The International Year of Basic Sciences for Sustainable Development launched by UNESCO highly recognized the importance of basic sciences for attaining sustainable development. As a transdisciplinary discipline studying the coupled human and nature systems and their interactions, geography has natural advantages to promote sustainable development by providing the underpinning theories, methodologies, models and data. Geographers have made important contributions to exploring the nexus between the natural and social sciences, and delivered knowledge and experiences that are needed to support transformation towards sustainable development. The International Workshop on Geography and Sustainability 2023 aims to identify the challenges and explore the opportunities associated
with geography and sustainable development. All submissions addressing sustainable development from a geography perspective will be warmly welcomed.

I. Organization

Host: Beijing Normal University/The International Geographical Union/The Geographical Society of China

Organizer: Faculty of Geographical Science, Beijing Normal University/IGU Commission on Geography for Future Earth: Coupled Human-Earth Systems for Sustainability (IGU-GFE)

Support: Geography and Sustainability

II. Committee

Scientific Committee

Chairs

Bojie Fu (Beijing Normal University, China; Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, China; IGU Vice-President)

Michael Edward Meadows (University of Cape Town, South Africa; Nanjing University, China; IGU President)

Organizing Committee

Chairs

Changqing Song (Beijing Normal University, China)

Guoyou Zhang (The Geographical Society of China)

III. Important Dates
Deadline for abstract submission: August 31, 2023
Notification on abstract acceptance: August 31, 2023
Deadline for early registration: August 31, 2023
Deadline for standard registration: September 30, 2023
Publication of conference guide: September 30, 2023

IV. Call for abstracts
Abstract submission is open for the proposed sessions now. You will be required to provide the following information for your abstract, including Title, Abstract up to 300 words, Keywords, Author information (Name, Affiliation/Organization, Contact Email, etc.), and session topic most relevant to your submission. Presentation mode (Oral or Poster) will be decided at the time of session scheduling. Author's preferred presentation mode is usually honored though not guaranteed to be satisfied.

https://geosus2023.scievent.com/submission/guidelines/

Thematic Sessions
1. Carbon emissions, sequestrations and carbon neutrality
Conveners
Yangjian Zhang (Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, China)
Jonathan Adams (Nanjing University, China)

2. Climate-smart conservation
Conveners
Walter Musakwa (University of Johannesburg, South Africa)
Regis Musavengane (University of Johannesburg, South Africa)
3. Coupled Human-cultivated land utilization systems
Conveners
Xiangbin Kong (China Agricultural University, China)
Minghong Tan (Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, China)
Xinli Ke (Huazhong Agricultural University, China)

4. Dryland climate change and water cycle
Conveners
Jianping Huang (Lanzhou University, China)
Haipeng Yu (Northwest Institute of Eco-Environment and Resources, Chinese Academy of Sciences, China)

5. Dryland sustainability
Conveners
Nan Lu (Research Center for Eco-Environmental Sciences Chinese Academy of Sciences, China)
David Eldridge (UNSW, Australia)
Changliang Shao (Chinese Academy of Agricultural Sciences, China)
Jingyi Ding (Beijing Normal University, China)

6. Earth observation and big earth data for sustainability
Convener
Bingfang Wu (Aerospace Information Research Institute, Chinese Academy of Sciences, China)

7. Ecological security, risk, and sustainability in urbanization
Conveners
Jian Peng (Peking University, China)
Yanxu Liu (Beijing Normal University, China)

8. Ecosystem service flow and payment for ecosystem service
Conveners
Jing Li (Shaanxi Normal University, China)
Xianfeng Liu (Shaanxi Normal University, China)

9. Geography education and sustainable development
Conveners
Paulo Pereira (Mykolas Romeris University, Lithuania)
Wenwu Zhao (Beijing Normal University, China; IGU Commission on Geography for Future Earth: Coupled Human-Earth Systems for Sustainability)

