CURRICULUM VITAE

RUNQIU HUANG, PH.D., PROFESSOR

State Key Lab of Geohazard Prevention and Geoenvironment Protection
Chengdu University of Technolog, Chengdu, Sichuan, 610059, China

Tel: +86-28-8407-8953, +86-1390-8037-005,
Fax: 028-8407-8953
E-mail: hrq@cdut.edu.cn

Date of Birth: August 12, 1963
Place of birth: Changsha City, Hunan Province, China
Citizenship: Chinese

EDUCATION

- **Ph.D.**, Engineering Geology, Chengdu University of Technology, 1988
- **M.S.**, Engineering Geology, Chengdu College of Geology,1986
- **B.S.**, Hydrogeology and Engineering Geology, Chengdu College of Geology, 1983

EMPLOYMENT

- **2016-present:** Deputy-minister at the Ministry of Environmental Protection of P.R.C.
- **2007-present:** Director of State Key Lab of Geohazard Prevention Geoenvironment Protection
- **1999-present:** Professor of Engineering Geology, State Key Lab of Geohazard Prevention Geoenvironment Protection, Chengdu University of Technology.
- **2001-2016:** Vice President of Chengdu University of Technology.
- **1998-1999:** Visiting Professor, the Department of Geology, Hongkong University.
- **1992-1998:** Professor of Engineering Geology, College of Environment and Civil Engineering, Chengdu University of Technology.
- **1989-1992:** Associate Professor of Engineering Geology, Department of Hydrogeology and Engineering Geology, Chengdu College of Geology.
- **1988-1989:** Lecture, Department of Hydrogeology and Engineering Geology, Chengdu College of Geology.

HONOURS AND AWARDS

- 1989: Fork Ying-tong Prize for the Youth, Fork Ying-tong Education Fund, HongKong.
- 1992: Excellent Young Geologists Prize, the Ministry of Geology and Mineral Resources.

- 1993: Special Fund Support for Excellent Young and Mid-aged Scientists, the National Nature Science Fund of China (NSFC).
- 1994: Top Ten Outstanding Youth Prize of Sichuan Province, Sichuan Youth Federation.
- 1994: Golden Hammer Prize for Young Geologists, Geological Society of Geology (CAS).
- 1995: Special Fund Support for Outstanding Young Scientists, the National Nature Science Foundation of China (NSFC).
- 1997: Nomination Prize of Top Ten Chinese Youth, All-China Youth Federation.
- 1996: "Richard Wolters" Honorable Nomination Prize for the Young Engineering Geologists, the International Association for Engineering Geology and the Environment (IAEG).
- 1998: Science and Technology Prize for the Chinese Youth, China Association for Science and Technology (CAST).
- 2002: Huang Jiqing Science and Technology Prize for the Young Geologists, Geological Society of China (CAS).
- 2002: National Outstanding Professionals Prize, the Ministry of Personnel, China.
- 2003: Sichuan Outstanding Science and Technology Contribution Prize, Sichuan Provincial Government.
- 2005: First Prize for National Science and Technology Achievements (Assessment of High Slope Stability and Geohazards Control in Southwestern China), the State Council of China.
- 2007: Li Siguang Geological Science Prize, Geological Society of China (CAS).
- 2007: He-Liang He-Li Science and Technology Prize, He-Liang He-Li Foundation, Hong Kong.
- 2007: Outstanding Teacher Prize, the Ministry of Education, China.
- 2012: International Award, the Japan Landslide Society
- 2013: Golden Prize for Excellent Invention (A Time Controllable Grouting Technique for Complex Rock Strata), National Invention Bureau, China.
- 2014: First Prize for National Science and Technology Achievements (Study on Geohazards Induced by the Wenchuan Earthquake and their Prevention), the State Council of China.

TITLES AND MEMBERSHIP

- Director of State Key Laboratory of Geohazard Prevention and Geoenvironment Protection
- Vice-president of Chengdu University of Technology
- Immediately Past Vice-president of the International Association for Engineering Geology and the Environment (IAEG), 2010-2014.
- Chairman of International Research Association for Large Landslides (IRALL), 2013
- President of Chinese Society for Engineering Geology, CSEG, 2008-2012, 2012-2016.
- Council Member of China Geological Society, 2006, 2011.
- Executive Council Member of Chinese Society for Rock Mechanics and Rock Engineering
- Member of IAEG
- Member of ISRM

RESEARCH INTERESTS

- High geostress and related geoengineering problems
- Rock mass structure investigation and description
- Formation mechanism of large-scale landslides
- Early warning of geohazards and risk control
- Stability analysis of high rock slopes and deformation control
- Numerical and geomechanics modeling in engineering geology

RESEARCH EXPERIENCE

1986-1990:

- *Study on high rock slope stability of Laxiwa Hydro-power station on the Yellow River,* financed by the Xibei Institute of Hydropower Survey and Design, the Ministry of Energy Resources, China (Principle Investigator, PI);
- *Study on mechanical characteristics of the weak belt of the altered basalt at the dam site of the Ertan Hydropower station,* financed by a key project of the state seventh five-year-plan, the Ministry of Science and Technology (participants);
- *Study on bank slope structures in the reservoir area of the Three Gorges Project,* the *Yangtze River*, financed by a key project of the state seventh five-year-plan, the Ministry of Science and Technology (participants);
- *Study on large-scale landslides in the reservoir area of the Three Gorges Project,* the Yangtze River, financed by a key project of the state seventh five-year-plan, the Ministry of Science and Technology (participants);
- *Numerical simulation study on the formation mechanism of the ground fissures in Xi'an city,* financed by Shaanxi Geology and Mineral Resource Bureau (participants).
- *Study on slope stability of mountainous areas suffered by landslides and debris flows in Southwestern and Northwestern China*, financed by the Ministry of Geology and Mineral Resources (participants).

1990-1993:

- *Study on high rock slope stability at the damsite of Xiangjiaba hydropower station, Jinshajiang River,* financed by Central-South Institute of Hydropower Survey and Design, the Ministry of Energy Resources (PI);
- *Systematic engineering geological study of high slope stability,* financed by the National Natural Sciences Foundation of China (NSFC, PI);
- *Study on the formation mechanism of the catastrophic Xikou landslide in Huayingshan area, Sichuan,* financed by Sichuan Bureau of Geology and Mineral Resources (PI);
- *Numerical simulation study on the slope stability of Panzhihua open pit mine,* financed by the Panzhihua Mining Co. Ltd. (PI).

1993-1994:

- *Study on high rock slope stability of the Jinping Hydro-power station, Yalong River,* financed by the Chengdu Institute Hydropower Survey and Design, the Ministry of Energy Resources, China (PI);
- *Study on high slope stability of the Xiaowan Hydro-power station, Lancang River,* financed by the Kunming Institute Hydropower Survey and Design, the Ministry of Energy Resources, China (PI);
- *Study on the failure mechanism of anti-dip slope,* financed by a key project of the state eighth five-year-plan, the Ministry of Science and Technology, China (PI).
- *Study on the surrounding rockmass stability of the large-span underground powerhouse of the Xiaowan Hydro-power station* on the Lancang River, financed by the Kunming Institute of Hydropower Survey and Design (PI);

1994-1997:

- *Study on high geo-stress in southwestern China and its influence on major hydro-power Constructions,* a special project for excellent young scientists supported by the National Natural Sciences Foundation of China (NSFC, PI);
- *Study on the formation mechanism of special engineering geological conditions and their environmental effects,* financed by the Ministry of Land and Resources.(PI)
- *Study on the interaction between the typical human engineering activities and the geological environment,* a key project of the National Natural Sciences Foundation of China (NSFC, participants);
- *Non-linear theory and its application in analysis of geohazard processes*, financed by the Ministry of Education, China (PI).
- *Numerical modelling and its application for geo-hazard predication*, financed by a state special project for outstanding young scientists, the National Natural Sciences Foundation of China (NSFC,PI);
- *Study on rock mass structures at the dam site of the Xiluodu hydropower station,* financed by the Chengdu Institute of Hydropower Survey and Design.(PI)

1997-2000:

- *Study on the high rock slope stability of the ship locks of the Three Gorges Project (TGP),* financed by the TGP Survey and Design Institute (PI).
- *Study on the stability of surrounding rock mass of the large-span underground powerhouse in TGP,* financed by the TGP survey and design institute (PI).
- *Study on the engineered high rock slope stability at the dam site of the Jinping hydropower station,* financed by the Chengdu Institute of Hydropower Survey and Design (PI).
- *GIS-based study on geohazards assessment in small catchments in mountainous area,* financed by the Ministry of Land and Resources. (PI)
- *Feasibility study on the application of Differential Interferometry Synthetic Aperture Radar (D-INSAR) in landslide monitoring,* financed by the Ministry of Land & Resources and European Space Agency (ESA). (PI)

2000-2005:

- *Study on the formation of special geological conditions in southwestern China and its influence on large infrastructure constructions,* finance by the National Natural Science Foundation of China (NSFC, PI).
- *Study on the geological structure of rock mass at the dam site of the Xiluodu hydropower station,* financed by the Chengdu Institute of Hydropower Survey and Design (PI).
- *Study on formation mechanism and properties of the special rock mass and its influence on slope stability at the dam site of the Nuozhadu hydropower station*, financed by the Kunming Institute of Hydropower Survey and Design (PI).
- *Engineering geological study of high rock slope stability during construction in the Xiaowan hydropower station and the supporting countermeasures,* financed by the Lancang River Development Co. Ltd. (PI)
- *Engineering geological study of high rock slope stability during construction in the Zhipingpu hydropower station and the supporting countermeasures*, financed by the Zhipingpu Hydropower Development Co. Ltd. (PI)
- *Prediction models and criteria of typical landslides in TGP Reservoir,* financed by the Ministry of Land and Resources, China.(PI)
- *Study on the cut-slope stability and prevention countermeasures along the Tonglin-Huangshan expressway,* financed by the Construction Company of Tong-Huang Expressway, Anhui province, China. (PI)

2005-2008:

- *Study on high rock slope evaluation of the Yalong river and its influence on slope stability,* financed by key project of the National Natural Science Foundation of China (NSFC, PI).
- *Engineering geological study of high rock slope stability during excavation in the Jinping hydropower station,* financed by Chengdu Institute of Hydropower Survey and Design (PI).
- *Study on the predication and prevention of bank collapse in the TGP Reservoir*, financed by the Ministry of Land and Resources, China.(PI)
- *Study on the stability of rockfalls and its prevention at the dam site of the Jinping hydropower station*, financed by the Ertan Hydropower Development Co. Ltd. (PI).
- *Engineering geological study on the site selection of the Lasha-Linzhi railway*, financed by the No.2 Institute of Railway Survey and Design, China. (PI)
- *Engineering geological assessment and prevention countermeasures on the geohazards along Tianshan highway,* financed by the Research Institute of Xinjiang Transportation. (PI)

2008-2010:

- *Emergency investigation and mapping of geohazards triggered by the "5.12" Wenchuan earthquake,* financed by key project of the National Natural Science Foundation of China (NSFC, PI).
- *Landslides risk assessment and its influence on the reconstruction in severely damaged areas by the Wenchuan earthquake*, financed by the Sichuan province government and the Ministry of Land and Resources, China.(PI)

- *Study on characteristics and formation mechanism of landslides triggered by the Wenchuan earthquake*, financed by “973” key project of the Ministry of Science and Technology, China. (PI)
- *Investigation and risk assessment of geohazards on the lifelines system in damaged area of the Wenchuan earthquake*, financed by the key project of the Ministry of Transportation, China. (PI)
- *Monitoring and assessment of the slope dynamic response under strong earthquakes,* financed by the Ministry of Land and Resources, China.(PI)
- *Engineering geological study on the site selection of Chengdu-Lanzhou railway,* financed by the No.2 Institute of Railway Survey and Design, China. (PI)

2010-2015:

