics", *J. Computer Applications in Engineering Education*, Vol. 17(1), 80-88.
26. Lee, E.-T., Yun, B. H., Shim, H. J., Chang, K. H. and Lee, G. C. (2009). "Torsional Behavior of Concrete-Filled Circular Steel Tube Columns," *J. Structural Engineering*, Vol. 135, No. 10, 1250-1258.
27. Ou, Y-C, Wang, P-H, Tsai, M-S, Chang, K-C and Lee, G. C. (2010). "Large-Scale Experimental Study of Precast Segmental Unbonded Posttensioned Concrete Bridge Columns for Seismic Regions," *J. Structural Engineering*, Vol. 136, No. 3, 255-263.
28. Ou, Yu-C, Song, J. and Lee, G. C. (2010). "A parametric study of seismic behavior of roller seismic isolation bearings for highway bridges," *Earthquake Engineering and Structural Dynamics*, 39, 541-559.
29. Lee, G. C., Ou, Y-C, Niu, T., Song, J. and Liang, Z. (2010). "Characterization of a roller seismic isolation bearing with supplemental energy dissipation for highway bridges," *J. Structural Engineering*, Vol. 136, No. 5, 502-510.

### **Conference Proceeding Papers (past 6 years)**

1. Chen, S. W., Lee, G. C. and Shinozuka, M. (2004). "Hazard Mitigation for Earthquake and Subsequent Fire." *Proc. the ANCER Annual Meeting*, Honolulu, Hawaii, July 30-31, 2004.
2. Dai, J., Tong, M., Lee, G. C. and Qi, X. (2004). "Structural responses under pulse-dominant excitations." *Proc. the ANCER Annual Meeting*, Honolulu, Hawaii, July 30-31, 2004.
3. Chen, S. W., Tong, M. and Lee, G. C. (2004). "Inelastic response modification of structures using semi-active and passive control devices." *Proc. 13<sup>th</sup> World Conference on Earthquake Engineering*, Vancouver, Canada, August 2004.
4. Lee, G. C. (2004). "Multi-hazard engineering for critical facilities: A new challenge for the earthquake engineering community." *Proc. Int'l Symposium on Earthquake Engineering—The Past and Future 50 years*. August 20-21, 2004, Harbin, China.
5. Liu, W., Tong, and Lee, G. C. (2004). "Simple procedure for preliminary design of structural dampers." *Proc. 13<sup>th</sup> World Conference on Earthquake Engineering*, Vancouver, Canada, August 2004.
6. Lee, G. C. and Z. Liang (2004). "On modeling of nonlinear responses of seismic isolation bridge bearings." *Proc. the US/PRC Bridge Workshop*, Shanghai, October 2004.
7. Lee, G. C., Tong, M. and Dong, T. (2004). "On Design of Highway Bridges against Unintentional Hazards and Hazards and Malicious Attacks." *Proc. US-Japan Workshop on Bridge Engineering*, Washington, D.C., October 4-6, 2004.
8. Lee, G. C., Liang, Z. and Ou, Y-C (2004). "Development of damage-based limit states in performance-based seismic design for steel bridges." *Proc. US-PRC Workshop on Seismic Design*.
9. Lee, G. C., Liang, Z. and Ou, Y-C (2005). "Low-cycle fatigue in limit state seismic design of steel structures," *Proc. the ISSS'05*, March 10-11, 2005, Seoul, Korea.
10. Tong, M., Lee, G. C. and Qi, J. (2005). "Decision-support for Hazard Management of Critical Facilities." *Proc. 2005 PRC-US Workshop on Integrated Multi-Hazard Protection Engineering for Mass Assembly Buildings*. Shanghai, China, May 21-22, 2005.
11. Lee, G. C. and Liang, Z. (2005). "Constant acceleration of superstructures: A concept of seismic isolation." *Proc. 37<sup>th</sup> Joint UJNR Panel on Wind and Seismic Effects*, Osaka, Japan, May 15-18, 2005.