10. Human-nature coupling system and sustainability
Conveners
Shuai Wang (Beijing Normal University, China)
Örjan Bodin (Stockholm Resilience Centre at Stockholm University, Sweden)
Haibin Chen (Northwest A&F University, China)

11. Land degradation as a local and global challenge
Convener
Matija Zorn (Research Centre of the Slovenian Academy of Sciences and Arts, Anton Melik Geographical Institute, Slovenia; IGU Commission on Land Degradation and Desertification)

12. Landscape dynamics and extreme events in the Himalaya: experiences and case studies
Conveners
Pankaj Kumar (University of Delhi, India)
Manish Kumar (Central University of Haryana, India)
Shipra Singh (Miranda House, India)

13. Land use/land Cover change and sustainable development
Conveners
Monica Dumitrascu (Institute of Geography, Romanian Academy, Romania; IGU Commission on Land Use and Land Cover Change)

Conveners
Carla Ferreira (Coimbra Polytechnic Institute, Portugal)
Zahra Kalantari (KTH Royal Institute of Technology, Sweden)
Pan Haozi (Shanghai Jiaotong University, China)
Karen Sudmeier-Rieux (TH Kéln, University of Cologne, Germany)
Milica Kasanin-Grubin (University of Belgrade, Republic of Serbia)

15. Nature-based Solutions for synergy of social-ecological-economic development
Conveners
Ming Luo (Key Laboratory of Land Consolidation and Rehabilitation, Ministry of Natural Resources, China)
Jun Wang (Land Consolidation and Rehabilitation Center, MNR; Land Science and Technology Innovation Center, MNR, China)
Yan Zhang (IUCN China Office, China)
Emmanuelle COHEN-SHACHAM (Nature-based Solutions Thematic Group, CEM, IUCN, USA)
Zhaowu Yu (Fudan University, China)

16. Rural geography in achieving sustainable development
Conveners
Hualou Long (Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, China)
Yingnan Zhang (Zhejiang University, China)

17. Smart cities and sustainability in comparative perspective
Conveners:

Gary Sigley (Faculty of Geographical Science, Beijing Normal University, China)
Marcus Foth (Faculty of Creative Industries, Education, and Social Justice, Queensland University of Technology, Australia)
Mengmeng Zhang (Faculty of Geographical Science, Beijing Normal University, China)

18. Sustainable development goals: assessments, interactions, and advancing pathways
Conveners
Xutong Wu (Beijing Normal University, China; IGU Commission on Young and Early Career Geographers Working Group on Geography and Sustainability)
Gabriela Morosanu (Institute of Geography, Romanian Academy, Romania; IGU Commission on Young and Early Career Geographers Working Group on Geography and Sustainability)

19. Sustainable transformation of agricultural land system
Conveners
Xiangzheng Deng (Institute of Geographic Sciences and Natural Resources Research, CAS, China)
Hua Qin (Division of Applied Social Sciences, University of Missouri-Columbia, USA)
John Gibson (University of Waikato, New Zealand)

20. Sustainable water resources management in agriculture under drought scenario
Conveners
Paolo Tarolli (University of Padova, Italy)
Eugenio Straffelini (University of Padova, Italy)

21. Third pole environment and sustainability
Conveners
Jian Sun (Institute of Tibetan Plateau Research Chinese Academy of Science, China)
Hua Shang (Rutgers University, USA)

22. Transitional geospace and human-nature coupling for sustainability
Conveners
Wei Deng (Sichuan Normal University, China)
Lianqi Zhu (Henan University, China)
Junhong Bai (Beijing Normal University, China)
Jintong Liu (IGDB, CAS, China)
Yuluan Zhao (Guizhou Normal University, China)
Shaoyao Zhang (Sichuan Normal University, China)

23. Understanding hazards and risks for sustainable development
Convener
Takashi Oguchi (The University of Tokyo, Japan; IGU Commission on Hazard and Risk)