- *Study on the identification of large-scale landslides, precursor judgment and the criteria of early warning,* financed by the “973” project (National Key Basic Research Project), the Ministry of Science and Technology, China. (PI)
- *Geohazard investigation and early warning system construction of the Guizhou province*, financed by the Guozhou province government. (PI)
- *Investigation, monitoring and early-warning of geohazards in southwestern China,* financed by the Ministry of Land and Resources.
- *Study on deformation and failure evolution and stability analysis of high rock slopes under large-scale excavation,* financed by a key project of the National Natural Science Foundation of China (NSFC, PI).
- *Study on the stability of high rock slopes at the dam site of Songta and Maji hydropower station* financed by the Beijing Institute of Hydropower Survey and Design, China. (PI)

2015-2016:

- *Study on the identification of large-scale landslides, precursor judgment and the criteria of early warning,* financed by the “973” project (National Key Basic Research Project), the Ministry of Science and Technology, China. (PI)
- *Geohazard investigation and early warning system construction of the Guizhou province*, financed by the Guozhou province government. (PI)
- *Investigation, monitoring and early-warning of geohazards in southwestern China,* financed by the Ministry of Land and Resources.
- *Study on deformation and failure evolution and stability analysis of high rock slopes under large-scale excavation,* financed by a key project of the National Natural Science Foundation of China (NSFC, PI).
- *Study on the stability of high rock slopes at the dam site of Songta and Maji hydropower station.* Financed by Beijing Institute of Hydropower Survey and Design, China. (PI)

PUBLICATIONS

- ***English journal articles and book chapters:***

1. **Huang Runqiu,** Xu Qiang,1997. Some recent researches on non-linear theory uses in engineering geology. Science Foundation in China. *Bulletin of National Natural Science Foundation of China*, 5(2): 24-29.
2. Z.H. Chen, C. A. Tang, **R.Q. Huang,**1997. A double rock sample model for rockbursts. *Int. J. Rock Mech,* 34(6):991-1000.
3. **Huang Runqiu,** Wang Xianneng, Tan Shengchuan,1998. Influence of alternating thermal stress on the formation of dangerous rock mass in Chongqing Region, *Progress in Natural Science,* 8(6):714-721.
4. **Huang Runqiu,** Xu Qiang,1999. Process simulation and control of geologic hazards. *Progress in Natural Science, Taylor & Francis.* 9(9): 642-647.
5. **Huang Runqiu**, Wang Xianneng,1999. Analysis of Dynamic Disturbance on Rock Burst. *Bulletin of Engineering Geology and the Environment.* 57(3):281-284.
6. **Huang R. Q,** Wang XN, Chan LS, 2001. Triaxial unloading test of rocks and its implication for rock burst, *Bulletin of Engineering Geology and the Environment,* 60(1):37-41.
7. Jianmin Huang, **Runqiu Huang,** Jiu J. Jiao and Chen Kouping, 2007. Speciation and mobility of heavy metals in mud in coastal reclamation area in Shenzhen, China. *ENVIRONMENTAL GEOLOGY,* 53 (1): 221-228.
8. Chen Kouping, Jiao J. J, Huang Jianmin, **Huang Runqiu,** 2007, Multivariate statistical evaluation of trace elements in groundwater in a coastal area in Shenzhen, China. *Environmental Pollution,* 147(3):771-780.
9. Deng, YE, Xie HP, **Huang RQ,** 2007. Law of nonlinear flow in saturated clays and radial consolidation. *Applied Mathematics and Mechanics (English edition).* 28 (11):1427-1436.
10. **Huang Runqiu,** Xiao Huabo, Ju Nengpan, 2007. Deformation Mechanism and Stability of a Rocky Slope. *Journal of China University of Geosciences.* 18(1):77-84.
11. **Runqiu HUANG,** Lizhou WU, 2007. Stability Analysis of Unsaturated Expansive Soil Slope. *Earth Science Frontiers,* 14(6):129-133.
12. **Huang Runqiu,** Dong Xiujun, 2008. Application of Three-Dimensional Laser Scanning and Surveying in Geological Investigation of High Rock Slope. *Journal of China University of Geosciences,* 19(2):184-190.
13. L. Z. Wu, **R. Q. Huang,** 2008. Calculation of the Internal Forces and Numerical simulation of the Anchor Frame Beam Strengthening Expansive Soil Slope. *Geotechnical and Geol. Eng.,* 26:493-502.
14. Zhi Wang, **Runqiu Huang**, Jinli Huang, Zhenhua He,2008. P-wave velocity and gradient images beneath the Okinawa Trough, *Tectonophysics,*455: 1-13.
15. Wang JZ, **Huang RQ,** Li ZQ,2008. Na-metasomatism of root facies of hydrothermal deposite in Xiaowan area, Southwestern China. *Geochimica ET Cosmochimica, ACTA,*72(Suppl.1): A997.
16. Wang, Z, Y. Fukao, S. Kodaira, and **R. Huang,** 2008, Role of fluids in the initiation of the (2008) Iwate earthquake (M7.2) in northeast Japan. *Geophys. Res. Lett,* 35: L24303, doi10.1029 / (2008) GL035869.

17. **Runqiu Huang**, Zhi Wang, Shunping Pei, Yunsheng Wang, 2009. Crustal ductile flow and its contribution to tectonic stress in Southwest China. *Tectonophysics,*473:476-489. Doi:10. 1016/j. tecto. 2009.04.001.
18. **Huang Runqiu,**2009. Some catastrophic landslides since the 20th Century in the southwest of China. *Landslides,* 6(1): 69-82.
19. **Huang R.Q**, Li, W. L.,2009. Development and Distribution of geohazards Triggered by 5.12 Wenchuan Earthquake in China. *Science in China (Series E)-Technological Sciences,* 52(4): 810-819 .
20. **Huang Runqiu**, Li Weile,2009. Analysis of the geo-hazards triggered by the 12 May (2008) Wenchuan Earthquake, China. *Bull. of Engineering Geology and the Environment.* 68(3): 363-371. DOI: 10.1007/s 10064-009- 0207-0.
21. Qiang Xu, Xuan-Mei Fan, **Run-Qiu Huang,** 2009. Landslide dams triggered by the Wen chuan Earthquake, Sichuan Province, southwest China. *Bull. of Engineering Geology and the Environment.* 68(3):373-386, DOI:10.1007/s10064-009 -0214-1.
22. Huang Runqiu, Li Yusheng, Li Weile, 2009. Engineering Geological Evaluation of Reconstruction Sites following the Wenchuan Earthquake. *Bull. of Engineering Geology and the Environment,* 68(4): 449-458, DOI: 10.1007/s10064-009-0225-y.
23. **Runqiu Huang,** Huabo Xiao,2009. Deformation mechanism of a shallow double–arch tunnel in a slopping rock mass. *Bulletin of Engineering Geology and the Environment,*, 69(1): 89-97, DOI: 10.1007/s10064-009-0240-z.
24. Wang Z., Zhao DP, **Huang RQ,** Tan XR, Mishra OP,2009. Structural Heterogeneity in Northeast Japan and its Implication for the Genesis of the 2004 and 2007 Nigata Earthquake. *Bulletin of the Seismological Society of America,* 99(6): 3355-3373.
25. Qiang Xu, Xuanmei Fan, **Runqiu Huang**. Yueping Yin, 2009. A catastrophic rockslide-debris flow in Wulong, Chongqing, China in 2009, background, characterization causes. *Landslides,* 6(5).
26. Qiang Xu, Minggao Tang and **Runqiu Huang**, 2009. An Evaluation Study of Bank Collapse Prediction in the Three Gorges Reservoir Area. Environmental Science and Engineering. *Landslide Disaster Mitigation in Three Gorges Reservoir, China, 1*, pp 147-172.
27. Yi Xu, Zhiwei Li, **Huang Runqiu** & Ya Xu, 2009. Seismic structure of the Longmen Shan region from S‐wave tomography and its relationship with the Wenchuan Ms 8.0 earthquake on 12 May 2008, southwestern China. *Geophysical Research Letters,* Vol. 37, L02304, doi:10.1029 /2009GL041835, 2010.
28. **Huang Runqiu,** Feng Lin, Ming Yan, 2010. Deformation mechanism and stability evaluation for the left abutment slope of Jinping I Hydropower Station. *Bull. of Engineering Geology and the Environment,*68(3) :365-372, DOI: 10.1007/s10064-010-0283-1.
29. **Huang Runqiu**, Liu Weihua, Zhou Jiangping, Pei Xiangjun, 2010. Experimental Field Study of Movement Charateristics of Rock Block Falling down a Slope. *Journal of Earth Science,* 21(3): 330–339. DOI: 10.1007/s12583-010-0096-y.
30. Peng, M., Zhang, L.M., and **Huang, R.Q,** 2010. Risk analysis of Tangjiashan Landslide Dam. *ASCE Geotechnical Special publication* No*.* 199, ASCE Press, doi 10.1061/41095 (365)222.
31. Yi Xu, Zhiwei Li, **Runqiu Huang**, Jianhua Liu and JinSong Liu, 2010. Pn-wave velocity and anisotropy of the western Sichuan and Longmen Mountain region, China, *SCIENCE CHINA Earth Sciences,* 53(11):1665-1670.

32. **Huang Runqiu,** Li Weile, 2010. Characteristics of earthquakes in mountain areas and post-earth -quake management. Managing Fragile Regions (editors: Carla Freeman and Rongxing Guo). Springer.
33. **R. Q. Huang**, M.Yan, F. Lin, 2010. Study on the key engineering geological problems of the high rock slope at the left abutment of the Jinping I hydropower station, China. Geologically Active (editors: A. L. Willams et. al.), pp255-275, CRC Press/Balkema, Taylor & Francis Group, London.
34. **HUANG Runqiu,** 2011, Geo-engineering lessons learned from the 2008 Wenchuan earthquake in Sichuan and their significance to reconstruction. *Journal of Mountains Science,* 8(2):163-176.
35. **HUANG Runqiu**, XU Qiang, HUO Junjie, 2011. Mechanism and Geo-mechanics models of Landslides triggered by "5.12" Wenchuan Earthquake. *Journal of Mountains Science*, 8(2): 1870-197.
36. Wang Yunsheng, **Huang Runqiu**, Luo Yonghong, Xu Hongbiao, 2011. The genetic mechanism of Wenchuan earthquake. *Journal of Mountains Science,* 8(2): 317-325.
37. Ju Nengpan, Zhao Jianjun, **Huang Runqiu,** Duan Haipeng, 2011. Dynamic design and construction of highway cut slopes in Huangshan area, China. *Journal of Mountains Science,* 8(2): 233-244.
38. Hu Xiewen, Luo Gang, Lv Xiaoping, **Huang Runqiu**, Shi Yubin, 2011. Analysis on dam-breaking mode o Tangjiashan barrier dam in Beichuan County. *Journal of Mountains Science,* 8(2): 235-243.
39. Zhi Wang, Jian Wang, Zhiliang Chen, Yuping Liu, **Runqiu Huang,** Shunping Pei, Qingzhi Zhang, Wenqing Tang, 2011.Seismic imaging, crustal stress and GPS data analyses: Implica -tions for the generation of the 2008 Wenchuan Earthquake (M7.9), China, *Gondwana Research,* 19: 202-212.
40. Robert N. Parker, Alexander L. Densmore, Nicholas J. Rosser, Marcello de Michele, Li Yong，**Huang Runqiu**，Siobhan Whadcoat and David Petley, 2011. Mass wasting triggered by the 2008 Wenchuan earthquake is greater than the orogenic growth. *Nature Geoscience,* DOI: 10.1038/NGEO1154.
41. Gorum, Tolga, Fan, Xuanmei, van Western, Cees J., **Huang, Run Qiu,** Xu, Qiang, Tang, Chuan, Wang, Gonghui, 2011, Distribution pattern of earthquakeinduced landslides triggered by the 12 May 2008 Wenchuan earthquake, *Geomorphology*,doi:10.1016/j.geomorph. 2010. 12.030.
42. **Huang Runqiu**, Wang Yunsheng, Wang Shitian, Li Yusheng, 2011. High geo-stress distribution and high geo-stress concentration area models for eastern margin of Qinghai-Tibet plateau, *Science China (Technological Science),* Supp.1:154-166, DOI: 10.1007/ s11431-011-4652-1.
43. **Runqiu Huang**, Xiangjun Pei, Xuanmei Fan, Weifeng Zhang, 2011. The characteristics and formation mechanism of the largest landslide triggered by the Wenchuan Earthquake, May 12, 2008, China. *Landslides*, DOI 10.1007/s10346-011-0276-6.
44. **Runqiu Huang**, Weile Li, 2011. Formation, distribution and risk control of landslides in China. Journal of Rock Mechanics and Geotechnical Engineering. 3 (2): 97–116.
45. Z. Wang, **R Q Huang** and Jian Wang, 2011. Regional Flow in the Lower Crust and Upper

Mantle under the Southeastern Tibetan Plateau, *International Journal of Geosciences*. on line.