12. Liang, Z. and Lee, G. C. (2005). "Force controlled testing of bi-linear structures." *Proc. First International Conference on Advanced in Experimental Structural Engineering (AESE 2005)*, Nagoya, Japan, July 19-21, 2005
13. Liang, Z. and Lee, G. C. (2005). "Bridge monitoring through ambient vibration measurement." *Proc. First International Conference on Advanced in Experimental Structural Engineering (AESE 2005)*, Nagoya, Japan, July 19-21, 2005

14. Lee, G. C., Tong, M. and Yen, W. P. (2005). "Consideration of multiple hazards in highway bridge design – A current FHWA sponsored project." *Proc. US-Taiwan Bridge Maintenance Workshop 2005*, Taipei, Taiwan, October 25-28, 2005.
15. Ou, Y-C, Chiewanichakorn, M., Ahn, I-S, Lee, G. C., Liang, Z., (2005). "Analytical model for segmental precast unbonded post-tensioning bridge column for accelerated bridge construction." *Proc. PCI NBC 2005*, Palm Springs, CA, October 17-18, 2005.
16. Lin, L-Y, Lee, G. C., Liang, Z. and O'Connor, J. S. (2005). "Health monitoring of bridge bearings." *Proc. ASNT Conference*, Columbus, OH, October 17-19, 2005.
17. Lee, G. C. and Liang, Z. (2005). "A new roller bearing isolation system for highway bridges." *Proc. Caltrans Bridge Research Conference 2005*. Sacramento, CA, October 31-November 1, 2005.
18. Lee, G. C. (2005). "Strain History Monitoring for Steel Buildings." China-US Special Workshop on Multiple Hazards Resistant Strategy and Monitoring Technologies for Large Public Buildings." Beijing, China, November, 2005.
19. Lee, G. C., Tong, M. and Wang, H. (2005). "Seismic retrofit of non-ductile reinforced concrete hospital buildings in the Eastern US," *Proc. 2005 ANCER Annual Meeting*, Jeju, Korea, November 11-12, 2005.
20. Liu, S. C. and Lee, G. C. (2005). "Multi-hazard mitigation: a new frontier in earthquake engineering." *ISSS'2005*, Nanjing, China, November 20-22, 2005.
21. Ahn, I-S., Aref, A., Chen, S., Chiewanichakorn, M., Lee, G. C. and Ou, Y-C. (2005). "Accelerated Modular Construction: Seismic Considerations," *Proc. 2005 FHWA Accelerated Bridge Construction Conference – Path to Future*, December 14-16, 2005, San Diego, CA.
22. Ou, Y-C, Chiewanichakorn, M., Ahn, I-S, Aref, A. J., Chen, S. S. Filiatraulat, A. and Lee, G. C. (2006). Cyclic performance of precast concrete segmental bridge columns, *Proc of 85<sup>th</sup> Annual Meeting of Transportation Research Board of the National Academies*, Washington, D.C., January 22-26, 2006.
23. Tong, M., Lee, G. C. and Xu, Y. (2006). "Seismic responses of highway bridges subjected to near-fault acceleration pulses excitation." *Proc. 4<sup>th</sup> International Workshop on Seismic Design and Retrofit of Transportation Facilities*, San Francisco, CA, March 13-14, 2006.
24. Filiatrault, A., Bruneau, M., Alesch, D., Constantinou, M., Dargush, G., Grigoriu, M., Lee, G., Maragakis, E., Mosqueda, G., Petak, W., Reinhorn, A. and von Winterfeldt, D. (2006). "Enhancing the resilience of acute care facilities: an overview of MCEER Research." *Proc. 100<sup>th</sup> Anniversary Earthquake Conference*, San Francisco, CA, April 18-22, 2006.
25. Buckle, I. and Lee, G. C. (2006). "Improving the resilience of highway systems to major earthquakes," *Proc. 100<sup>th</sup> Anniversary Earthquake Conference*, San Francisco, CA., April 18-22, 2006.
26. Ou, Y-C, Wang, J-C, Chang, K-C and Lee, G. C. (2006). "Experimental evaluation of pre-case pre-stressed segmental concrete bridge columns." *Proc. ASCE 2006 Structures Congress*, St. Louis, MO, May 18-21, 2006.