24. Urban green spaces and sustainability
Conveners
Long Li (China University of Mining and Technology, China)
Xinyang Yu (Shandong Agricultural University, China)
Changlong Li (Guangzhou College of Commerce, China)

25. Urban sustainability: coupling social-ecological systems to overcome climate and biodiversity crises
Conveners
Michael Meadows  (Nanjing University, China; The International Geographical Union)
Fanhua Kong (Nanjing University, China)
Ariane Middel (Arizona State University, USA)

V. Keynote Speakers
* In alphabetical order of first name

**Bojie Fu, Beijing Normal University; Chinese Academy of Sciences, China**

Dr. Bojie Fu is a distinguished professor of Geography and Landscape Ecology. He is the honorary Dean of Faculty of Geographical Science, Beijing Normal University and Professor of Research Centre for Eco-Environmental Sciences, Chinese Academy of Sciences. He is an elected Member of Chinese Academy of Sciences, International Honorary Member of American Academy of Arts and Sciences, Fellow of the World Academy of Sciences (TWAS) and Corresponding Fellow of the Royal Society of Edinburgh. His research areas are landscape pattern and ecological processes, land use and land cover change, ecosystem services and sustainable development. Prof. Fu is the Vice President of the International
Geographical Union (2018-2026), former Vice President of Future Earth China Committee (2014-2022), former President of the Geographical Society of China (2015-2019), former Vice President of the International Association for Landscape Ecology (2009-2013). He won numerous prestigious awards for his seminal accomplishments, including the Distinguished Service Award of the International Association for Landscape Ecology, The Ho Leung Ho Lee Science and Technology Prize, the Alexander von Humboldt Medal of the European Union of Geosciences, China National Natural Science Prize, TWAS - Lenovo Science Award, the Tan Kah Kee Earth Science Award – Earth Sciences, and the third National Innovation Excellence Prize. Prof. Fu has published more than 600 papers in peer-reviewed journals and 10 books with more than 400 papers published in SCI-indexed journals such as Science, Nature, Nature Geoscience, Nature Climate Change, Nature Sustainability, Nature Ecology & Evolution, Science Advances, National Science Review, etc. He serves as Editor in Chief of many journals such as Geography and Sustainability, Chinese Geographical Science, and Acta Ecologica Sinica.

Chansheng He, Western Michigan University, USA
Dr. Chansheng He, professor of geography, is a Distinguished Faculty Scholar at Western Michigan University. He is a Fellow of American Association for the Advancement of Science (AAAS), Fellow of American Association of Geographers (AAG), and has received Fulbright – University of Leeds Distinguished Scholar Award, AAG Water Resources Specialty Group Gilbert F. White Distinguished Career Award, and Fulbright Senior Specialist Awards. He serves on the editorial boards of Ecosystem Health and Sustainability, and Geography and Sustainability. His research involves watershed hydrology, soil hydrology, nonpoint source pollution, land-atmosphere interactions, and water resources management, but mainly focuses on integration of in situ observations, remote sensing, GIS, and simulation models to better observe, understand, and analyze how land use/cover change resulting from human-environmental interactions affects the watershed hydrological processes and water cycles at multiple spatial scales and provides feedback to the land-atmosphere interactions. He is a reviewer for over 20 international funding agencies and for >50 journals.

**Charles Karangwa, IUCN Nature based Solutions (NbS) Management Hub**
Charles Karangwa is the Global Head of Nature-based Solutions (NbS) Management Hub based in Gland, Switzerland. Before joining IUCN HQ, he served as Regional Head of Land Systems, Covering Forests, Drylands, Nature Based Solutions, Sustainable Agriculture at IUCN, Africa Region. He served as Country Representative for Rwanda since January 2016 and was appointed Country Representative for Kenya starting from 1st of June 2022. Charles have led IUCN Work on Land restoration in Africa as part of the Decade of Ecosystem Restoration, Bonn Challenge and AFR100, he engaged both Governments and Non States actors to bring Africa’s commitments to land restoration up to speed since 2016. In 2020, he joined the COP26 High Level Champion team as the lead for land restoration in Africa and worked to engage private sector and other Non-State Actors for an ambitious climate action to Race to Zero and Race to Resilience by 2050.