46. D. S. Chang, L. M. Zhang, Y. Xu, **R. Q. Huang,** 2011. Field testing of erodibility of two landslide dams triggered by the 12 May Wenchuan earthquake. *Landslides*, 8(3): 321-332.
47. Qingqing Yang , Fei Cai, Keizo Ugai, Masao Yamada, Zhiman Su, Aly Ahmed, **Runqiu Huang**, Qiang Xu, 2011. Some factors affecting mass-front velocity of rapid dry granular flows in a large flume, *Engineering Geology*, 122: 249–260.
48. Enlong Liu, **Runqiu Huang** and Siming He, 2011. Effects of Frequency on the Dynamic Properties of Intact Rock Samples Subjected to Cyclic Loading under Confining Pressure Conditions *Rock Mechanics and Rock Engineering,* DOI: 10.1007/s00603-011-0185-y.
49. Zhiwei Li, Yi Xu, **Runqiu Huang,** TianYao Hao and Ya Xu, et al, 2011. Crustal P-wave velocity structure of the Longmenshan region and its tectonic implications for the 2008 Wenchuan earthquake. *SCIENCE CHINA Earth Sciences*, 54(9):1386-1393.
50. T-K Nian, **R-Q Huang**, S-S Wan, G-Q Chen, 2012. Three-dimensional strength reduction finite element analysis of slopes: geometric effects. *Canadian Geotechnical Journal*. 49:574-588, doi:10.1139/T2012-014.
51. **R. Q. Huang**, L. Z. Wu, 2012. Analytic solutions to 1D horizontal and vertical water infiltration in saturated/unsaturated soils considering time-varying rainfall. *Computers and Geotechnics* 39: 66–72.
52. **Runqiu Huang,** 2012. Mechanisms of large-scale landslides in China. *Bulletin of Engineering Geology and the Environment:* 71(1):161-170, DOI: 10.1007/s10064-011-0403-6.
53. Wu Lizhou, Zhang Liming, **Huang Runqiu,** 2012. Analytical solution to 1D coupled water infiltration and deformation in two-layer unsaturated soils. *International Journal for Numerical and Analytical Methods in Geomechanics.* 36: 798-816. DOI: 10.1002/ nag.1044.
54. L Z. Wu, **R. Q. Huang,** Q. Xu, 2012. Incorporating hysteresis in one-dimensional seepage modeling in unsaturated soils. *KSCE Journal of Civil Engineering*. 16(1C):69-77. DOI:10. 1007/ s12205-012-1377-z.
55. Yunsheng Wang, **Runqiu Huang**, Yonghong Luo, 2012. Tectonic Background of the Wenchuan Earthquake. *Earthquake Research and Analysi.* Seismology, Seismotectonic and Earthquake Geology (editor: Sebastiano D'Amico), Chapter 11, ISBN 978-953-307-991-2, pp183-202.
56. Yang Qingqing, Cai Fei, Ugai Keizo, Su Zhiman, **Huang Runqiu,** Xu Qiang, 2012. A simple lumped mass model to describe velocity of granular flow in a large flume. *Journal of Mountain Science*, 9(2): 221-231. Doi: 10.1007/s11629-012-2250-8.
57. Tu Guoxiang, **Huang Runqiu**[C], Deng Hui, Li Yanrong, 2012. Sedimentary Characteristics of the Pleistocene Outwash Accumulation and their Implications for Paleoclimate Change in the Midstream of Dadu River, Southwestern China. Acta Geologica Sinica(English Edition)，86(4):924-931.
58. Gonghui Wang, **Runqiu Huang**, Toshitaka Kamai, Fanyu Zhang, 2012. On the internal structure and stability of a landslide dam formed by long travelling landslide: a case study on Tianchi landslide dam triggered the 2008 Sichuan earthquake (Japanses). *Journal of the Japan Landslide Society*, 49(4):34-43.
59. **R. Q. Huang**, W. L. Li, 2012. Co-seismic fault effect of landslides triggered by Wenchuan Ms8.0 earthquake, China. *New Fronties in Engineering Geology and the Environment*

(Editors: Yu Huang, Faquan Wu et al), pp1-12, Springer.

60. Wenkai Feng, **Runqiu Huang,** Tianbin Li, 2011. Deformation analysis of a soft–hard rock contact zone surrounding a tunnel. *Tunnelling and Underground Space Technology*, 32: 190-197.
61. Jianguo Liu, Phillippa J. Mason, Eric Yu, Meng-Che Wu, Chuang Tang, **Runqiu Huang**, Hanhu Liu, 2012. GIS modelling of earthquake damage zones using satellite remote sensing and DEM data. *Geomorphology,* 139:518-535.
62. Xuanmei Fan, Cees J. Van Westen, Oliver Korup, Tolga Gorum, Qiang Xu, Fuchu Dai, **Runqiu Huang**, Gonghui Wang, 2012. Transient water and sediment storage of the decaying landslide dam induced by the 2008 Wenchuan earthquake, China. *Geomorphology*, 171-172: 58-68.
63. **Runqiu Huang,** Jiang Huang, Nengpan Ju, He Chaoyang, Li Weile, 2012. Web-Dis based information management system for landslides triggered by Wenchuan earthquake. *Natural Hazards*, 65(3): 1507-1517.
64. Densmore Alexander L. Parker, Robert N. Rosser, Nicholas J.de Michele, Marcello, Li Yong, **Huang Runqiu**, Whadcoat, Siobhan, Petley, David N., 2012. Isostasy can't be ignored reply, *NATURE GEOSCIENCE*, 5(2): 83-84.
65. Chen G. Q., **Huang R. Q**., Xu Q., Li T. B.,2012. Prevention of the Natural Landslide Disaster Based on the Deformation Management Level. *DISASTER ADVANCES*, 5(4):1389-1394.
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317. Wu Li-Zhou, **Huang Runqiu.** A numerical analysis of the infiltration and parameter effects in unsaturated soils. *Hydrogeology and Engineering Geology*, 2011, 38(1): 94-98.
318. Pei Xiangjun, **Huang Runqiu**, Li Zhengbing, Luo Jianlin. Research on grouting reinforcement of unloading fractured loose rock mass in left bank of the Jinping I hydropower station. *Chinese Journal of Rock Mechanics and Engineering,* 30(2) (2011): 284-288.
319. **Huang Runqiu,** Huo Junjie. Quantitative analysis of rock mass block index for dam foundation of the Jinping i hydropower station. *Chinese Journal of Rock Mechanics and Engineering*, 30(3) (2011): 449-453.
320. **Huang Runqiu**. After effect of geo-hazards induced by the Wenchuan earthquake. *Journal of Engineering Geology*, 19(2) (2011): 145-151.
321. Zhang Ying ,**Huang Runqiu,** Yanming, Huo Junjie. Discussion on applicability of laslett algorithm and generalized H-H algorithm under different levels of trace lengths. *Journal of Engineering Geology*, 19(2) (2011): 238-243.
322. Huang Da, **Huang Runqiu**, Zhang Yongxing. Experimental investigations on static loading rate effects on mechanical properties and energy mechanism of coarse crystal grain marble under uniaxial compression. *Chinese Journal of Rock Mechanics and Engineering,* 2012, 31(2)：245-255.
323. **Huang Runqiu**. Engineering geology in China at the beginning of the new century. *Journal of Engineering Geology*, 2012,(06): 1083-1086.
324. **Huang Runqiu,** Li Guo, Ju Nengpan. Shaking table test on strong earthquake response of stratified rock slopes. *Chinese Journal of Rock Mechanics and Engineering*, 32 (5)(2013): 865-875.
325. **Huang Runqiu**, Wang Yunsheng, Pei Xiangjun, Li Yusheng, Luo Yonghong. Characteristics of co-seismic landslides triggered by the Lushan Ms7.0 earthquake on 20th April, 2013 Sichuan province, China. *Journal of southwest Jiaotong university,* 48(4)(2013): 581-589.
326. **Huang Runqiu,** Liguo, Ju Nengpang, A shaking table test for dynamic response of stratified rock slope und strong earthquake. Chinese Journal of , mechanics and Engineering. 32 (5)(2013): 865-875.
327. **Huang Runqiu,** Wang Yunsheng, Pei Xiangjun, Li Yunsheng, Li Weile, Luo Yonghong. Investigation of landslides triggered by 4.20 Lushan Ms7.0 earthquake, Journal of Xinan Jiatong University, 48(4)(2013): 581-589.
328. **Huang Runqiu,** Zhang Weifeng, Pei Xiangjun. Engineering geological study on Daguangbao landslide. Chinese Journal of Engineering Geology, 2014, 22(4): 557-585.
329. Yuan Jinke, **Huang Runqiu,** Pei Xiangjun, Test study of impact force of rolling rock blocks. Chinese Journal of Rock and Soil Mechanics, 2014(1)，pp 48-54.
330. Zhang Xiaochao, **Huang Runqiu,** Xu Mo, etc. Vibration liquefaction of loess and its influence factors in Shibeiyuan area. Chinese Journal of Rock and Soil Mechanics, 2014(3), 901-810.

- ***Monograph:***

331. **Huang Runqiu**, Zhang Zhuoyuan, Wang Shitian, Engineering Geological Study on High

Rock Slope Stability at the Laxiwa Hydropower Station. Publishing House of Chengdu University of Sci. and Tech., Chengdu, 200p, 1991.

332. Shang Yuequan, **Huang Runqiu**, Numerical Simulation Methods in Engineering Geology Research. Publishing House of Chengdu University of Sci. and Tech., Chengdu, 206p, 1992.
333. **Huang Runqiu**, Deng Ronggui, Full-course Mass Movement Numerical Simulation of High Rock Slopes. Publishing House of Chengdu University of Sci. and Tech.. Chengdu, 220p, 1993.
334. Pan Bietong, **Huang Runqiu**. Numerical Simulation in Engineering Geology (Text Book). Geology Press, Beijing, 219p, 1993.
335. **Huang Runqiu**, Wang Shitian, Hu Xiewen. Study on the Major Engineering Geological Problems at the Xiaowan Hydropower Damsite, Publishing House of Chengdu University of Sci. and Tech., Chengdu, 360p,1996.
336. **Huang Runqiu**, Xu Qiang. Non-linear Theory and its Application in Engineering Geology. Geology Press, Beijing, 150p,1997.
337. Wang Laigui, **Huang Runqiu**, Zhang Theory and Application of Dynamic Stability for Rock Mechanics System. Geology Press, Beijing, 163p, 1998.
338. He Zhenghua, **Huang Runqiu(**editors), Engineering and Environmental Geophysics for 21st Century (English), Sichuan Science and Technology Publishing House, Chengdu, 370p, 1997.
339. **Huang Runqiu**, Dong Xiaobi (translator), Large scale landslides and rockfalls in reservoir are of the Yangtze Gorges Project (English), Hong Kong, 1997
340. Wang Shitian, **Huang Runqiu**, Li Yusheng. Study on the Major Engineering Geological Problems in Jinping Hydropower Station, Publishing House of Chengdu University of Sci. and Tech., Chengdu, 270p,1998.
341. Xu Xeming, **Huang Runqiu**. Geohazard Assessment in Deep Tunnel. Publishing House of Southwest Jiatong, Chengdu, 220p, 2000.
342. Fang Xianchi, **Huang Runqiu**. Geohazard Assessment and Control in Highway Construction. Publishing House of Sichuan University, Chengdu, 220p, 2000.
343. **Huang Runqiu,** Wang Shitian, Zhang Zhuoyuan, Liu Hanchao, Dynamic Process of the Earth's Superficial Crust and its Influence on the Major Construction. Geological Press, Beijing, 536p, 2001.
344. **Huang Runqiu,** Xu Qiang, Tao Liangjin. Process Simulation and Control of Geohazards, Science Press, Beijing, 270p, 2002.
345. Su Shenrui, **Huang Runqiu,** Wang Shitian. The Influence of Fractures on Geostress and Engineering Effects. Science Press, Beijing, 175p,2002.
346. **Huang Runqiu**, Xu Mo, Chen Jiangping, Hu Xiewen, Fang Liuming. Description and Probabilistic Models for Complicated Rockmass Structures, Science Press, Beijing, 397p, 2004.
347. **Huang Runqiu**, Xu Qiang, Qi Guoqing. Assessment and Predication of Landslide Induced by Rainfall and Reservoir. Science Press, Beijing, 337p, 207.
348. **Huang Runqiu**, Xu Xiangning, Tang Chuan, Xiang Xiqiong. Assessment of Regional Geological Environment and Geohazards Management. Science Press, Beijing, 397p, 2008.
349. **Huang Runqiu**, Xu Qiang. Catastrophic Landslides in China. Science Press, Beijing, 553p, 2008.

