

Biographic Sketch of Chyi-Tyi Lee



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A. Personal Data

Name: Chyi-Tyi Lee
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B. Education

<u>School</u>	<u>Nation</u>	<u>Department</u>	<u>Degree</u>	<u>Start/end year.month</u>
National Taiwan University	Taiwan	Geology	Ph.D.	1980.09 ~ 1986.06
National Taiwan University	Taiwan	Geology	Master	1975.09 ~ 1977.06
National Taiwan University	Taiwan	Geology	Bachelor	1971.09 ~ 1975.06

C. Current Position and Related Experiences

<u>Organization</u>	<u>Department</u>	<u>Title</u>	<u>Start/end year.month</u>
(current)			
National Central University, Inst. Applied Geology/ Dept. Earth Sciences		Associate Professor	1991.02 ~ current
(experiences)			
National Central University, Inst. Applied Geology		Director	1991.08 ~ 1994.07
Sinotech Engineering Consultants, Inc.		Principal Geologist	1986.06 ~ 1991.01
Sinotech Engineering Consultants, Inc.		Geologist	1983.01 ~ 1986.06
Sinotech Engineering Consultants, Inc.		Associate Geologist	1979.01 ~ 1982.12
Sinotech Engineering Consultants, Inc.		Assistant Geologist	1977.06 ~ 1978.12

D. Academic Interest

Engineering Geology, Earthquake Geology, Seismic Hazard Analysis, Landslide Hazard analysis, Geostatistics and GIS.

E. Selected Publications

1. **Lee, Chyi-Tyi**, Huang, C.C., Lee, J.F., Pan, K.L., Lin, M.L., Dong, J.J. (2008) Statistical approach to earthquake-induced landslide susceptibility, *Engineering Geology*, 100(1-2), 43-58. (SCI)
2. **Lee, Chyi-Tyi**, Huang, C.C., Lee, J.F., Pan, K.L., Lin, M.L., Dong, J.J. (2008) Statistical approach to storm event-induced landslide susceptibility, *Natural Hazard and Earth System Sciences*, 8,

941-960. (SCI)

3. **Lee, Chyi-Tyi**, B.R. Tsai (2008) Mapping Vs30 in Taiwan, *TAO* (accepted). (SCI)
4. Lin, Po-Shen, **Chyi-Tyi Lee** (2008) Ground-motion attenuation relationships for subduction zone earthquakes in northeastern Taiwan, *Bull. Seism. Soc. Am.*, 98(1), 220-240. (SCI)
5. Cheng, Chin-Tung, Shian-Jin Chiou, **Chyi-Tyi Lee**, Yi-Ben Tsai. (2007) Study on probabilistic seismic hazard maps of Taiwan after Chi-Chi earthquake, *Journal of GeoEngineering*, 2(1), 19-28.
6. Chen R.F., K.J. Chang, J. Angelier, B. Deffontaines, **Chyi-Tyi Lee**, M.L., Lin, I.H. Yan, (2006) Topographical changes revealed by high-resolution airborne LiDAR images: The 1999 Tsaoling landslide induced by the Chi-Chi earthquake, *Engineering Geology*, 88, 160-172. (SCI)
7. **Lee, Chyi-Tyi**, C.C. Huang (2005) Review and prospect on landslide susceptibility analysis, *Sino-Geotechnics*, 104, 33-51.
8. Aiming Lin, **Chyi-Tyi Lee**, T. Maruyama, A. Chen (2005) Meso- and microstructural analysis of coseismic shear zone of the 1999 M_w 7.6 Chi-Chi earthquake, Taiwan, *Bull. Seism. Soc. Am.*, 95(2), 486-501. (SCI)
9. Teng Louis S., Ruey-Juin Rau, **Chyi-Tyi Lee**, Char-Shine Liu, Wen-Shan Chen (2005) Faulting in southwestern Taiwan, *Western Pacific earth Sciences*, 5, 97-128.
10. **Lee, Chyi-Tyi** (2004) Active faults and seismic hazards in west central Taiwan, *International Conference in Commemoration of 5th Anniversary of the 1999 Chi-Chi Earthquake, Taiwan*, 27.
11. **Lee, Chyi-Tyi** (2004) Present status and perspective of landslide susceptibility analysis in Taiwan, *France-Taiwan scientific meeting - Geodynamics and Natural Hazards*, 29.
12. **Lee, Chyi-Tyi**, C.C Huang, C.F. Lee, K.L. Pan, M.L. Lin, C.W. Liao, P.S. Lin, Y.S. Lin, C.W. Chang (2004) Landslide susceptibility analyses based on three different triggering events and result comparison, *Proceeding of International Symposium on Landslide and Debris Flow Hazard Assessment*, 6-1~6-18
13. **Lee, Chyi-Tyi**, Chi-Wen Liao, Po-Shen Lin, Shu-Ching Wen (2003) Holocene multiple movement of the Hsinhua fault in southwestern Taiwan, *AGU 2003 fall Meeting Program*, 135.
14. Dong, J.J., C.D. Wang, **Chyi-Tyi Lee**, J.J. Liao, Y.W. Pan (2003) The influence of surface ruptures on damage in the 1999 Chi-Chi earthquake: a case study in Fengyuan City, *Engineering Geology*, 71, 157-179. (SCI)
15. **Lee, Chyi-Tyi**, Chin-Tung Cheng, Po-Shen Lin (2002) Recent advances on probabilistic seismic hazard analysis in Taiwan, *AGU 2002 fall Meeting Program*, 146.
16. **Lee, Chyi-Tyi** and Q.C. Sung (2002) Earthquake geology and seismic hazard in urban area of Taiwan, *2002 APEC Symposium on Confronting Urban Earthquakes and Seismic Early Warning, Taipei*, 27-37.
17. Hung, J.J., **Chyi-Tyi Lee**, M.L. Lin (2002) Tsao-Ling rockslides, Taiwan, *Catastrophic Landslides: Effects, Occurrence, and Mechanisms*, Geological Society of America Reviews in Engineering Geology, Volume XV, 91-115. (Book)
18. **Lee, Chyi-Tyi**, C.T. Cheng, C.W. Liao, Y.B. Tsai (2001) Site Classifications of Taiwan free-field strong-motion stations, *Bull. Seism. Soc. Am.*, 91(5), 1283-1297. (SCI)
19. **Lee, Chyi-Tyi**, C.T. Cheng, C.W. Liao, Y.B. Tsai (2001) Data files from "Site classifications of Taiwan free-field strong-motion stations", *Bull. Seism. Soc. Am.*, 91(5), 1386. (SCI)
20. **Lee, Chyi-Tyi** (2001) Holocene Tectonics of Tainan City, Taiwan, *Abstracts of The International Meeting on both Sea-level changes and Coastal Evolution & Neotectonics (INQUA)*, 53-54.
21. Teng, Louis S., **Chyi-Tyi Lee**, C.H. Peng, W.F. Chen, and C.J. Chu (2001) Origin and geological evolution of the Taipei basin, northern Taiwan, *Western Pacific Earth Sciences*, 1(2), 115-142.