With more than 18 years of Experience in interface between sustainable development, conservation, and sustainable finance in Africa and South East Asia, Charles focused his work on Climate Change, sustainable agriculture, biodiversity conservation, nature-based solutions, ecosystem restoration, and sustainable finance. Prior to joining IUCN in 2016, Charles worked for UNHCR, WCS, Oxfam Novib and Care International.

**David Eldridge, University of New South Wales, Australia**
Dr. David Eldridge is Professor at the School of Biological, Earth and Environmental Sciences, University of NSW, Sydney, Australia. He has more than 40 years of experience in rangeland management and assessment, and the ecology of dryland systems. He is an editor of Restoration Ecology and has published over 300 papers in international journals. Over the past decade David’s research has focused on the effects of grazing on ecological processes, shrub encroachment, animal effects on soils and the ecology and management of soils in drylands and urban greenspaces.

**Fahu Chen, Chinese Academy of Sciences, China**

Dr. Fahu Chen is CAS Academician elected in 2015, The Member of the World Academy of Sciences (TWAS) elected in 2016, a research professor and director of Institute of Tibetan Plateau Research, Chinese Academy of Sciences (CAS). He is the president since 2019 and fellow of Geographical Society of China (GSC), and associate Chairman of Environment Evolution Commission of IGU since 2012. Prof. Chen was a professor for physical geography and Quaternary Science in Lanzhou University during 1994-2018, and director of key Laboratory of West China's Environmental System (Ministry of Education of China) during 2005-2016. He was chairman of
Rapid Climatic Changes in the Central-Asia's Dryland under INQUA (INQUA RACHAD Working Group, 1999-2007), and now is vice presidents of China Society on Tibetan Plateau, and China Quaternary Research Associate. His scientific work involves Quaternary environmental changes (especially during Holocene), climate changes, environmental archeology, loess record, desert evolution and palaeolimnology with special focus on paleoenvironmental reconstruction, past human-environment interactions in Arid Central Asia and the Tibetan Plateau. He has published more than 690 papers in peer-reviewed journals of both English and Chinese with more than 420 papers published in SCI journals such as Nature, Science, NCC, NC, NS, PNAS, QSR, which are cited more than 19900 times by papers of SCI journals with H index of 69, and carried on numerous projects from China National Natural Science Foundation, Ministry of Science and Technology, Chinese Academy of Science, and Ministry of Education. Most of them are involved by international research groups. Currently, he is Executive Editors-In-Chief of Science Bulletin, Editors-In-Chief of Scientia Geographica Sinica, associate editors of Geoscience and Society section, Frontiers in Earth Science, Fundamental Research, Frontier of Earth Science, and editors of Palaeogeography, Palaeoclimatology, Palaeoecology, Geography and Sustainability, One Earth, and some associate editors and editors of journals in Chinese.

Holly Barcus, Macalester College, USA
Dr. Holly Barcus, DeWitt Wallace Professor of Geography at Macalester College in Saint Paul, Minnesota. Her research interests reside at the intersection of migration, ethnicity and rural peripheries with her primary research areas including Mongolia and remote regions of the United States. Her core research is situated in western Mongolia amongst the Kazakh population considering questions of place identity, ethnicity, environment, and changing migration trajectories. Additionally, she works rural regions of the United States, including Appalachia, the Great Plains and the Great Lakes. She holds degrees from the University of North Carolina at Charlotte, Kansas State University and The Australian National University. She currently serves as the Director of Asian Studies at Macalester College and Vice President & Treasurer of the Executive Committee of the International Geographical Union (IGU).