350. Wang Zhi, **Huang Runqiu,** Wang Xuben, He Zhenhua. Structural heterogeneities and dynamics under the Western Pacific subduction zones (English). Sichuan Science and Technology Publishing House, Chengdu, 224p, 2008.
351. Xu Qiang, **Huang Runqiu**. Study on Bank Collapse of Valley Type Reservoir. Science Press, Beijing, 249p, 2009.
352. Huang Runqiu, Tang Chuan, etc. Geohazards Triggered by the Wenchuan Earthquake. Science Press, Beijing, 944p, 2009.
353. Xu Qiang, Pei Xiangjun, **Huang Runqiu**. Large-scale Landslides Triggered the Wenchuan Earthquake. Science Press, Beijing, 473p，2009.
354. **Huang Runqiu**. Engineering Geological Analysis of High Rock Slope Stability. Science Press, Beijing, 655p, 2012.

PRESENTATION

- ***Keynote and invited speaker (lectures) in international symposium and seminar since 1999:***

1. R. Q. Huang, Full-course numerical simulation of hazardous landslides and falls, 1996， 7th Inter. Symp. on landslides, Trondehim, Norway. **Speaker.**
2. R. Q. Huang, Mechanism Analysis of Xikou landslide, 1996, 30th International Geological Congress, Beijing. **Speaker.**
3. R. Q. Huang, Man-induced Landslides in China Since 1980s, June 20, 1999. Hong Kong University of Science and Technology, **invited lecture (seminar)**.
4. R. Q. Huang, High rock slope stability in western China, Jan. 9, 2003, Earth Science Department of Alabama university, Alabama, **invited lecture (seminar).**
5. Huang Runqiu, Deformation patterns and large landslides mechanism in western China. June. 15, 2004. International Symposium of Earth Science Frontiers: the earth, environment and human beings (the 4th annual of IPACE), Chengdu, **Speaker**.
6. R. Q. Huang, High geo-stress: Originality, d·istribution and related geo-engineering issues, June 4, 2007, China- UK Geo-hazard Forum, Chengdu, **Speaker**.
7. R. Q. Huang, Wenchuan earthquake and its induced geo-hazards, June 19, 2008, Asian-Pacific Symposium on Structural Realibility and Its Applications (APSSRA'08), HKUST, Hong Kong, **Keynote speaker**.
8. R. Q. Huang, Wenchuan earthquake and its induced geo-hazard. June 20, 2008, Hong Kong Geological Society, HKU, Hong Kong, **Invited lecture (seminar)**.
9. R. Q. Huang, Wenchuan earthquake and its induced geo-hazards, June 23, 2008, Japan Landslide Society, Sendai, Japan, **Invited lecture**.
10. R. Q. Huang, Historic large-scale landslides in China: Case studies, July, 3, 2008, The 10th International Symposium on Landslides and Engineered slopes. Xian. **Keynote speaker**.
11. R. Q. Huang, Distribution and mechanism of Wenchuan earthquake-induced geohazards. EUOENG' 2008. Sept.15, 2008, International Association for Engineering Geology and

Environment, Spanish National Group. Madrid (Madrid Poly-tech. University), Span, **Keynote speaker**,

12. Huang Runqiu, Distribution and mechanism of Wenchuan earthquake-triggered geohazrds, Oct.10, 2008, China-Japan Meeting of Earthquake Disaster Prevention and Mitigation, Chengdu, **Invited Speaker**.
13. Runqiu Huang, Wenchuan Earthquake and its induced geohazards, Oct. 18,2008,Sino-Korea Engineering Geology Forum: Geological Problems with High in-situ Stress in Large Geo-engineering Projects. IAEG China Group, IAEG Korea Group and Ertan Hydro Co. LTD. Xichan, China, **invited lectures.**
14. R. Q. Huang, Distribution of geohazards and mechanism of large-sacle landslides triggered by Wen -chuan Earthquake, Nov. 6, 2008, International workshop on Earthquake and Geo-hazards. Chengdu, **Invited lectures**.
15. R. Q. Huang, Distribution and Mechanism of Landslides triggered by Wenchuan Earthquake, Feb. 2, 2009, Joint Symposium on Symbiotic approaches for disaster mitigation learnt from Kobe, Java-mid and Sichuan earthquakes by KU, CDUT and GUT, Kobe University, Kobe, Japan, **Invited speaker.**
16. R. Q. Huang, Historic large-scale landslides in China: Case studies. Invited lecture, March 26, 2009, Korea Institute of Construction Technology. Seoul, Korea, **Invited lecture**.
17. R. Q. Huang, Distribution and mechanism of landslides triggered by 5.12 Wenchuan earthquake in China, March 27, 2009, 2009 Spring KGS Geotechnical Engineering Conference, Hanyang University, Korea. **Keynote speaker**.
18. R. Q. Huang, Distriubution pattern and formation mechanism of geohazards triggered by Wechuan Earthquake, May 29, 2009, The 2nd International Conference on Earth Observation for Global Changes (EOGC2009), Chengdu, **Invited speaker**.
19. R. Q. Huang, Geo-engineering lessons learned from “5.12” Wenchuan Earthquake and their significance to the poster-disaster reconstruction, Sept. 9, 2009, International Symposium of Main Engineering Geological Problems in Major Engineering Construction Projects in combination with the 7th Asian Regional Conference of IAEG. The China National Group of IAEG, Chengdu. **Keynote speaker**.
20. R. Q. Huang, Distribution Rules and Mechanism of landslides triggered by Wenchuan earthquake, Nov. 24, 2009, International Joint Symposium on Geodisaster Prevention and Geo-environment in Asia, JS-Fukuoka 2009. Fukuoka, Japan. **Keynote lecture**.
21. R. Q. Huang, Overview of landslides in China. April 13, 2010, Expert workshop on: Assessing the state of art of landslide hazard and risk assessment in the P.R. of China, Organized by SKLGP and the United Nations University– ITC School on Geo-information for Disaster Risk Management. Chengdu, **Keynote lecture**.
22. R. Q. Huang, Distribution and mechanism of large-scale landslides triggered by Wenchuan Earthquake, May 30，2010，SKLGP-GEER Earthquake-triggered Landslides Workshop, Chengdu University of Technology, Chengdu, **Speaker**.
23. R. Q. Huang, Distribution and mechanism of landslides triggered by Wenchuan Earth -quake, Aug 05，2010，SKLGP-MU(Missouri Uni., USA) Geohazards Seminar, **Speaker**.
24. R. Q. Huang, Landslides triggered by Wenchuan Earthquake, Aug 12，2010，SKLGP-Shimani University (Japan) Geohazards Seminar, **Invited speaker**.

25. Runqiu Huang. Unloading Properties of Granites from the Three Gorges in high geostress, China. Sept. 7, 2010, the 11th Congress of IAEG. Auckland, Newzealand, **Speaker**.
26. Runqiu Huang. Study on the Key Engineering Geological Problems of the High Rock Slope at the Jinping I Hydro-power Station, China. Sept. 9, 2010, the 11th Congress of IAEG. Auckland, Newzealand. **Invited Speaker**.
27. Runqiu Huang. Landslides Triggered by 5.12 Wenchuan Earthquake: Distribution, Mechanism and Mitigation measures. Feb.15, 2011, seminar in University of California–Los Angeles (UCLA). **Invited lecture.**
28. Runqiu Huang. Landslides Triggered by 5.12 Wenchuan Earthquake: Distribution & Mechanism. Feb.16, 2011, seminar in University of California–Berkeley (UCB). **Invited lecture**.
29. Runqiu Huang. Landslides Triggered by 5.12 Wenchuan Earthquake: Distribution, Mechanism and Mitigation measures. Feb.17, 2011, seminar in University of Washington (UW). **Invited lecture.**
30. Runqiu Huang. Geoengineering lessons learnt from Wenchuan earthquake and their revelations to the post-disaster reconstruction. March 14, 2011, Interim workshop on supporting sustainable post-earthquake recovery in China. Sponsored by: Ministry of Finance, China, Global facility for disaster reduction and recovery, The World Bank. Chengdu, China. **Invited lecture.**
31. Runqiu Huang. Analysis on the post-earthquake geohazards effects in the Wenchuan earthquake area, May 12, 2011, International Symposium on Earthquake Induced Landslides and Disaster Mitigation at the Third Anniversary of the Wenchuan Earthquake. Organized by SKLGP and China National Group of IAEG. CDUT Hotel, Chengdu. **Keynote speaker**.
32. Runqiu Huang. Engineering Geological Assessment and Georisk Control of Linear Construction in Extremely Geologically Active Area: a Case Study of Cheng-Lan Railway., Sept. 6, 2011, International Conference on Environmental Geosciences and Engineering Survey for Territory Protection and Population (EngeoPro-2011), Moscow, 6-8.09.2011. **Keynote lecture**
33. Runqiu Huang. Landslides and their risk control in China. Oct. 21,2011, The 12th ISRM International Congress on Rock Mechanics. National Conference Center, Beijing. **Invited Speaker in China afternoon**.
34. Runqiu Huang，Landslides Triggered by the 5.12 Wenchuan Earthquake：Distribution, Mechanism and Mitigation measures. Nov. 21, 2011, LARAM- Asia courses, SKLGP-Salerno- ITC NU, Chengdu. **Invited lecture.**
35. Runqiu Huang. Landslide and its risk control in China, Nov.24, 2011, speech in Global Summit of Research Institute for Disaster Risk Reduction: seminar of geohazrds group, Kyoto University, Uji, Japan. **Speaker.**
36. Runqiu Huang. Geo-engineering lessons learned from the 2008 Wenchuan earthquake and their significance in post-disaster reconstruction. June 29, 2012. The 30th Anniversary Conference -The Geological Society of Hong Kong, Hong Kong. **Invited lectures**.
37. Runqiu Huang. Large-scale landlsides in China: Characteristics and Mechanism. July 15, 2012. Seminar of Giant Landslides Club, organized by SKLGP，Chengdu. **Speaker**.
38. Runqiu Huang. Landslides events and risk control in China. Sept. 3, 2012. LARAM meeting,

