



青海省人民政府-北京师范大学
高原科学与可持续发展研究院
Academy of Plateau Science and Sustainability
People's Government of Qinghai Province & Beijing Normal University

THE 19TH INTERNATIONAL SYMPOSIUM ON GEO- DISASTER REDUCTION / HIGH-LEVEL ACADEMIC FORUM ON DISASTER MITIGATION AND INTEGRATED RISK DEFENSE ON THE PLATEAU

HANDBOOK

- Hosts:** Qinghai Normal University Tongji University
International Consortium on Geo-disaster Reduction (ICGdR)
Academy of Plateau Science and Sustainability, People's
Government of Qinghai Province & Beijing Normal University
Department of Emergency Management of Qinghai Province
Qinghai Earthquake Agency
Academy of Disaster Risk Science, Beijing Normal University
- Organizers:** Research Center of Plateau Disaster Reduction and Emergency
Management
Disaster Reduction Center of Department of Emergency
Management of Qinghai Province
College of Geographical Sciences, Qinghai Normal University
The Geographical Society of Qinghai
- Co-organizers:** Qinghai Geographical Information Society
Geomatics Technology and Application key Laboratory of
Qinghai Province

XINING, QINGHAI

JULY 2021



Academy of Plateau Science and Sustainability

People's Government of Qinghai Province & Beijing Normal University

In order to implement the strategic decision of the Central Government on "Educational Aid in Qinghai", give full play to the talents and scientific and technological advantages of Beijing Normal University, and promote the priority development of education in Qinghai, under the strong support and guidance of the Ministry of Education, the People's Government Of Qinghai Province and Beijing Normal University have reached strategic cooperation framework agreement in terms of team building, personnel training, discipline building, scientific research cooperation and social services in line with the principle of "Advantages complementing, resource sharing, development coordinating, mutual benefit and win-win". Especially in the field of scientific research cooperation, relying on Qinghai Normal University, People's Government of Qinghai Province and Beijing Normal University jointly established the Academy of Plateau Science and Sustainability, and jointly carried out scientific research cooperation in the fields of education, water resources, ecology, geography and environment.

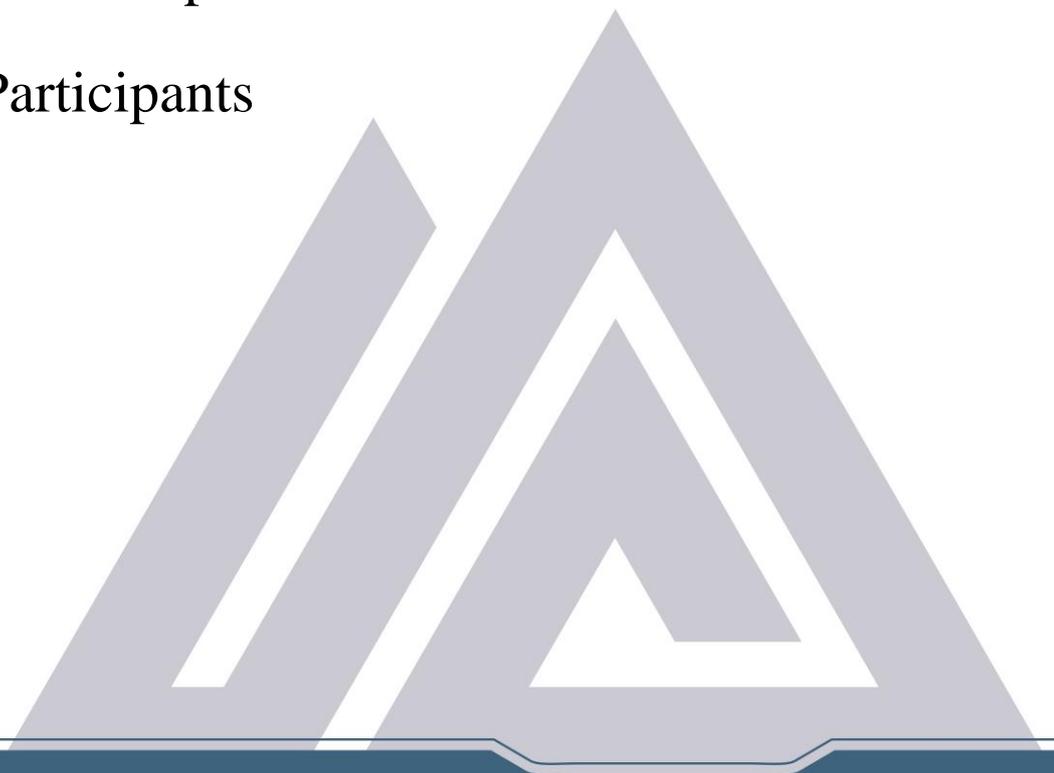
The development of the Academy of Plateau Science and Sustainability (hereinafter referred to as the Academy) has been highly valued by the Ministry of Education and the CPC Qinghai Provincial Committee and Provincial Government. Beijing Normal University, as a national first-class university with a concept of "Pursuing studies and self-cultivation to benefit the world" has given all-round guidance and support to the planning and construction of the Academy, which embodies a strong political awareness, overall awareness and responsibility carrying, and has injected a new era connotation into promoting the strategy of "Educational Aid in Qinghai". The Academy is positioned as a think tank, academic platform and talent plateau. First, as a think tank, based on the geographical advantages of China's plateau, the Academy pays close attention to the frontiers of international research, strengthens interdisciplinary and collaborative innovation, closely adheres to the strategic needs of the Party and the Nation, highlights the problem-oriented and application-oriented, strengthens the foresight, pertinence and effectiveness of scientific research and decision-making research, and improves the ability of serving regions and the country in decision-making. Second, as an academic platform, the Academy is an open academic platform, covering academic research, personnel training, social services, foreign exchanges and other aspects, focusing on building plateau scientific information sharing and collaborative research and development mechanism. Third, as a talent plateau, the Academy regards talents as the first resource, builds and supports a scientific research and innovation team led by high-level talents, continuously improves the ability of scientific and technological service development, aiming to provide effective intellectual support for regional and national high-quality development.