**Jianguo Liu, Michigan State University, USA**
Dr. Jianguo (Jack) Liu is a world leader in systems integration for sustainability (e.g., integration of ecology with social sciences, policy, and technologies for understanding and promoting global sustainability). He holds the Rachel Carson Chair in Sustainability, is University Distinguished Professor at Michigan State University, and serves as director of the Center for Systems Integration and Sustainability. He is particularly keen to connect seemingly unconnected issues, for example, telecoupling, divorce, and environmental sustainability. Prof. Liu is a former president of US-IALE (U.S. Regional Association, International Association for Landscape Ecology) and is chairing the Committee on “Research at Multiple Scales” of The National Academies. He has served on editorial boards of many international journals such as Science. His pioneering work has been recognized by numerous prestigious awards, including the Eminent Ecologist Award of the Ecological Society of America, Gunnerus Award in Sustainability Science from the Royal Norwegian Society of Sciences and Letters & the Norwegian University of Science and Technology, and the World Sustainability Award from the MDPI Sustainability Foundation in Switzerland. He is an elected member of the American Philosophical Society, American Academy of Arts and Sciences, and Royal Norwegian Society of Sciences and Letters.

Michael Meadows, University of Cape Town, South Africa; Nanjing University, China
Dr. Michael Meadows is President of the International Geographical Union, Professor in the School of Geography and Ocean Sciences at Nanjing University and is a Senior Research Scholar in the Department of Environmental and Geographical Science at the University of Cape Town, where he was Head of Department from 2001-2017. Meadows has authored or co-authored more than 200 peer-reviewed research articles and edited several special editions of international journals. More substantial works include the co-edited *Southern African Geomorphology* (Sun, 2012) and *Geomorphology and Society* (Springer, 2016) and he is currently co-editing volumes entitled *Research Directions, Challenges and Achievements of Modern Geography* (Springer) and *Geography of the Anthropocene* (Istanbul University Press). His research interests lie broadly in the field of physical geography and more specifically concern Quaternary environmental change and the geomorphological and biogeographical impacts of geologically recent natural and anthropogenic changes. Meadows is an elected Fellow of the Royal Geographical Society, the Society of South African Geographers, the Royal Society of South Africa, the African Academy of Science, *Academia Europaea* and of the University of Cape Town. Most recently, he was elected as Fellow of the Geographical Society of China and of the International Science Council.
Dr. Peijun Shi is a professor of geography at Beijing Normal University. He is the deputy dean of the Academy of Disaster Reduction and Emergency Management, Ministry of Emergency Management and Ministry of Education of China. Prof. Shi is an academician of the International Eurasian Academy of Sciences. He is the co-chair of the scientific committee of the Integrated Risk Governance Project, a core project of Future Earth and the International Human Dimensions Programme of Global Environmental Change. He also services as the member of the UNISDR Scientific and Technical Advisory Group, the chairman of the Asia Scientific and Technical Advisory Group for DRR, the jury member of the Volvo Environment Prize, the chairman of The Expert Committee of National Disaster Reduction Commission of China, the vice chairman of The Insurance Society of China, and the member of the Expert Group of the State Emergency Management Office under The State Council of China. Prof. Shi’s research focuses on the theory of natural disasters and risk management.
Ya Ping Wang, *University of Glasgow, UK*