2012. Organized by university of Salerno. Ravello, Italy. **Invited Speaker** (45 minutes).

39. Runqiu Huang. Landslides and risk control in China, Sept.5, 2012, Riflessioni e line di indirizoo per I PsAl sul rischio da frana a dieci anni dalla loro presentazione, Ravello, Italy. **Keynote speaker.**
40. Runqiu Huang. Disaster Risk Management after the 2008 Wenchuan earthquake and lessons from post-quake reconstruction. Sept.07, 2012, ITC, Enschede, Holland. **Invited speaker**.
41. Runqiu Huang. Mechanism of Large-scale Landslides induced by strong earthquakes,. Sept.09, 2012. First International Symposium on New Techniques for Geohazards Research and Management. In Commemoration of the Zhouqu 2010 Debris Flow Disaster, Gansu Province, China. Lanzhou university, Lanzhou, China. **Keynote speaker**.
42. Runqiu Huang. Large scale landslides and risk control in China. Sept.15, 2012, The Sino-Germany workshop (GZ849): Monitoring and Early Warning of Geohazards Under Global Climate Changes, Sino-Germany Center for Science Promotation, NSFC, DFG, Institute of Geology and Geophysics, CAS, RWTH, Aachn University. Beijing. **Speaker**.
43. Runqiu Huang. Landslides induced by strong earthquakes in China: Characteristics and Mechanism. Sept.20,2012. International Symposium on Coastal Engineering, Tongji University and IAEG, Shanghai, China. **Keynote lecture**.
44. Runqiu Huang, Guo Li, Nengpan Ju, Jianjun Zhao. Ground motion response of slopes and large-scale landslides mechanism during strong earthquakes. Nov.7, 2012, The International Symposium on Earthquake-induced Landslides, ISEL- Kiryu' 2012, **Keynote Speaker**.
45. Runqiu Huang, Large scale landslides induced by strong earthquakes: characteristics and mechanism. Nov. 12, 2012. LARAM school – second Asia courses, SKLGP- Saleno- ITC NU, Chengdu. **Invited lecture**.
46. Runqiu Huang, Five years on: what have we learnt from the Wenchuan earthquake. 12 May, 2013. The International Symposium in Commemoration of the 5th Anniversary of the 2008 Wenchuan Earthquake-Long Term Geo-Hazard and Risk Consequences of Areas Struck by High Magnitude Earthquakes, Organized by SKLGP/CDUT, IAEG, NSFC, Chengdu University of Technology. **Keynote Speaker**.
47. Runqiu Huang, Five years on: what have we learnt from the Wenchuan earthquake. 18 May, 2013. The Fifth China- Japan Geotechnical Symposium, The Chinese Institute of Soil Mechanics and Geotechnical Engineering –The China Civil Engineering Society (CISMGE-CCES) & The Japanese Geotechnical Society (JGS), May, 18-19,2013, Emei, China. **Keynote Speaker**.
48. Runqiu Huang, What behinds the landslide: a story from the Wenchuan earthquake. 19 June, 2013. First Joint Meeting of Geological Society of China and Geological Society of America. Organized by Geological Society of China, and hosted by CDUT. Jingjian Hotel, Chengdu. **Plenary lecture**.
49. Runqiu Huang, What behind the landslides: Story from the Wenchuan earthquake. 29 Aug. 2013. The 52th Annual Conference of the Japan Landslides Society. Japan Landslides Society, Matsu city (Yonago), Janpan. **Keynote Speaker**.
50. Runqiu Huang, Prelimilary understanding to the deformation mechanism of Guopu Slope at Laixwa Hydropower. 30 Aug. 2013. the 52th Annual Conference of the Japan Landslides Society. Japan Landslides Society, Matsu city(Yonago), Janpan. **Speaker**.

51. Runqiu Huang, Geohazards zoning in China. 6 Sept. 2013, Lecture for 2013 LARAM school course. Salerno University, Salerno. (90min.).
52. Runqiu Huang. Geohazards zoning in strong earthquake areas. 6 Sept. 2013. **Invited Lecture** for 2013 LARAM school course. Salerno University, Salerno. (60min)
53. Runqiu Huang, Large-scale hydropower projects and high slope stability. 24 Sept. 2013. International symposium of "Global View of Engineering Geology and the environment" and the 9th Asian Regional Conference of IAEG, IAEG National Group of China. Wuzhou Grand Hotel, Beijing. **Invited speaker**.
54. Runqiu Huang, Overview of catastrophic landslides in China. 25 Sept. 2013. International symposium of "Global View of Engineering Geology and the environment" and the 9th Asian Regional Conference of IAEG, IAEG National Group of China. Wuzhou Grand Hotel, Beijing. **Speaker**.
55. Runqiu Huang, Cosesmic landslides and post-earthquake geohazards of the Wenchuan Earthquake, 2013.12.09. 2013 AGU Falling Meeting, Moscone South 307#, Los Angles, USA. I**nvited speaker**.
56. Runqiu Huang,Unusual behavior of loess landslides triggered by the 1920 Haiyuan earthquake (Ms8.5). 2014.04.29, Japan Geoscience Union Meeting 2014 (JpGU 2014, JpGU International Symposium 2014), I**nvited speaker..**
57. Runqiu Huang. Unusual behavior of loess landslides triggered by the 1920 Haiyuan earthquake (Ms8.5). ,2014.04.30, Gumma **Un**iversity, Gumma. **Invited lecture**,
58. Runqiu Huang, Understanding the mechanism of Guopo slope deformation at Laxiwa hydropower station. 2014.05.25, 2014 International Symposium on Stability Assessment of Hard Rock Toppling. China Renewable Energy Engineering Institute (水电水利规划设计总院主办). Xi'an, China, **Keynote lecture** (主旨报告).
59. Runqiu Huang, Progress of large-scale landslides study in China. 2014.06.03. World Landslide Forum 3, 2-6 June, 2014, China National Convention Center, Beijing, China. **Planery lecturer.**
60. Runqiu Huang, Geohazrds zoning in China. 2014.09.12, Lecture for the course of 2014 Laram School. Salerno University, Salerno, Italy. **Invited lecture (**4 hrs.).
61. Runqiu Huang, Understanding the mechanism of large-scale landslides triggered by strong earth- quakes, 2014.09.15, the 11th IAEG Congress, Torino, Italy. **Keynote Speaker**.
62. Runqiu Huang. Geohazards Monitoring and early-warning system in Southwestern China. 2014.10.13. The 5th International Opto-electronic Sensor-based Monitoring in Geo-engineering, Nanjing University, Nanjing**. Keynote Speaker,**
63. Runqiu Huang, Mechanism of large-scale landlsides triggered by strong earthquake in China. 2014.11.13 GEEA 2014- Geodynamic and environment in East Asia. Donghua University, Hualian, Taiwan. **Invited Speaker.**
64. Runqiu Huang, Risk control of geohazards in strong earthquake area. 2014.11.19, Scoping workshop for China-UK Cooperation: Developing Collaborations in the Natural and Social Sciences in the Areas of Geohazards, Paleotechnology and Geo-fluids. Chengdu, China, **Speaker.**
65. Runqiu Huang, Yongfu Yang, Zhaocheng Guo, Landslidings in eastern Tibet and Their Response to Global Climate Change, 2015.01.21, CAS-NASA Workshop on the Use of Earth

Observation to Address Glacier Change and Associated Hazards in the Hindu Kush-Himalayas, Crown Plaza Hotel, Kathmandu, Napal. **Speaker**.

66. Runqiu Huang. Landslidings in eastern Tibet and their response to global climate change, 2015.05.10. The 4th International Symposium on Mega-earthquake Induced Disaster and Long-term Effects, SKLGP, Chengdu, China. **Invited Speaker.**
67. Runqiu Huang. Landslides induced by strong earthquakes. 2015.09.14, Lecture for the 2015 LARAM-Asian course. LARAM School (SKLGP-CDUT, Salerno University), Chengdu, China. **Invited lecture** (3hrs).
68. Runqiu Huang. Understanding the mechanism of large-scale landslides in China. 2015.09.21, Air Worldwide Co. Ltd, Boston, USA. **Invited Lecture**.
69. Runqiu Huang. Mechanism of large-scale landslides in China. 2015.09.22, Columbia University, New York, USA. **Invited Lecture**
70. Runqiu Huang. Mechanism of large-scale landslides in China. 2015.09.24, Georgia Institute of Technology, Atlanta, USA. **Invited Lecture.**
71. Runqiu Huang. Landslides.in eastern Tibet Plateau and the response to global climate change. 2015.10.29, Engineering Geology in New Millennium, Indian Society of Engineering Geology, India Institute of Technology (IIT), New Delhi, India. **Keynote Speaker**.

- ***Keynote and invited speeches (lectures) in domestic symposium and seminar since 1999***

72. Huang Runqiu. Study on Major Disaster and Environmental Issues of Deep Tunnel Engineering, The 4th China Symposium of Environmental & Engineering Geology, Organized by Engineering Geology Commission, Harbin, August 1999. **Keynote Lecture.**
73. Huang Runqiu. GIS System for Geoenvironmental Evaluation and Geological Hazards Prediction, Annual Conference of Prevention Commission, China Geological Hazards Society, Chongqing, August 2000. **Keynote Lecture**.
74. Huang Runqiu. Major Issues of Engineering and Environmental Geology During China's Western Development, The 6th China Conference of Engineering Geology, Organized by Engineering Geology Commission, China Geology Society, Nanning, November 1999. **Keynote Lecture.**
75. Huang Runqiu. Application of Informational Technologies in Geotechnical Engineering, China Science and Technology Forum- Application of Measurement and Control & Informational Technology in Civil Engineering, Organized by Chinese Academy of Engineering (CAE) in Beijing, May 21, 2001**. Invited Speaker.**
76. Huang Runqiu. Study on High Rock Slope Stability and Engineering Suitability in West of China, Forum on Major Engineering Geological Problems in Western China, Organized by Engineering Geology Commission, China Geology Society in Xi'an, October 11, 2002. **Keynote Speaker**.
77. Huang Runqiu. Study on High Rock Slopes Stability in Large-Scale Engineering in Western China, Geological Science Symposium for the 21th Century (80th Anniversary of China Geology Society), Organized by China Geology Society in Beijing, October 16, 2002. **Invited Lecture** (Hydrology & Engineering & Environment Session).
78. Huang Runqiu. High Rock Slope characters and Engineering Suitability Evaluation in West

of China, The first China Conference of geotechnical & engineering, organized by Engineering Survey Committee of China Architecture Society, Soil Mechanics & Geotechnical engineering committee of China civil engineering, Engineering Geology Commission of China Geology Society, China Rock mechanics & engineering Society, Beijing, October 23, 2003. **Plenary Lecture**.

79. Huang Runqiu. Study on dynamic process and typical failure mechanisms of high rock slopes in western China, the 8th China rock mechanics conference, organized by China Rock Mechanics & Engineering Society in Chengdu, October 14, 2004. Keynote Lecture.
80. Huang Runqiu. Surface Process and High Rock Slope Stability. The 7th China Conference of Engineering Geology, Organized by Engineering Geology Commission, China Geology Society, Kunming, October 22, 2004. **Keynote Speaker.**
81. Huang Runqiu. Frontiers and Progress of Geological hazards, Working Session of Ministry of Land and Resources in Xuzhou, November 23, 2004. **Invited Lecture**.
82. Huang Runqiu, Symposium for Sustainable Strategy of Development of Resources and Environment of Sichuan Province in Chengdu, Organized by Eight Societies Union of Sichuan Province in Chengdu, November, 2004. **Invited Lecture.**
83. Huang Runqiu. Deformation and Fracture Response of High Rock Slope under Excavation – Case and Understanding, China Geotechnical Engineering Conference of Highway in Xi'an, March 18, 2005. **Speaker**.
84. Huang Runqiu. Control of High Rock Slope Deformation Stability, Annual Meeting of Ground Rock Engineering Committee, China Rock mechanics & Engineering Society in Changsha, October 15, 2005. **Keynote Speaker**.
85. Huang Runqiu, Deformation and Fracture Response and Deformation Control of Large-scale High Slope Excavation. China Conference of "Karst & Engineering & Environment", Organized by Engineering Geology Commission, China Geology Society in Guiyang, October 23, 2005. **Keynote Speaker.**
86. Huang Runqiu. Stability Analysis and Disaster Control of High Rock Slope Deformation. The 38th Council of China Geological Society, Organized by China Geological Society in Beijing, February 26, 2006. **Keynote Speaker**.
87. Huang Runqiu. Character and Mechanism of Large-scale Landslides in China Since the 20th Century, The 2th China Academic Conference of Geotechnical & Engineering, Organized by the Engineering Exploration Committee of China Architectural Society; Soil Mechanics & Geotechnical Engineering of China Civil Engineering Society; Engineering Geology Commission of China Geology Society, China Rock mechanics & engineering Society in Wuhan, October 29, 2006. **Speaker** in Landslide Session.
88. Huang Runqiu. Formation Mechanism and Engineering Suitability Evaluation of Special Geological Environment of Southwest of China, China Conference on Engineering Geology and Academic Forum of "Urban Engineering Geology", Organized by Engineering Geology Commission, China Geology Society in Guangzhou, November 15, 2006. Keynote Lecture.
89. Huang Runqiu. Analysis and Control of Geological Hazards Induced by High Pressure Flow of Groundwater in Deep Tunnel, International Symposium on Groundwater (2007) in Nanjing, June 26, 2007. **Keynote Speaker**.
90. Huang Runqiu. Response and Control of High Rock Slope Deformation and Failure, The 6th China Conference on Ground Rock Engineering & the 2th Forum of Rock Mechanics and

Engineering Frontier, Chengdu, October 19, 2007. **Keynote Speaker**.