The Academy will closely focus on national economic construction, political construction, cultural construction, social construction and ecological civilization construction, keep eyes on the frontier of international science and technology, deepen basic and applied basic research, and devote itself to in-depth study of major issues related to plateau science and sustainable economic and social development in Plateau areas.



Contents

- Symposium Theme
- Symposium Details
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Symposium Theme

Geological disaster and integrated risk defense

Symposium Goals

To discuss the hot issues in the field of geological disaster reduction, and promote the regional and global geological disaster prevention and mitigation activities, the International Consortium on Geo-disaster Reduction (ICGdR), Qinghai Normal University, Tongji University and Academy of Plateau Science and Sustainable, People's Government of Qinghai Province & Beijing Normal University, China will jointly host the 19th International Symposium on Geo-disaster Reduction (19th ISGdR)/High-Level Academic Forum on Disaster Mitigation and Integrated Risk Defense on the Plateau on 11-15 July 2021 in Xining, Qinghai Province, China. Researchers, engineering technicians, legislators and administrators in the field of geological disaster reduction, integrated risk assessment and defense, environmental earth sciences are welcome to participate the symposium.

Symposium Topics

- Formative mechanism and environment of geological disasters
- Recognition and early warning technology of geological disasters
- Risk assessment and prevention planning of geological disasters
- Geological disaster control and geological environment protection
- Practice of geological disaster prevention and mitigation and regional sustainable development



Symposium Details

1. Date and Address

Date: 11-15 July 2021

Address: Chengbei Campus, Qinghai Normal University

Hall: Academic Report Hall of Library (1F) in Chengbei Campus, Qinghai Normal University

2. Registration and Accommodation

Xinchunlan International Hotel (No.20 Chaoyang West Road, Chengbei District, Xining, 0971-492888)

3. Dining Timetable

Time		Dining	Location
11 July	18:30-20:30	Dinner	Dining Hall of Xinchunlan International Hotel (3F)
12 July	7:20-7:45	Breakfast	Dining Hall of Xinchunlan International Hotel (3F)
12 July	12:15-14:00	Lunch	Xinyuan Canteen (3F) Chengbei Campus, Qinghai Normal University
12 July	18:30-20:00	Dinner	Beijign Hall of Xinchunlan International Hotel (3F)
13 July	6:30-7:00	Breakfast	Dining Hall of Xinchunlan International Hotel (3F)
13-15 July		All day	Dining with the team at the designated location
16 July	7:30-9:30	Breakfast	Dining Hall of Xinchunlan International Hotel (3F)

4. Contact Us

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5. Shuttle Time

At 7:50 AM on 12 July, Main Gate of Xinchunlan International Hotel (From accommodation to the academic report hall)

6. Weather Forecast (11-13 July, Xining)

Date	Weather	Temperature	Wind
11 July	Overcast with light rain	13-28	Gentle breeze
12 July	Overcast with light rain	10-26	Gentle breeze
13 July	Overcast with light rain	9-27	Moderate breeze