Dr. Ya Ping Wang is Chair Professor in Global City Futures at the School of Social and Political Sciences, University Glasgow. He is Director and Principal Investigator of the Centre for Sustainable, Healthy and Learning Cities and Neighbourhoods (SHLC), a multi-national collaborative project funded by the UKRI Global Challenge Research Fund (GCRF). Professor Wang’s research focusses on urbanisation, housing, rural to urban migration, urban poverty and neighbourhood changes in China and other developing countries. He is author/co-author of *Housing Policy and Practice in China; Urban Poverty, Housing and Social Change in China*, and *Planning and Housing in the Rapidly Urbanising World*. Professor Wang recently led several major international collaborative research projects on urban transformation and neighbourhood studies involving over 100 researchers from UK, China and six other Asian and African Countries. Professor Wang is Fellow of Royal Society of Edinburgh (FRSE) and Fellow of Academy of Social Sciences (FAcSS).
Dr. Yansui Liu is a Fellow of the World Academy of Sciences (TWAS), Fellow of Geographical Society of China, and the Yangtze River Scholar. He is a Professor of the Institute of Geographic Science and Natural Resources Research, Chinese Academy of Sciences (CAS). He serves as Director General of Key Laboratory of Regional Sustainable Development Modeling, CAS, Director of Technology Innovation Centre for Rural Planning and Governance Engineering, Ministry of Natural Resources, Chair of the International Geographical Union Commission on Agriculture Geography and Land Engineering (IGU-AGLE), Chair of the Alliance of Poverty Reduction and Development (ANSO-APRD). He was a member of the expert advisory committee of the State Council’s Leading Group on Poverty Alleviation and Development, and the expert team leader of the Third-party Evaluation of the “Effectiveness of National Targeted Poverty Alleviation”. He also serves as the Associate Editor of journals including Land Use Policy, Scientia Geographica Sinica, and Economic Geography, and a member of editorial board of Science Bulletin, and Geography and Sustainability.
Prof. Liu is mainly engaged in the researches of human and economic geography and has made systematic achievements in many research fields, such as urban-rural transformation and rural regional systems, targeted poverty alleviation and rural revitalization, geographical engineering and human-earth system science, etc. He has presided over 70 projects including National Key R&D Projects, National Science and Technology Support Program, National Natural Science Foundation of China. He has won more than 20 awards such as IGU Distinguished Practice Award, TWAS Prize in Social Sciences, the Second Prize of National S&T Progress Award, the First Prize of Provincial and Ministerial S&T Awards, the National Outstanding Scientific and Technological Worker, National Innovation Award for Poverty Alleviation, and the National Innovation Excellence Prize. He has obtained 16 national invention patents, published 20 books, and more than 580 papers. He has been recognized as one of Most Cited Chinese Researchers in Social Sciences since 2015, and one of Global Highly-Cited Researchers since 2018.

**Yonglong Lu, Xiamen University, China**
Dr. Yonglong Lu is a Chair Professor of Xiamen University, Dean of College of the Environment and Ecology, and Director of International Institute for Sustainability Science. He is an elected Fellow of TWAS (The World Academy of Sciences); a foreign member of Academia Europaea (AE) and the Russian Academy of Sciences; an elected fellow of International Science Council; a member of UN Secretary General’s 10-member Group for SDGs (sustainable development goals); past President of Scientific Committee on Problems of the Environment (SCOPE); President of Pacific Science Association (PSA); Member of International Resource Panel, United Nations Environment Program (UNEP/IRP); Vice President of Ecological Society of China. He is the founding Editor-in-Chief of Ecosystem Health and Sustainability - a Science partner journal, an Associate Editor of Science Advances, and the founder and Associate Editor of Environmental Development.

His research interests include sustainability ecology, environmental geography, and environmental ecology. He has published 360 papers in peer reviewed journals such as Science, Nature, Science Advances, PNAS, Nature Sust. and Nature Comm. He is a highly cited international scientist. He has obtained various awards and honors, including the 2nd Prize of National Award for Advancement of Science and Technology, 1st Prize in Science and Technology for Promoting Development by the Chinese Academy of Sciences, 2nd Prize and 3rd Prize for Advancement of Science and Technology by the Chinese Academy of Sciences, Green Design International Contribution Award, SCOPE Distinguished Achievement Award, and Scientific Chinese 2019 Outstanding Contribution Award.
VI. Registration fee

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VII. Contact us

Conference e-mail: geosusconference@bnu.edu.cn

Wenwu Zhao (Faculty of Geographical Science, Beijing Normal University, China)

Yiran Du (Geography and Sustainability, China)