27. Lee, G. C., Xu, Y. Fan, L. and Li, J. (2006). A comparative study on selected aspects of seismic design codes for highway bridges between China and US. *Proc. 4<sup>th</sup> PRC-US Bridge Workshop*, Chongqing, China, June 19-21, 2006.
28. Xu, Y. and Lee, G. C. (2006). "A comparative study on seismic design philosophy and practice of a long span arch bridge between China and US," *Proc. 5<sup>th</sup> National Seismic Conference on Bridges & Highways*, Sept. 18-20, 2006.
29. Dai, J., Qi, X., Tong, M. and Lee, G. C. (2006). "Earthquake Simulation Tests For Structures Under Pulse-Dominant Ground Excitations." The Ninth International Symposium on Structural Engineering for Young Experts, August 18-21 2006, Fuzhou & Xiamen, China
30. Tong, M., Rzhovsky, V., Lee, G. C., Qi, J., Dai, J. and Qi, X. (2006). "Near-fault ground motions with prominent acceleration pulses, Part I: Evaluation of pulse characteristics and the structural damage potential." *Proc. Fourth International Conference on Earthquake Engineering*, Oct. 12-14, 2006, Taipei, Taiwan.
31. Dai, J., Qi, X., Tong, M., Lee, G. C. and Rzhovsky, V. (2006). "Near-fault ground motions with prominent acceleration pulses, Part II: Shaking table evaluation of structural response and damage under acceleration pulses." *Proc. Fourth International Conference on Earthquake Engineering*, Oct. 12-14, 2006, Taipei, Taiwan.
32. Lee, G. C., Niu, T., Liang, Z. and Wang, H. (2007). "A Semi-Passive Control Device for Fail-Safe Performance of Bridge Isolation Systems," *Proc. US Italy Bridge Conference*, April 18-20, 2007, Pavia, Italy
33. Tong, M., Lee, G. C. and Qi, J. (2007). "Decision-support Information for Management of Hazard Events in Critical Facilities." *Proc. ANCER Annual Meeting*, Hong Kong, May 2007.
34. Ou, Y-C, Lee, G. C., Wang, P-H, Tsai, M-S and Chang, K-C (2007). "Cyclic Tests of Precast Segmental Unbonded Post-Tensioned Concrete Bridge Piers." 2007 New York City Bridge Conference, August 27-28, 2007, New York City, NY.
35. Lee, G. C. (2008). "Innovative Technology and Their Applications to Enhance the Seismic Performance of Highway Bridges," *Proc. TRB 87<sup>th</sup> Annual Meeting*, January 13-17, 2008, Washington, D.C.
36. Ou, Y-C, Wang, P-H, Tsai, M-S, Chang, K-C and Lee, G. C. (2008). "Pseudo-Dynamic Tests of Precast Segmental Unbonded Post-Tensioned Concrete Bridge Columns," 2008 FHWA Accelerated Bridge Construction Conference – Highway for Life, Baltimore, MD, March 20-21, 2008.
37. Chang, K.-C., Tsai, M.-S., Ou, Y.-C., Lee, G. C., Wang, J.-C- and Wang, P.-H. (2008). "Research and application of precast segmental bridge columns for seismic regions," *Proc. IABMAS08*, Seoul, Korea, July 13-15, 2008.
38. Yen, W. P., Lee, G. C., and O'Connor, J. S. (2008). "New Tools Available to Practicing Engineers for the Seismic Design of Bridges." *Proc. 6<sup>th</sup> National Seismic Conference on Bridges and Highways*, Charleston, SC, July 27-30.
39. Lee, G. C., Cho, S., Tong, M., and Yen, W. P. (2008). "Developing a Methodology for Comparison of Extreme Hazards for Highway Bridge Design." *Proc. 6<sup>th</sup> National Seismic Conference on Bridges and Highways*, Charleston, SC, July 27-30.