Warm tips:

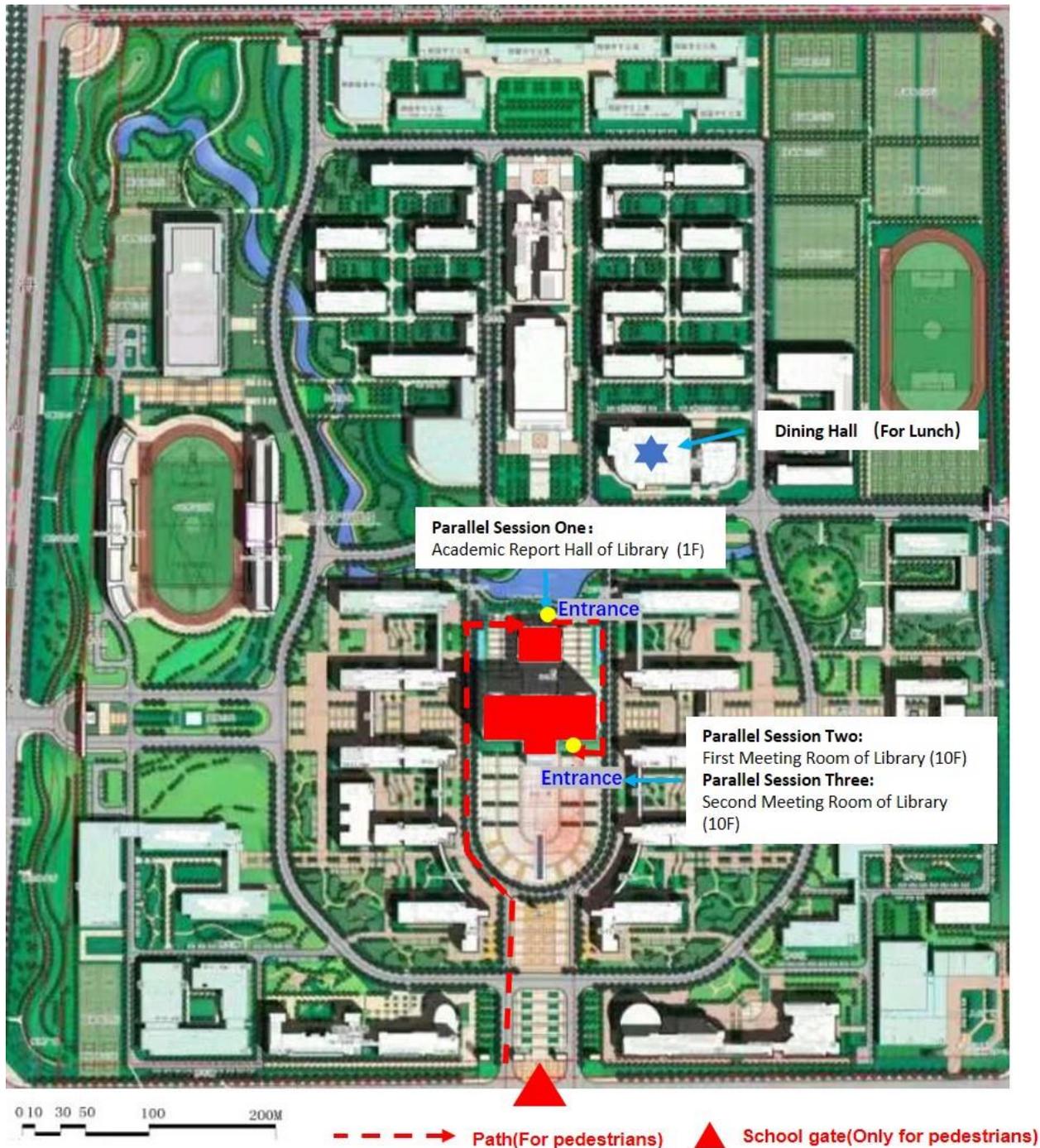
(1) According to the requirements of epidemic prevention and control: Participants should attach great importance to epidemic prevention and control, do personal protection well, wear masks, pay attention to hygiene and personal physic conditions before registration, like fever, cough, chest tightness and other abnormal symptoms, and provide vaccination status as required. During the symposium, you must strictly abide by and cooperate with the various epidemic prevention and control policies at the location of the venue. People from overseas and domestic medium / high-risk areas or those who have lived in overseas or domestic medium / high-risk areas for 28 days are not allowed to participate in this meeting in principle. The public places of the symposium hall are equipped with hand-washing disinfectant. The symposium document bag contains medical surgical masks. Please take them as needed. During the conference, please be sure to take personal protection, wear masks, and pay attention to cleanliness and hygiene.