22. Kelson, K.I., K.H. Kang, W.D. Page, **Chyi-Tyi Lee**, L.S. Cluff (2001) Representative Styles of Deformation along the Chelungpu Fault from the 1999 Chi-Chi (Taiwan) Earthquake: Geomorphic Characteristics and Responses of Man-Made Structures, *Bull. Seism. Soc. Am.*, 91(5), 930-952. (SCI)
23. Deffontaines, B., C.S. Liu, J. Angelier, **Chyi-Tyi Lee**, J.C. Sibuet, Y.B. Tsai, S. Lallemand, C.Y. Lu, C.S. Lee, S.K. Hsu, H.T. Chu, J.C. Lee, E. Pathier, R.F. Chen, C.T. Cheng, C.W. Liao, C.C. Lin, H.H. Hsu, (2001) Preliminary neotectonic map of onshore-offshore Taiwan, *TAO*, Supplementary Issue, 339-349. (SCI)
24. Lin, Aiming., A. Chen, C.F. Liau, **Chyi-Tyi Lee**, C.C. Lin, P.S. Lin, S.C. Wen, T. Ouchi (2001) Frictional fusion due to coseismic landsliding during the 1999 Chi-Chi (Taiwan) M_L 7.3 earthquake, *Geophys. Res. Lett.*, 28, 4011-4014. (SCI)
25. Fruneau, B., E. Pathier, D. Raymond, B. Deffontaines, **Chyi-Tyi Lee**, H.T. Wang, J. Angelier, J.P. Rudant, C.P. Chang (2001) Uplift of Tainan Tableland (SW Taiwan) revealed by SAR interferometry, *Geophys. Res. Lett.*, 28(16), 3071-3074. (SCI)
26. Chen, Yue-Gau, Wen-Shan Chen, Jian-Cheng Lee, Yuan-His Lee, **Chyi-Tyi Lee**, Hui-Cheng Chang, Ching-Hua Lo (2001) Surface Rupture of the 1999 Chi-Chi Earthquake Yields Insights on Active Tectonics of Central Taiwan, *Bull. Seism. Soc. Am.*, 91(5), 977-985. (SCI)
27. **Lee, Chyi-Tyi**, K. Kelson, K.H. Kang (2000) Hanginwall deformation and its effect to buildings and structures as learned from the Chelungpu faulting in the 1999 Chi-Chi, Taiwan, earthquake, *Proc. Intl. Workshop Ann. Commem. Chi-Chi Earthquake, Taipei*, Vol. I (Science Aspect), 93-104.
28. Teng, Louis S., **Chyi-Tyi Lee**, Y.B. Tsai, L.Y. Hsiao (2000) Slab breakoff as a mechanism for flipping of subduction polarity in Taiwan, *Geology*, 20(2), 155-158. (SCI)
29. Ma, K.F., **Chyi-Tyi Lee**, Y.B. Tsai, T.C. Shin, J. Mori (1999) The Chi-Chi, Taiwan Earthquake: Large Surface Displacements on an Inland Fault: *EOS Trans.*, American Geophysical Union, 80(50), 605 & 611.
30. Deffontaines, B., **Chyi-Tyi Lee**, J. Angelier (1999) Taiwan neotectonics; new insights from precise numerical topography, *Memoires Geosciences-Montpellier*, 14, 293-294.
31. Lacombe, O., F. Mouthereau, B. Deffontaines, J. Angelier, H.T. Chu, **Chyi-Tyi Lee** (1999) Geometry and Quaternary kinematics of fold-and-thrust units of southwestern Taiwan, *Tectonics*: 18(6), 1198-1223. (SCI)
32. Mouthereau, F., O. Lacombe, B. Deffontaines, J. Angelier, H.T. Chu, **Chyi-Tyi Lee** (1999) Quaternary transfer faulting and belt front deformation at Pakuashan (western Taiwan), *Tectonics*, 18(2), 215-230. (SCI)