40. Capers, H. A., Lee, G. C., and O'Connor, J. S. (2008). "Multiple Hazard Research Needs and AASHTO Code Development Activities." *Proc. 6th National Seismic Conference on Bridges and Highways*, Charleston, SC, July 27-30.
41. Ou, Y.-C., Tsai, M.-S., Wang, P.-H., Chang, K.-C., and Lee, G. C. (2008). "Experimental Investigations of Precast Segmental Bridge Columns Seismically Isolated with Lead-Rubber Bearings." *Proc. 6th National Seismic Conference on Bridges and Highways*, Charleston, SC, July 27-30.
42. Liu, S-C, Lee, G. C. Qi, X. (2008). "A Review of the US-PRC Cooperative Research Program on Earthquake Engineering." *Proc. 14WCEE*, October 12-17, 2008, Beijing, China.
43. Dai, J., Qi, X., Wang, Y., Lee, G. C. and Tong, D. (2008). "3D Temporal Characteristics Analyses for Seismic Responses of Structures." *Proc. 14WCEE*, October 12-17, 2008, Beijing, China.
44. Lee, G. C., Ou, Y-C., Song, J., Niu, T. and Liang, Z. (2008). "A Roller Seismic Isolation Bearing for Highway Bridges." *Proc. 14WCEE*, October 12-17, 2008, Beijing, China.
45. Lee, G. C., O'Connor, J. and Wang, Z. Q. (2008). "Development of a Bridge Failure Database", *Proc. 14WCEE*, October 12-17, 2008, Beijing, China.
46. Lee, G. C. and Liang, Z. (2008). "Limitations of current seismic isolation technology for extra large ground excitations." *Proc. 5<sup>th</sup> US-PRC Bridge Engineering Workshop*, Beijing China, 235-248.
47. Lee, G. C., Wang, Z., Liang, Z. and Cho, S. (2009). "System collapse probability of highway bridges for combined earthquake and scour hazards," *Proc. International Conference in Commemoration of the 10<sup>th</sup> Anniversary of the 1999 Chi-Chi Earthquake*, Taiwan, Sept. 17-21, 2009.
48. Lee, G. C. and Liang, Z. (2010). "Multi-Hazard Resilient Bridges: Facts and Challenges", *Proc. 7<sup>th</sup> CUEE and 5<sup>th</sup> ICEE*, Tokyo, Japan, March 3-5, 2010.
49. Lee, G. C., Ou, Y-C, Zhou, Y, Chang, K-C, Tsai, M-S. (2010). "Seismic behavior and design of a precast segmental unbonded post-tensioned concrete bridge column with energy dissipation bars," *Proc. 2010 FHWA Bridge Engineering Conference: Highways for LIFE and Accelerated Bridge Construction*, Orlando, Florida, April 8-9, 2010.
50. Ou, Y-C, Tsai, M-S, Chang, K-C and Lee, G. C. (2010). "Cyclic behavior of precast segmental concrete bridge columns with high performance steel as energy dissipation bars," *9<sup>th</sup> US National and 10<sup>th</sup> Canadian Conference on Earthquake Engineering 2010*, Toronto, CA, July 25-29, 2010.
51. Zhou, Y., Ou, Y-C., Lee, G. C. and O'Connor, J. S. (2010). "Mechanical and low-cycle fatigue behavior of stainless steel rebars for earthquake engineering applications," *9<sup>th</sup> US National and 10<sup>th</sup> Canadian Conference on Earthquake Engineering 2010*, Toronto, CA, July 25-29, 2010.
52. Lee, G. C. and Ou, Yu-Chen (2010). "Seismic Behavior and Design of Precast Segmental Concrete Bridge Columns for Regions of High Seismicity", *Proceedings of 8<sup>th</sup> International Conference on Short and Medium Span Bridge*, Niagara Falls, CA, August 4, 2010
53. Liang, Z. and Lee, G. C. (2010). "A Strength Degradation Monitoring System for Highway Bridges",

*NDE/NDT for Highways and Bridges (SMT) 2010, New York City, NY, August 17-19, 2010.*