(2) The Qinghai-Tibet Plateau has a large temperature difference in summer, and some areas have a cold and dry climate with strong ultraviolet radiation. Please bring cold-proof clothing and necessary sun protection products, and wear light, breathable shoes.

(3) The Qinghai-Tibet Plateau has high altitude and thin oxygen. It is recommended that representatives suffering from diseases such as hypertension, heart disease, bronchitis, asthma, etc., do not rush to participate in academic investigations; you may experience dizziness, rapid heartbeat, chest tightness, shortness of breath and other reactions when you first come to Xining. The action should be slowed down, not strenuous exercise.



Guidance for Each Venue





Schedule (Stage One: Presentation Online-2 July 2021)

Time	Content
16:00-17:30	2021 Board of Representative Meeting, ICGdR
Invited Lecture	
17:30-18:00	Prof. Sabatino CUOMO (University of Salerno, Italy) <i>Protection measures against flow-like landslides</i>
Youth Forum	
18:00-18:15	Dr. Yuko SERIKAWA (National Institute of Technology, Fukui College, Japan) <i>Effects of liquefaction damage to houses induced by the recent earthquakes in Japan</i>
18:15-18:30	Mr. Takumi MURATA (Kanazawa University, Japan) <i>Model experiment on ground uplift by inserting logs into silt ground for liquefaction countermeasure</i>
18:30-18:45	Ms. Angela Di PERNA (University of Salerno, Italy) <i>Hydro-mechanical modelling of saturated flows impacting structures</i>
18:45-19:00	Dr. Akira MURATA (Kanazawa University, Japan) <i>Estimation of strong motion using H/V spectral ratio of microtremor observation for recently damaged earthquakes, JAPAN</i>
19:00-19:15	Ms. Xiaoli SU (Loughborough University, UK) <i>Numerical simulation of the dynamic movement of the 2019 Shuicheng landslide using a coupled depth-averaged and discrete element model</i>
19:15-19:30	Mr. Daiki NISHIYAMA (Kanazawa University, Japan) <i>Experimental Study on Seismic Performance of Castle Stone Walls Using Geotextiles</i>
Invited Lecture	
19:30-20:00	Prof. Guoquan WANG (University of Houston, USA) <i>Stable geodetic reference frames for long-term geological hazards monitoring in China</i>
20:00	Closing Ceremony



Schedule (Stage two: Symposium offline-11-12 July 2021)

Time	Content	Location
11 July 2021		
8:00-20:00	Registration	Hall (1st Floor) of Xinchunlan International Hotel
12 July 2021		
Opening Ceremony	Chairman: Ningsheng CHEN Research group leader of Academy of Plateau Science and Sustainability	Qinghai Normal University
8:30-9:00	1. Welcoming speech from leader of Qinghai Normal University 2. Opening speech from leader of Department of Emergency Management of Qinghai Province 3. Opening speech from leader of Qinghai Earthquake Agency 4. Opening speech from President of ICGdR	Academic Report Hall of Library (1F) in Chengbei Campus
9:00-9:10	Group photograph	
Keynote Lecture		
Academic Report Hall of Library (1F) in Chengbei Campus, Qinghai Normal University		
Chairman Fawu WANG Tongji University Qiang ZHANG Beijing Normal University		
09:10-09:35	Fan ZHANG (Institute of Tibetan Plateau Research, CAS) <i>Variation of sediment transport of rivers in Qinghai-Tibet Plateau</i>	Fawu WANG
09:35-10:00	Xiasong HU (Qinghai university) <i>Study on Mechanical Mechanism and Application of Plant Ecological Protection In the Northeastern Part of the Qinghai-Tibet Plateau</i>	
10:00-10:25	Ningsheng CHEN (Institute of Mountain and Environment, CAS) <i>Formation and Prevention of Mountainous Disasters</i>	
10:25-10:50	Prof. Huabin WANG (Huazhong University of Science and Technology) <i>Microstructure evolution and mechanical properties of granite residual soil considering the free iron oxide</i>	
Tea break (10:50-11:00)		
11:00-11:25	Prof. Tonglu LI (Chang'an University) <i>Investigation for the failure mechanism of the Shanyang catastrophic rock landslide</i>	Qiang ZHANG
11:25-11:50	Prof. Yonggang JIA (Ocean University of China) <i>In-situ surveying equipment of engineering geology in complex deep sea (SEEGeo)</i>	
11:50-12:15	Shengwen QI (Institute of Geology and Geophysics, CAS) <i>Experimental study on dynamic response of rock slope under strong earthquake by large shaking table</i>	
Lunch (12:15-14:00)		