91. Huang Runqiu. Understanding of Rock Slope Deformation Response to Unloading and Related Rock Slope Stability. The 11th Lecture of Huang Wenxi, Nanjing, January 12, 2008. **Invited Speaker.**
92. Huang Runqiu. Development of Engineering Geomechanics and Engineering Geology, Scientific Conference for the 50th Anniversary of Formation of Engineering Geology Research Center, Institute of Geology and Geophysics, Chinese Academy of Sciences, Beijing, January 16, 2008. **Invited Lecture.**
93. Huang Runqiu. Preliminary Analysis on Distribution of the Wenchuan Earthquake-Triggered Geological Hazards and Their Impacts on Post-Disaster Reconstruction, Forum of "Science Technology and Earthquake Relief", Organized by Chinese Academy of Sciences, Sichuan Science and Technology Association, Chengdu, July 25, 2008. **Keynote Speaker.**
94. Huang Runqiu. Preliminary Analysis of Distribution and Dynamic Process of Geological Hazards Induced by Wenchuan Earthquake. The 10th National Conference of Rock Mechanics and Rock Engineering, Weihai. **Keynote Speaker**.
95. Huang Runqiu. Preliminary Analysis of Distribution of Geological Hazards Triggered by Wenchuan Earthquake and Their Effects on Post-Disaster Reconstruction, Symposium for "Earthquake Disasters and Disaster Reduction Technology in Mountainous Areas", Organized by the Key Laboratory of Mountain Hazards and Earth Surface Processes, Chinese Academy of Sciences, Chengdu, August 01, 2008. **Keynote Speaker**.
96. Huang Runqiu. Characteristics and Dynamic Behavior of Geological Hazards induced by the Wenchuan Earthquake, Seminar for Investigation of Engineering Structure Damage induced by the Wenchuan Earthquake. Organized by China Association of Earthquake Engineering, Chengdu, August 20, 2008. **Invited Lecture.**
97. Huang Runqiu. Preliminary Analysis of Geological Hazards Distribution Induced by Wenchuan Earthquake and Their Effects on Post-Disasters Reconstruction, The 8th Mainland-Taiwan Technological Seminar of Tunnel and Underground Engineering, Dalian, August 30, 2008. **Keynote Speaker.**
98. Huang Runqiu. Distribution of Geological Hazards Induced by the Wenchuan Earthquake and Reflection and Inspiration of Hazards Prevention, Development Strategy Seminar of Rock & Soil Mechanics and Engineering, Wuhan Institute of Rock and Soil Mechanics, Chinese Academy of Sciences, October 23, 2008. **Invited Lecture.**
99. Huang Runqiu. Distribution of Geohazards Induced by the Wenchuan Earthquake and Reflection and Inspiration of Hazards Prevention, The 2th China Conference of Hydraulic Rock Mechanics, Organized by China Rock Mechanics & Engineering Society and the Yangtze River Scientific Research Institute, Wuhan, October 25, 2008. **Keynote Speaker.**
100. Huang Runqiu. Core Values and Beyond Realities of Engineering Geology, The 8th China Conference of Engineering Geology, Organized by Engineering Geology Commission, China Geology Society in Shanghai, October 31, 2008. **Keynote Speaker.**
101. Huang Runqiu. Distribution and Mechanism of Geohazards Induced by the Wenchuan Earthquake and their Prevention Measures, Engineering Geology Commission, China Geology Society, Shanghai, November 02, 2008. **Keynote Speaker.**
102. Huang Runqiu. The Mechanism and Dynamic Process of Large-scale Landslides Triggered by the Wenchuan Earthquake, The 2th China Hydraulic & Hydropower Rock Mechanics

Conference, Organized by Rock and Soil Mechanics Commission, China Hydraulic Engineering Society, Wuhan, Nov 15, 2008. **Keynote Speaker**.

103. Huang Runqiu. The Fault Effect and Mechanism Categories of Landslides Triggered by Strong Earthquakes, Symposium for the Wenchuan Earthquake Anniversary, Organized by China Rock Mechanics & Engineering Society, Chengdu,Apr 26,2009. **Keynote Speaker**.
104. Huang Runqiu. The Fault Effect and Mechanism Categories of Landslides Triggered by Strong Earthquake, Symposium for the Wenchuan Earthquake Anniversary, Organized by China Seismological Society and China Earthquake Defense Association, Chengdu, May 10, 2009. **Keynote Speaker.**
105. Huang Runqiu. Stability of High Geo-stress and Large-scale Rock Engineering Excavation, The 3th China Geotechnical Conference, Organized by China Rock Mechanics & Engineering Society, Survey Committee of China Civil Engineering Society, Engineering Geology Commission of China Geology Society, etc,, Chengdu, Jun 12,2009. **Keynote Speaker**.
106. Huang Runqiu. The Character and Mechanism of Daguangbao Landslide Triggered by the Wenchuan Earthquake, The 10th Mainland-Taiwan Academic Seminar on Disasters and Environments, Organized by Chengdu University of Technology, Taiwan university, Nanjing University and National Kaohsiung Normal University (Taiwan, China), Jun 20,2009. **Invited Lecture**.
107. Huang Runqiu. Study on slope fission characteristics and prevention measures under strong earthquake, The 11th National Rock Dynamic Conference and Conference on Engineering Security and Protection, Organized by Rock Dynamic Committee of China Rock Mechanics & Engineering Society, Mianyang, Sichuan, Aug 13, 2009. **Keynote Speaker**.
108. Huang Runqiu. Engineering Geological Evaluation of Relocation of Towns Destroyed by the Wenchuan Earthquake, Academic Forum of the Urban Construction and Geological Disaster Prevention, Organized by China Rock Mechanics & Engineering Society, China Geological Survey, Lanzhou. October 10, 2009. **Keynote Speaker**.
109. Huang Runqiu. Reflection on Characteristic and Development of Modern Engineering Geology, The 2009 China Geological Society Annual Conference, Organized by China Geological Society, Beijing. October 23, 2009. **Keynote Speaker**.
110. Huang Runqiu. The Fault Effects and Failure Mechanism of Geological Hazards Triggered by the Wenchuan Earthquake, China Civil Engineering PhD Student Academic Forum, Organized by Beijing Polytechnic University, Beijing, October 29, 2009. **Keynote Speaker.**
111. Huang Runqiu. Landslides Mechanism and Disaster Warning in Southwest of China, Academic Forum of Complex Mountainous Geological Hazards in Western of China, Organized by the Ministry of Land and Resources, China, Chongqing. Jul 27, 2010. **Keynote Speaker**.
112. Huang Runqiu. Urban Geohazards Prevention and Early Warning in Southwest of China, Organized by China Academy of Engineering, China Geological Survey, the Urban Environment and Sustainable Development Research Center of the Education Ministry, Tongji University, Shanghai, August 24, 2010. **Keynote Speaker**.
113. Huang Runqiu. Geohazards Risk and Control in China, China PhD Academic Forum of Western Resources & Environment Sustainable Development and Talent Strategy, Organized by Degree Office of the State Council, Chengdu, September 22, 2010. **Keynote**

Lecture.

114. Huang Runqiu. Risk and Control of Geohazards in China, Seminars on Research Frontier and Development of Basin Tectonic, Organized by Chinese Petroleum Society, September 24, 2010. **Invited Lecture**.
115. Huang Runqiu. Engineering Geology under the Background of Global Climate Changes, The 2th Engineering Geology Top Forum, Organized by Engineering Geology Commission, China Geology Society, Suzhou, September 28, 2010. **Keynote Lecture**.
116. Huang Runqiu. Rock Slope Stability Analysis, Guangdong Institute of Power Planning & Design, September 30, 2010. **Invited Lecture.**
117. Huang Runqiu. The Mechanism and disaster control of Large-scale landslides, Symposium on "sedimentology, resources and environment", Chengdu, October 15, 2010. **Keynote Speaker**.
118. Huang Runqiu. Study on Geohazards Triggered by Wenchuang Earthquake. The 11th China Rock Mechanics and Engineering Conference, Organized by China Rock Mechanics & Engineering Society, Wuhan, October 19, 2010. **Keynote Speaker**.
119. Huang Runqiu. Preliminary Analysis on the Post-disaster effects Triggered by Strong Earthquake, Forum on Global Disaster Events and Major Geological Disasters Strategy, Organized by Geological Environment Department of the Ministry of Land and Resources , China. Beijing, November 12, 2010. **Keynote Speaker.**
120. Huang Runqiu. The Mechanism and Prevention of Large-scale Landslides, State Key Lab. of Frozen Soil Engineering, Chinese Academy of Sciences ,Lanzhou, November 28, 2010. **Invited Lecture**.
121. Huang Runqiu. The Mechanism and disaster control of Large-scale Landslides, Chengdu Center of China Geological Survey, Chengdu, December 06, 2010. **Invited Lecture**.
122. Huang Runqiu. Preliminary Analysis and the Post-earthquake Effects on Geohazards Triggered by Strong Earthquake, Southwest University of Science and Technology, Mianyang, December 16, 2010, **Invited Lecture.**
123. Huang Runqiu. The Mechanism and disaster control of Large-scale Landslides, The Department of Land and Resources, Guizhou Province, Guiyang, March 21,2010, **Invited Lecture**.
124. Huang Runqiu. Makeing Engineering Geology More Accurate, More Considerate and More Scientific, The 3th China High-level Forum of Engineering Geology, Luoyang, April 16, 2011, **Keynote Speaker**.
125. Huang Runqiu. Post-earthquake Effects of Geohazards Triggered by the Wenchuan Earthquake, Sichuan-Taiwan Seminar of Debris Flow Evaluation, Organized by National Chung Hsing University, Taipei, May 26, 2011, **Invited Lecture.**
126. Huang Runqiu. Geoengineering Lessons and Experience from the Wenchuan Earthquake, China Annual Conference of Engineering Geology, Xining, August 4, 2011, **Keynote Speaker**.
127. Huang Runqiu. Geohazards and their Risk Control in China, Jilin University, Changchun, November 2, 2011, **Invited Lecture**.
128. Huang Runqiu. Stability and Risk Control of High Slopes, Annual Conference of China Geology Society, Beijing, November 3, 2011. **Keynote Speaker**.
129. Huang Runqiu. The Preliminary Analysis of Failure Mechanism of Daguangbao Landslide,

Key Laboratory of Earth Surface Processes, China Academy of Science, Chengdu, January 7, 2011, **Speaker**.