Parallel Session One: Academic Report Hall of Library (1F) in Chengbei Campus, Qinghai Normal University

Invited Lecture		
14:00-14:20	Prof. Tingkai NIAN (Dalian University of Technology) <i>Evolution process investigation on the landslide dam formation using a numerical and experimental scheme</i>	Qiangong CHENG Huabin WANG
14:20-14:40	Prof. Xiaoyan ZHAO (Southwest Jiaotong University) <i>Rockfall size prediction of gently inclined red-bed in Sichuan Basin</i>	
14:40-15:00	Prof. Bin YE (Tongji University) <i>Evolution mechanism of solid-fluid phase transition in the whole process of sand flow liquefaction</i>	
15:00-15:20	Prof. Ling XU (Xi'an Jiaotong University) <i>Investigation of the spatial variability of loess physical-mechanical properties</i>	
Tea break (15:20-15:30)		
Youth Lecture		
15:30-15:45	Dr. Jidong TENG (Central South University) <i>Unusual frost heave in unsaturated coarse-grained soils</i>	Xiaoyan ZHAO Bin YE
15:45-16:00	Dr. Xiaoqing FENG (Tongji University) <i>Liquefaction analysis of underwater sandy slope by shaking table test</i>	
16:00-16:15	Dr. Kounghoon NAM (Tongji University) <i>Heavy rainfall induced catastrophic landslide in Gokseong, South Korea on 7 August 2020</i>	
16:15-16:30	Mr. Ye CHEN (Tongji University) <i>Experimental study on particle breakage behavior of granular soil by ring shear tests</i>	
Tea break (16:30-16:40)		
16:40-16:55	Dr. Xie HU (University of Houston Peking University) <i>Geo-disaster characterization using SAR remote sensing</i>	Ling XU Gang LUO
16:55-17:10	Dr. Wentao YANG (Beijing Forestry University) <i>Landslide precursor detections in Tibetan Mountains</i>	
17:10-17:25	Dr. Kongming YAN (Tongji University) <i>Management of run-out model for rapid dry granular gravity-driven channel landslides using array of obstacles</i>	
17:25-17:40	Mr. Chengcheng ZHANG (Northeast Forestry University) <i>Research on temporal and spatial distribution and variation characteristics of permafrost in Northeast China based on MODIS data</i>	
Closing Ceremony (18:00-18:30)		
Academic Report Hall of Library (1F) in Chengbei Campus, Qinghai Normal University		



Parallel Session Two: First Meeting Room of Library (10F) in Chengbei Campus, Qinghai Normal University

Invited Lecture		
14:00-14:20	Prof. Hu ZHENG (Tongji University) <i>The potential application of the Granular Jamming theory in geohazards reduction</i>	Wanghua SUI Yonggang JIA
14:20-14:40	Prof. Changbao GUO (Institute of Geomechanics, CAGS) <i>Study on the deformation characteristics of the giant Xiongba ancient landslide along the Jinsha River, Tibet, China</i>	
14:40-15:00	Dr. Hong SUN (Shanghai Jiao Tong University) <i>Cooling effect of the intensified ventilation composite embankment in permafrost regions</i>	
Tea break (15:00-15:10)		
Youth Lecture		
15:10-15:25	Dr. Yufeng WANG (Southwest Jiaotong University) <i>Experiments on granular flow behavior and deposit characteristics: implications for rock avalanche kinematics</i>	Tingkai NIAN Xiaolei LIU
15:25-15:40	Dr. Yaguo ZHANG (Chang'an University) <i>The capillary barrier preventing pavement damages caused by shrinkage and seepage in subgrade</i>	
15:40-15:55	Dr. Shuai ZHANG (Institute of Geomechanics, CAGS) <i>Characteristics of landslides triggered by the 2018 Hokkaido Eastern Iburi earthquake, Northern Japan</i>	
15:55-16:10	Dr. Wuwei MAO (Tongji University) <i>Acoustic emission / micro-seismic monitoring for failure analysis of granular materials</i>	
16:10-16:25	Dr. Xin LIAO (Southwest Jiaotong University) <i>Characteristics of granite-water interactions in high temperature and acid environment</i>	
Tea break (16:25-16:35)		
16:35-16:50	Dr. Guolong ZHU (Tongji University) <i>Remote monitoring and risk assessment for engineering geological disasters in Qingdao subway</i>	Hu ZHENG Shuai ZHANG
16:50-17:05	Mr. Hongwei LIU (Southwest Jiaotong University) <i>Effects of local topography on the mobility of rock avalanches: a preliminary statistical analysis</i>	
17:05-17:20	Dr. Zexi SHEN (Beijing Normal University) <i>Mining activities exacerbate global dryland degradation</i>	
17:20-17:35	Mr. Zhichao XU (Northeast Forestry University) <i>Geological methane emissions and wildfire risk in the degraded permafrost area of the Xiao Xing'an Mountains, China</i>	
Closing Ceremony (18:00-18:30)		
Academic Report Hall of Library (1F) in Chengbei Campus, Qinghai Normal University		



**Parallel Session Three: Second Meeting Room of Library (10F) in Chengbei
Campus, Qinghai Normal University**

Invited Lecture		
14:00-14:20	Prof. Ping LI (China Institute of Disaster Prevention) <i>Reconstruction of ground motion amplification based on an SMASS array site</i>	Tonglu LI Wuwei MAO
14:20-14:40	Dr. Mingxun HOU (Shanghai Jiao Tong University) <i>Searching the noncircular critical slip surface of slope based on improved ant colony system algorithm and its applications</i>	
14:40-15:00	Prof. Xin YAO (Institute of Geomechanics, CAGS) <i>Spatioal-temporal rules of bank deformation and failure in Jinshajiang downstream reservoirs discovered by InSAR</i>	
Tea break (15:00-15:10)		
Youth Lecture		
15:10-15:25	Dr. Hufeng YANG (Southwest Jiaotong University) <i>Model test on the surficial failure of granular slope</i>	Ping LI Zili DAI
15:25-15:40	Dr. Gang LUO (Southwest Jiaotong University) <i>An analytical method for the impact force of a cubic rock boulder colliding onto a rigid barrier</i>	
15:40-15:55	Mr. Qiwen LIN (Southwest Jiaotong University) <i>Simulation of the fragmentation and propagation of jointed rock masses in rockslides: DEM modeling and physical experimental verification</i>	
15:55-16:10	Dr. Tengyuan ZHAO (Xi'an Jiaotong University) <i>Probabilistic evaluation of loess landslide impact using multivariate model</i>	
16:10-16:25	Dr. Cong HU (Ocean University of China) <i>Variations of bottom boundary layer in Shenhu area of South China Sea</i>	
Tea break (16:25-16:35)		
16:35-16:50	Dr. Ran LI (Institute of Geomechanics, CAGS) <i>Technique and application of in-situ stress measurement in deep hole</i>	Yufeng WANG Hufeng YANG
16:50-17:05	Mr. Dian XIAO (Southwest Jiaotong University) <i>Influence of acid rain on structural plane weakening mechanism: a case study from a gabbro slope</i>	
17:05-17:20	Mr. Xiucheng ZHAO (Southwest Jiaotong University) <i>Classification of granite blocked stones scattered on the slopes (GBSS) in southeastern China</i>	
17:20-17:35	Mr. Lisha QIU (Northeast Forestry University) <i>The distribution of wildfires proves the geological methane emissions from the degradation process of permafrost</i>	
Closing Ceremony (18:00-18:30)		
Academic Report Hall of Library (1F) in Chengbei Campus, Qinghai Normal University		



Introduction of Keynote Lectures

Prof. Fan ZHANG (Institute of Tibetan Plateau Research, CAS)



Prof Zhang is a professor at the Institute of Tibetan Plateau Research, CAS and Engaged in research on water, sand and water environment of the Qinghai-Tibet Plateau. She had completed 2 major research projects. After returning to China, she has presided over 5 projects like NSFC "Outstanding Youth" and 1 important project of the Knowledge Innovation Project of CAS. As a research backbone, she participated in the 5 major projects from the NSFC, the Ministry of Science and Technology, and the Chinese Academy of Sciences. She presided over the compilation of 1 English monograph, published more than 70 SCI papers, and was invited by the United Nations Intergovernmental Panel on Climate Change (IPCC) working group as the author of the water chapter of the "IPCC Sixth Assessment Report". She won the "Qinghai-Tibet Plateau Youth Science and Technology Award". She is currently a member of the Ecological Hydrology Professional Committee of the Chinese Ecological Society, a member of the Soil Physics Professional Committee of the Chinese Soil Society, the deputy editor of Journal of Hydrological Engineering (ASCE), and an editorial board member of the International Soil and Water Conservation.