130. Huang Runqiu. Deformation and Failure Mechanism of Slopes and Early Identification of Large-Scale Landslides, Guizhou Geology and Mineral Resources Bureau, Guiyang, April 13, 2012, **Invited Lecture**.
131. Huang Runqiu. The Main Characteristics and Future of Modern Engineering Geology, Shandong University of Science and Technology, Qingdao, May 5, 2012, **Invited Lecture**.
132. Huang Runqiu. The Main Characteristics and Future of Modern Engineering Geology, China University of Petroleum, Qingdao, May 5, 2012, **Invited Speaker.**
133. Huang Runqiu. The Risk and Its Control of Geohazards in China Mainland, The Symposium on Geological Hazards Prevention, Mainland-Taiwan Experts Forum of China Geology Society, Xiamen, June 17, 2012. **Keynote Speaker.**
134. Huang Runqiu. Geohazards Risk and its Control in China, Key Laboratory of Arid Regions Transportation, Urumqi, November 7, 2012. **Invited Lecture**.
135. Huang Runqiu. Characteristics and Mechanism of large-scale Landslides Trigged by Meizoseismal Earthquake in China, The 9th China Conference of Engineering Geology, Organized by Engineering Geology Commission, China Geology Society, Qingdao, October 23, 2012. **Keynote Speaker**.
136. Huang Runqiu. The Risk and Prevention of Geohazards in Mountainous Areas, Fujian Geology and Mineral Resources Exploration Bureau, Fuzhou, November 18, 2012. **Invited Lecture**.
137. Huang Runqiu. Deformation and Failure Mechanism of Large-scale Landslides and Early Identification, Seminar on Risk Prevention and Control of Geohazards in Hydropower Construction, Chengdu, November 20, 2012. **Invited Lecture**.
138. Huang Runqiu. Mechanism and Early Identification of Large-scale Landslides, The 6th China Conference of Geohazards Prevention, Organized by Geological Hazard Commission, China Geology Society, Beijing, April 11, 2013. **Keynote Speaker**.
139. Huang Runqiu. Geoengineering Lessons and Experience learnt from the Wenchuan Earthquake, The 4th China Forum of Disaster Prevention & Sustainable Development, Organized by Expert Committee of China Disaster Reduction Association, Chengdu, May 10, 2013, Invited Speaker.
140. Huang Runqiu. Engineering Geological Analysis of Slope Toppling Failure, 2013's Symposium of Engineering Geology of Hydro-China Corporation, Organized by Hydro-China Corporation, Hangzhou, May 23, 2013. **Keynote Lecture.**
141. Huang Runqiu. The Characteristics and Prevention Methods of Geohazards Triggered by Lushan Ms. 7.0 Earthquake, Symposium of Engineering Destruction & Countermeasures, Organized by Civil Engineering & Hydraulic and Architecture Department of China Academy of Engineering, Earthquake Seismology Commission of China Seismological Society, Chengdu, May 31, 2013. **Keynote Speaker**.
142. Huang Runqiu. Geoengineering Lessons and Experience form the Wenchuan Earthquake: the 5th Anniversary of the Wenchuan Earthquake: The 2th China Conference On Disaster Prevention and Reduction Engineering, Organized by China Disaster Prevention Society, Harbin Institute of Technology, etc,, Harbin, August 22, 2013. **Keynote Speaker**.
143. Huang Runqiu. Stability and Landslides Control of High Rock Slopes, Annual Conference

on Geological Exploration, China Hydropower Consultant, Co. Ltd, Organized by Chengdu Institute of Hydroelectric Investigation & Design, Chengdu, September 26, 2013. **Keynote Speaker**.

144. Huang Runqiu. Long-term Effects Analysis of Geohazards in Wenchuan Earthquake Damaged Area, Sun Yat-Sen University, Guangzhou, October 10, 2013. **Invited Lecture**.
145. Huang Runqiu. Monitoring, Prediction and Early-warning of Geohazards Based on Modern Informational Technology, The 6th High-level Forum of Engineering Geology, Organized by Sun Yat-Sen University, Guangzhou, November 17, 2013. **Keynote Speaker**.
146. Huang Runqiu. Dynamic process and disaster simulation of high rock slopes, The Annual Meeting of Key Laboratory of Computational Geodynamics, Chinese Academy of Sciences, Beijing, November 29, 2013. **Invited Lecture**.
147. Huang Runqiu. Characteristics, tendency and countermeasures of geohazards in the Wenchuan Earthquake Area, Course for the Department of Land and Resources, Sichuan Province, Chengdu, December 16, 2013. **Lecture.**
148. Runqiu Huang, 2014.03.16. Mechanism of Large landslides and early identification. The Geohazards Prevention Training Course of Armed Forces for Golden, Chengdu, **Lecture**.
149. Runqiu Huang, 2014.04.10. Deformation and failure analysis of Guopu slope in Laxiwa Hydropower station in upstream of the Yellow River, Seminar, General Institute of China Hydro. , Beijing. **Speaker.**
150. Runqiu Huang, 2014.05.14. Geohazards of the Wenchuan earthquake and their post-quake effects. 2014 Jointed Meeting of Taiwan Geological Society and Geophysical Society, Donghua Polytech. University, Hualiang, Taiwan. **Invited Lecture.**
151. Runqiu Huang, 2014.05.16. Large-scale hydropower construction and high slope stability. The Department of Civil Engineering, Taiwan University, Taipei. Lecture.
152. Runqiu Huang, 2014.06.07. Mechanism of large landslides triggered by strong earthquakes. National Post-doctor Forum for Sustainable Development of Resources, Environment and Society, Chengdu University of Technology, Chengdu. Keynote Speaker.
153. Runqiu Huang, 2014.06.09. Risk assessment and management of geohazards. Department of Land and Resources, Zhejiang Province, Hanzhou. Invited lecture.
154. Runqiu Huang, 2014.06.12. Geohazard investigation and assessment in strong earthquake area. High-level Forum of Development Strategies & Geohazards Investigation and Research, Technique Center for Geohazard Prevention, Pixian, Chengdu. **Keynote Speaker.**
155. Runqiu Huang, 2014.11.02. Engineering geological analysis of toppling slopes. The Fourth Conference of Hydro Rock Mechanics, Chengdu. **Keynote Speaker**.
156. Runqiu Huang, 2014.11.12. Engineering geological analysis of toppling slopes. The Department of Civil Engineering, Taipei Scientific and Technological University, Taiwan. **Invited Lecture.**
157. Runqiu Huang, 2014.11.15. Overview of scientific research in SKLGP. Water Conservancy Department, Chenggong University, Tainan, Taiwan. **Speaker**.
158. Runqiu Huang, 2014.11.21. High rock slope stability and geohazards control. Guiyang Institute of Hydropower Survey, Design and Research, China Hydro. Construction, Guiyang. **Invited Lecture**.
159. Runqiu Huang, 2014.11.28. High rock slope stability and geohazards control. China Ming

Industry University, Xuzhou, Jiangshu. **Invited Lecture**.

160. Runqiu Huang, 2014.12.15. Toppling mechanism of Guopu high rock slope in Laxiwa hydropower and engineering countermeasures. Seminar on Topping Deformation and Safety Control of Hard Rock Slope in Reservoir Bank, General Institute of China Hydro. Planning and Design, Beijing. **Speaker**.
161. Runqiu Huang, 2014.12 19. Gehazards risk assessment and risk control. A Training Course for Arba Land and Resources Bureau. Chengdu. **Invited Lecture**.
162. Runqiu Huang, 2015.01.14. A talk about discipline construction. A Training Course for leaders in CDUT. **Lecture**.
163. Runqiu Huang, 2015.02.02. Geohazards risk in strong earthquake areas and control. The 1st meeting of the 2nd INDR-China committee, Institute for Remote and Digital Earth, China Academy of Science, Beijing. **Speaker**.
164. Runqiu Huang, 2015.03.18. High slope stability and geohazards control. A Ceremony of Consultant Professor in Xinan Jiatong University, Chengdu. **Invited Lecture**.
165. Runqiu Huang, 2015.03.18. High slope stability and geohazards control. Southeast University, Nanjing. **Invited Lecture**.
166. Runqiu Huang, 2015.04.18. Major geohazards: scientific issues and demands of the country. Seminar for Geohazards Development Strategy, China Geological Survey. CDUT, Chengdu. **Speaker**.
167. Runqiu Huang, 2015.04.18. Risk of strong earthquake triggered geohazards and control. The 2nd National Geology Conference for Young Geologists, Chengdu. **Keynote Speaker**.
168. Runqiu Huang, 2015.04.27. Deformation and fracture response of high rock slopes during large-scale excavation in high geostress area. National High-level Forum for Geohazards Prevention, Lanzhou University, Lanzhou. **Keynote Speaker**.
169. Runqiu Huang, 2015.07.03.Geohazards risk assessment and control. A National High-level Training Course for Geohazards Monitoring, Early-warning and Rescure Key Techniques, Department of Manpower and Social Safeguard, Sichuan Province, Department of Land and Resources, Sichuan Province, Chengdu, **Invited Lecture**.
170. Runqiu Huang, 2015.07.16. Quantitative risk assessment of geohazards and risk control. A Training Course for Responsible Leaders of Cities and Counties of Zhejiang Province , Department of Organization, Department of Land and Resources, Zhejiang Province, Hanzhou. **Invited Lecture**.
171. Runqiu Huang, 2015.08.06. Quantitative risk assessment of geohazards and risk control. No.2 Engineering Survey Institute of Guizhou Province, Zunyi. **Invited Lecture**.
172. Runqiu Huang, 2015.08.22. Quantitative risk assessment of geohazards and risk control. Guizhou Institute for Geological Environment Monitoring, Guiyang. **Invited Lecture**.
173. Runqiu Huang, 2015.08.22. Mechanism of typical geohazards in Guizhou Province and early identification. Guizhou Institute for Geological Environment Monitoring, Guiyang. **Invited Lecture**.
174. Runqiu Huang, 2015.09.06. High slope stability analysis under large-scale excavation in high geostress area. Seminar of Geohazards Coordinate Innovation Center, Tongji University, Shanghai, **Speaker**.
175. Runqiu Huang, 2015.10.17. Theory exploration of engineering geology: how to get the way? The 8th National High-level Forum on Engineering Geology, Tongji University, Shanghai.

Keynote Speaker.

176. Runqiu Huang, 2015.12.05. Quantitative risk assessment of geohazards and risk control. Investiment Group Company for Xinjiang Transportation Construction, Wulumuqi. **Invited Lecture**. .
177. Runqiu Huang, 2015.11.12. High slope stability analysis under large-scale excavation in high geostress area, Shanghai Jiaotong University, Shanghai, **Invited Lecture**.
178. Runqiu Huang, 2015.11.12. Quantitative risk assessment of geohazards and risk control. Hunan University of Technology, **Invited Lecture**.
179. Runqiu Huang, 2016.01.06. Complex engineering geological conditions in southwestern China and high rock slope stability. Zhongyuan High-level Forum, General Institute of China Hydro Planning and Design, Beijing. **First Invited Lecture**.
180. Runqiu Huang, 2016.01.08. (1) Quantitative risk assessment of geohazards and risk control; (2) A quick digital-aid investigation and surveying system for engineering geology. A Training Course for people in Land and Resources Department in Guizhou. **Invited Lecture**.

THESE OF PH.D. AND MS. STUDENTS

- ***Ph.D. Theses, Chengdu University of Technology***

1. Xu Qiang, 1997, Non-linear Theory and its Application in Engineering Geology, Ph.D. thesis, Chengdu University of Technology.
2. Wang Xianneng, 1998, The fundamental Principle of Water-Thermal-Stress Coupling and its Geological Effect in Deep Buried Tunnel Constructions, Ph.D. thesis, Chengdu University of Technology.
3. Chai Hejun, 1999, Study on Rockmass Structure Models at the Xiluodu Dam Site in Jinsha River and Its Application in Engineering, Ph.D. thesis, Chengdu University of Technology.
4. Huang Guoming, 1999, Description of Jointed Rockmass and its Applications, Ph.D. thesis, Chengdu University of Technology.
5. Lin Feng, 2000, Engineering Geological Study on the Deformation and Stability of the Ship Lock High Rock Slope of Three Gorges Project, Ph.D. thesis, Chengdu University of Technology.
6. Shen Fang, 2000, GIS-based System Development for Geological Environment Evaluation and Geological Hazards Predication in Mountain Areas, Ph.D. thesis, Chengdu University of Technology.
7. Fang Xiangchi, 2000, Engineering Geological Study on the Geohazards of Kunming-Ruili Highway, Ph.D. thesis, Chengdu University of Technology.
8. Qin Qirong, 2001, Prediction of Discontinuities of Deep Rock Masses and it's Application in Stability Analysis of Petroleum Well-wall, Ph.D. thesis, Chengdu University of Technology.
9. Fan Liuming, 2001, Study on the Anti-sliding Boundaries of the Xiluodu High Arch Dam Shoulder and its Stability Assessment, Ph.D. thesis, Chengdu University of Technology.
10. Tang Shengchuan, 2002, Engineering Geological Feasibility Study of High-dam Construction in Complicated Geological Environment, Ph.D. thesis, Chengdu University of Technology.