Prof. Ningsheng CHEN (Institute of Mountain and Environment, CAS)



Prof. Chen is director of Bomi Geological Hazard Observation and Research Station CAS, distinguished researcher of Chengdu Mountain Institute of CAS, expert of special allowance from the State Council, Member of the National Standards Committee, academic and technical leader in Sichuan Province, deputy director of the Mountain Branch of the Chinese Geographical Society and the Applied Quaternary Committee of the Chinese Institute of Quaternary Science. He has presided over 5 NSFC projects (including 2 key projects), 4 science and technology support projects of the Ministry of Science and Technology and 6 China-UK, China-Nepal, China-Australia, and China-Chile international cooperation projects. The results of "Debris Flow Disaster Prediction and Comprehensive Prevention and Control Technology" were selected as the top ten scientific and technological advances in China's ecological environment in 2019. His achievements won 1 second prize of National Science and Technology Progress Award, 2 first prizes of Sichuan Province Science and Technology Progress Award, 2 first prizes of Science and Technology Achievement Promotion Award of CAS, 1 second prize of Xinjiang Science and Technology Progress Award. He Published 127 papers (46 SCI papers as the first or corresponding author), was granted 11 invention patents and computer software copyrights.



Prof. Huabin WANG (Huazhong University of Science and Technology)



Prof. Wang works in Huazhong University of Science and Technology as a professor majored in Engineering Geology and Geotechnical Engineering. He was born in Hubei in 1968, and graduated with first Class Honors in Geology from Changchun College of Geosciences in 1990. In 2001, he was awarded a PhD in Engineering Geology from the China University of Geoscience in Wuhan. After his PhD studies, Prof. Wang visited the Royal Melbourne Institute of Technology, supported by CSC Scholarship. In 2003, He worked as a post doctor in Kyoto University, supported by JSPS in Japan. From 2005, Prof. Wang joined the Department of Civil Engineering at the Huazhong University of Science and Technology (HUST) as an associate professor in Engineering Geology, being promoted to professor in Aug 2008.

During his continuing appointment, Prof. Wang's research, teaching and service to the University and the profession have earned him an international reputation in the field of engineering geology, geotechnical engineering, specializing in the slope engineering, geomechanics of decomposed granite soils, and landslide mitigation. Prof. Wang developed this field from scratch, and continues to make significant contributions to research and industry practice, for which he has developed an international research, teaching and consulting reputation over the last 20 years.

Prof. Tonglu LI (Chang'an University)



Professor of Geological Engineering at Chang'an University, China. He had ever been Head of the Department of Geological Engineering and Vice-dean of the School of Geological Engineering and Geomatics. He has been involved in geological research, consulting and education for more than 25 years. He is the author or co-author of more than 200 scientific papers and published the books 《Landslide Disaster Mitigation in Three Gorges Reservoir, China》 and 《Progress of Geo-Disaster Mitigation Technology in Asia》. He sits in the Editorial Board of Geo-environmental Disasters. He is Secretary General of International Consortium on Geo-disaster Reduction. He has consulted for many key projects of urban buildings, highways, hydro-power stations, oil-gas transfer lines and nuclear electric plants in China. His research interests are focused on unsaturated soil mechanics, geo-environment

and geo-disaster. In recent years, he has achieved three National Natural Science Funds and a National Basic Research Program which are related to the unsaturated loess permeability and loess geo-disasters.



Prof. Yonggang JIA (Ocean University of China)



Prof. Yonggang Jia works at Ocean University of China. He is the director of Shandong Provincial Key Laboratory of Marine Environment and Geological Engineering, the chairman of Marine Engineering Geology Commission (IAEG-C34), the president of Prevention and Control of Marine Engineering Geological Disasters Branch of Chinese Society of Rock Mechanics & Engineering, and the director of the Marine Working Committee of the Engineering Geology Committee of the Geological Society of China. He is the editor-in-chief of Geoenvironmental Disasters, the guest editor of

Bulletin of Engineering Geology and Environment, the theme editor of Water, and the editorial board member of Journal of Engineering Geology and the Chinese Journal of Geological Hazard and Control. His research primarily focuses on marine engineering geology and the research area mainly includes the Yellow River underwater delta and the northern slope of the South China Sea. His research includes marine geo-hazards in-situ observation and the mechanism of dynamic change process of submarine boundary layer. His team has developed a series of in-situ long-term monitoring equipment on the seabed. He presided over the National Key R&D Program of China, the Major Scientific Research Instrument and Equipment Development Special Project of the National Foundation of China, and the Important Project Supported by National Natural Science Foundation of China. He has published more than 300 papers, including more than 60 papers that have been indexed by SCI/EI. In addition, he has published 5 Chinese and English monographs. He has been granted 36 invention patents in China and 8 invention patents in the United States, Japan, Australia, and Germany. He has won 12 provincial and ministerial awards.

Prof. Shengwen Qi (Institute of Geology and Geophysics, CAS)



Prof. Qi mainly researches the seismic dynamic response of rock slope, the dynamic effect of rock mass structure and the genetic mechanism of gravity deformation of high rock slope. He is also the Chairman of Commission No.29 Structure and Behavior of Soil and Rock Masses of International Association for Engineering Geology and the Environment (IAEG), Secretary General of IAEG Chinese Committee, Member of IAEG Youth Committee, Life Council Member of International Consortium on Geo-Disaster Reduction (ICGDR), Director of the Key Laboratory of Shale Gas and Geological Engineering of Chinese Academy of Sciences, Secretary General of Engineering Geology Committee of Chinese Geological Society, Standing Member of Chinese Society of Rock Mechanics and Engineering, Vice Chairman of Rock Dynamics Committee, Editorial board member of several authoritative journals in the field of Engineering Geology. He has

presided over more than 20 national basic research projects, science and technology research projects aimed for key task, as well as projects entrusted by national large enterprises. Prof. Qi has published more than 200 papers and his papers have been cited for more than 3000 times. He has published 8 monographs, developed 1 set of research equipment, and authorized more than 20 patents. He has been awarded the title of Leading Talent of Science and Technology Innovation in the National Ten Thousand Talents Program, the Richard Wolters Prize of IAEG Young Top Science and Technology Award, and the First Prize of Natural Science of China Society of Rock Mechanics and Engineering.



Contents: Field investigation of Geo-disaster in Qilian Mountain and Yellow River Valley

D1: Xining-Datong-Menyuan-Qilian:

Investigation on landslides, rockfall and debris flow at Heiquan Reservoir in Qilian mountain;

Investigation on high-mountain frost weathering and freezing-thawing landslides in Qilian mountain;

D2: Qilian-Mole Town-Haergai Town-Gangca: (over 3000 m asl in average)

Investigation on fluvial erosion and cliff collapse in valley region of Qilian Mountain;

Investigation on frost weathering rock avalanche in high-mountain region;

D3: Gangca-East Qinghai Lake-Guide-Xining:

Investigation on wind erosion and desertification, debris flow induced by glacier meltwater and debris flow in strong erosion areas;

Investigation on Erosion accumulation, cliff collaps, rockfall and debris flow in valley region of Yellow River.





Participants

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Introduction of Qinghai Normal University

Qinghai Normal University is located in an ancient city on the Qinghai-Tibet Plateau, Xining, was founded in 1956. It has a beautiful environment and a long history, mainly undertakes the functions of graduate education, international student education, and continuing education and professional training. The university has formed a complete education system with undergraduate education, postgraduate education, international student education, adult education and vocational education after 65 years of pioneering and enterprising efforts. It is a comprehensive provincial key university in China with teacher education, ethnic education and education with highland regional characteristics. With 10 disciplines covering philosophy, economics, law, pedagogy, literature, history, science, engineering, management and art. There are 61 undergraduate majors, including 4 national characteristic majors, one national excellent course and 23 provincial excellent courses. It is the first "national civilized campus", the "excellent teacher training project unit" of the Ministry of Education, the "Model University of deepening innovation and entrepreneurship education reform" of the Ministry of Education, the "model unit of national unity and progress" of the State Ethnic Affairs Commission, and the national pilot university for the cultivation of high-level athletes.

Qinghai Normal University has two campuses including the west-district campus and the north-district campus and has more than 110000 graduates and 17578 students in the school. University has acquired the right to grant doctor's degrees in 3 first-level disciplines, 12 second-level disciplines and master's degrees in 17 first-level disciplines and 102 second-level disciplines and the authorization of 10 professional master's degrees, two postdoctoral research stations in Chinese history and geography as well. One domestic first-class discipline, three provincial first-class disciplines and 13 provincial key disciplines have been approved.

University has three research institutes, including the Academy of Plateau Science and Sustainability, "Two Bombs and One Star" Spirit Research Institute and Silk Road Economic Belt Research Association of Qinghai Province. It has 13 provincial key laboratories, 6 provincial-level research centers and 4 national and provincial experimental teaching demonstration center as well.