11. Wang Wenjun, 2003, The Principle of Eco-geological Environment Assessment and its Application in the An-ning River Basin, Ph.D. thesis, Chengdu University of Technology.
12. Cheng Xing, 2003, Mechanism and prediction of karst collapse, Ph.D. thesis, Chengdu University of Technology.
13. Chen Liyi, 2004, Theory and Practices of Foam and Foamed Drilling Technology, Ph.D. thesis, Chengdu University of Technology.
14. Xiang Xiqiong, 2005, Regional Landslide Hazard Assessment and Risk Management, Ph.D. thesis, Chengdu University of Technology.
15. Ju Nengpan, 2005, Engineering Geological Study on the Stability of Surrounding Rock mass with Large Span and High Side-Wall Underground Caverns, Ph.D. thesis, Chengdu University of Technology.
16. Ding Xiumei, 2005, A Study on the Deformation and Stability of Typical Embankment Slope in Southwestern China, Ph.D. thesis, Chengdu University of Technology.
17. Qi Guoqing, 2005, Study on the Mechanism of Rainfall-induced Landslides, Ph.D. thesis, Chengdu University of Technology.
18. Cao Yunjiang, 2006, Engineering Geological Study on the Stability of High Slope with Soft Rock-Taking the Zipingpu Water Conservancy Project in Minjiang River as an Example, Ph.D. thesis, Chengdu University of Technology.
19. Zhu Jiliang, 2006, Geomechanics Responses and Evaluation of Large-Scale High Rock Slope Excavation-Taking the Xiaowan Hydroelectric Station as an Example, Ph.D. thesis, Chengdu University of Technology.
20. Wu Lizhou, 2006, Constitutive Model and Slope Stability Evaluation and Its Application for Unsaturated Expansive Soil, Ph.D. thesis, Chengdu University of Technology.
21. Lou Rixin, 2007, Study on the Technology of DTH Hammer Drilling with Casing for Complex Stratum, Ph.D. thesis, Chengdu University of Technology.
22. Qing Sanhui, 2007, Study on Settlement Control of Embankment and Soft Foundation of High-speed Railway in Red Rock Strata, Ph.D. thesis, Chengdu University of Technology.
23. Zhang Shuguang, 2007, Engineering Geological Study on the Foundation Base of Baihetan High Arch Dam, Jinsha River, Ph.D. thesis, Chengdu University of Technology.
24. Shi Yuchuan, 2007, Research of HSMR Fast Evaluation System for Stratified Rock Slope, Ph.D. thesis, Chengdu University of Technology.
25. Deng Hui, 2007, Study of High Resolution Satellite Remote Sensing on Investigation and Evaluation of Geohazards, Ph.D. thesis, Chengdu University of Technology.
26. Yang Genlan, 2007, Study of Altered-Rock Characteristics and Its Engineering Suitability at Xiaowan Hydropower Station, Lancang River, Ph.D. thesis, Chengdu University of Technology.
27. Huang Jianmin, 2007, Mobility of Heavy Metals in the Mud and Environmental Impacts in Coastal Reclamation Areas—A Case Study of Shenzhen-Hong Kong Western Corridor Reclamation Area, Ph.D. thesis, Chengdu University of Technology.
28. Jiang Liangwei, 2007, Study on Reinforced Mechanism and Applications in Loose Slopes Using Prestressed Anchor Cables and Stabilizing Piles with Prestressed Anchored Cables, Ph.D. thesis, Chengdu University of Technology.

29. Huang Da, 2007, Study on Unloading Deformation Mechanism and Stability of Excavating surrounding Rock Mass of Large Underground Caverns, Ph.D. thesis, Chengdu University of Technology.
30. Zhao Jianjun, 2007, Study and Application on Rapid Slope Stability Evaluation Method for Highway, Ph.D. thesis, Chengdu University of Technology.
31. Xu Demin, 2008, Permeability and mechanics test on rock or rock mass under high seepage pressure, Ph.D. thesis, Chengdu University of Technology.
32. He Xingjiang, 2008, Study on Interaction of Underground Mining and Geological Environment and the Mitigation of Geological Environment, Ph.D. thesis, Chengdu University of Technology.
33. Duan Haipeng, 2008, Study on High Slope Stability and Dynamic Design of Expressway in Mountain Area , Ph.D. thesis, Chengdu University of Technology.
34. Liu Weihua, 2008, Study on Stability, Movement Characteristics and Countermeasures of Potential Unstable Rock Mass in High-steep Slopes, Ph.D. thesis, Chengdu University of Technology.
35. Wu Qi, 2009, Formation Mechanism of High Ground Stress Environment and Typical Engineering Effect Study In South-West Region of China, Ph.D. thesis, Chengdu University of Technology.
36. Zhang Min, 2009, Study on Technology System of Zero Cave-entrance and its Application of Large Cross-section Tunnel Under Complex Geological Conditions, Ph.D. thesis, Chengdu University of Technology.
37. Peng Sheqin, 2009, Retaining structure and soil interaction in deep excavation, Ph.D. thesis, Chengdu University of Technology.
38. Hu Bin, 2009, Urban Geological Environmental Evaluation and Land Use Planning-A case study of Chengdu city, Ph.D. thesis, Chengdu University of Technology.
39. Zhang Qiang, 2010, Semi-Karst Development Characteristics and Seepage Stability of the Calcareous Sandstone Red Beds of the Guanyinyan Hydropower, Jinsha River, Ph.D. thesis, Chengdu University of Technology.
40. Li Zizhang, 2010, A Study on Hot-pressed Impregnated Diamond Drilling Bit in Designed Setting , Ph.D. thesis, Chengdu University of Technology.
41. Su Peidong, 2010, Research on the Simulation of Paleotectonic Stress Field and Fracture Prediction of Rock Mass of Reservoir-A Case Study of Ordovician Reservoir in Tahe Oilfield, Ph.D. thesis, Chengdu University of Technology.
42. Zheng Da, 2010, Engineering Geological Study on Construction Suitability for High Rockfill Dam at Qizong Hydropower Station in Jinsha River, Ph.D. thesis, Chengdu University of Technology.
43. Tu Guoxiang, 2010, Study on the Engineering Properties and Stability of Typical Ancient Outwash Congeries in Southwestern Valley, China, Ph.D. thesis, Chengdu University of Technology.
44. Huo Junjie, 2010, Abutment Rock Mass Quality Evaluation and Availability Study for Jinping I Hydropower Station, Ph.D. thesis, Chengdu University of Technology.
45. Huo Yuxiang, 2010, Geoengineering Study of High Aggregate Slope for Hydropower Stations, Ph.D. thesis, Chengdu University of Technology.

46. Wang Sheng, 2010, Analysis on Geological Defects and Reinforcement Technology of the Left Bank Anti-sliding Body of Jinping I Hydropower, Ph.D. thesis, Chengdu University of Technology.
47. Sun Shuqin, 2011, Study on the Rockmass Structures of Emeishan Basalt and Its Engineering Effects, Ph.D. thesis, Chengdu University of Technology.
48. Ji Weifeng, 2011, Research on Key Technological Problems in Development of DTC Small Diameter Dynamically Tuned Gyroscope Borehole Inclinometer, Ph.D. thesis, Chengdu University of Technology.
49. Song Yuhuan, 2011, Study on the Failure Models of Slopes with Soft and Hard Rock Interbedded Laminated Structure in Southwest China, Ph.D. thesis, Chengdu University of Technology.
50. Xu Xiangtao, 2012, Research on Rock Mechanics Characteristics and Stability Analysis of High Rock Slopes at Baihetan Hydropower Station, Ph.D. thesis, Chengdu University of Technology.
51. Li Guo, 2012, Failure Mechanism of Stratified Rock Slopes Under Strong Earthquakes, Ph.D. thesis, Chengdu University of Technology.
52. Xu Zhiwen, 2012, Analysis of Forming Mechanism and Prevention Countermeasures of Large-Scale Landslides in Sichuan-Taking Danba Landslide and Tiantaixiang Landslide as Examples, Ph.D. thesis, Chengdu University of Technology.
53. Yuan Jinke, 2012, Characteristics of Shattered Rockmass Structures and Identification on the Slope Collapses after the Wenchuan Earthquake, Ph.D. thesis, Chengdu University of Technology.
54. Huang Jian, 2012, Study on Early-warning of Geohazards Based on 3D WebGIS Technology. Ph.D. thesis, Chengdu University of Technology.
55. Huang Yong, 2012, Research on Freeze-thaw Mechanical Behavior of Rock Mass and Typical Rockfall Formation Mechanism Along the Highway in Alpine and Strong Earthquake Regions —Taking Tianshan Highway as an Example. Ph.D. Thesis, Chengdu University of Technology.
56. Chen Qiang, 2013, Research on Seismic Behavior of New Gravity Reinforced Retaining Wall in High-Intensity Earthquake Area. Ph.D. thesis, Chengdu University of Technology.
57. Liu Yunpeng, 2013, Engineering Geological Characteristics and Slope Stability Study of Slab Structure Rock Masses. Ph.D. thesis, Chengdu University of Technology.
58. Tang Xianliang, 2013, Dynamic Response of Rock Mass Quality of High Dam Foundation Induced by Changes of Stresses -Case study of the Dam Foundation Rock mass of Xiaowan Hydropower Station. Ph.D. thesis, Chengdu University of Technology.
59. Lu Ping, 2014, Geohazard Assessment and Control of Tunnels with High Risk in Karst Area. Ph. D. thesis, Chengdu University of Technology.
60. Wang Zhengrong, 2014, Study on Geostress Field and Fracture Pattern of Rock Strata in Xinchang Basin. Ph. D. thesis, Chengdu University of Technology.
61. Liu Ming, 2014, Study on the Deformation Response of a High Rock Slope During Large-scale Excavation at Jinping I Hydropower Station. Ph. D. thesis, Chengdu University of Technology.
62. Chen Qiang, 2014, Study on Failure Model and Stability of Large-scale Debris Body Formed by the Wenchuan Earthquake. Ph. D. thesis, Chengdu University of Technology.

63. Wang Zhigao, 2015, Engineering Geological Study on Large-scale Debris in Deep Valley in Southwestern China. Ph. D. thesis, Chengdu University of Technology.
64. Zhang Weifeng, 2015, Engineering Geological Study on Daguangbao Huge Landslide Induced By the Wenchuan Earthquake. Ph. D. thesis, Chengdu University of Technology.
65. Zhao Weihua, 2015, Failure Path Analysis of Jointed Rocks Based on Deformation and Failure Model of Rock Slopes. Ph. D. thesis, Chengdu University of Technology.

- ***MS. Theses, Chengdu University of Technology***

1. Wang Zhengrong, 1994, Study on the Deformation Mechanism and Stability Assessment of Rock Slopes with Anti-dipping Strata. Master Thesis, Chengdu University of Technology.
2. Chen Shangqiao, 1996, A Study on Safety Thickness of Top Plate above Shallow Buried Cavities in Chongqing City and Development of Auxiliary Analysis System, Master Thesis, Chengdu University of Technology.
3. Zeng Weidong, 1996, Numerical Simulations of the Stress Field in the East Side of the Tibet Plateau, Master Thesis, Chengdu University of Technology.
4. Song Xiaobing, 1997, Study on Deterministic Model of Rock Mass Structures and Its Application at the Damsite of Xiluodu Hydropower Station, Master Thesis, Chengdu University of Technology.
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