

## 国际地球科学论坛聚焦可持续发展

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新华社北京8月23日电 以“地球科学与可持续发展”为主题的国际地球科学高端论坛近日在北京举行。来自我国和美国、日本等国科学家就当前地球科学前沿及社会发展相关问题展开研讨，以推动地球科学领域的国际交流与合作，推动人类社会的可持续发展。

中国科学院院士秦大河在题为“气候变化条件下冰冻圈科学的发展”演讲中，阐述了冰冻圈的消失对河流水质、绿洲和生态系统的影响，指出气候变化对冰冻圈的影响不可避免，提倡通过模拟手段进一步研究气候变化背景下冰冻圈的变化。

国际大地测量和地球物理学联合会（IUGG）中国委员会副主席、中国科学院院士陈晓非在演讲中介绍了基于物理过程的计算模型、计算地震学在灾害监测中的最新应用，指出基于超级计算机应用的数值模拟方法，是地震灾害监测研究的未来方向。

中国科学院外籍院士、瑞典哥德堡大学教授陈德亮在“为全球可持续发展提供基础”的演讲中，阐述了全球变化与社会挑战，指出人口增加和环境退化是影响人类社会发展的主要因素。为遏制全球变暖带来的不利影响，全球气温升高应控制在1.5°C以内。

IUGG中国委员会副主席、中国科学院院士夏军说，地球科学各领域的国际交流与合作，可以更好地形成全球和国家行

## International Earth Science Forum focuses on sustainable development

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BEIJING, Aug. 23 (Xinhua) -- The International High-End Forum on Earth Science with the theme of "Earth Science and Sustainable Development" was held in Beijing recently. Scientists from China, the United States, Japan and other countries discussed the current frontier of earth science and social development-related issues to promote international exchanges and cooperation in the field of earth science and the sustainable development of human society.

In his lecture entitled "Development of Cryosphere Science under Climate Change", Qin Dahe, an academician of Chinese Academy of Sciences, explained the impact of the disappearance of cryosphere on river water quality, oasis and ecosystem, pointed out that the impact of climate change on cryosphere is inevitable, and advocated to further study the change of cryosphere under the background of climate change by means of simulation.

In his presentation, Chen Xiaofei, Vice Chairman of the International Union of Geodesy and Geophysics (IUGG) China Committee and academician of Chinese Academy of Sciences, introduced the latest applications of physical process-based computational models and computational seismology in disaster monitoring, and pointed out that numerical simulation methods based on supercomputer applications are the future direction of earthquake disaster monitoring research.

In his lecture "Providing the basis for global sustainable development", Prof. Deliang Chen, a foreign academician of Chinese Academy of Sciences and professor of Gothenburg University, Sweden, explained the challenges of global change and society, pointing out that population increase and environmental degradation are the main factors affecting the development of human society. To curb the adverse effects of global warming, the global temperature increase should be limited to 1.5°C.

Xia Jun, vice chairman of the IUGG China Committee and academician of the Chinese Academy of Sciences, said that international exchange and cooperation in various fields of earth sciences can

动计划，通过系统性项目的研究与实践，实现解决可持续发展难题的科学技术创新。同时，结合中国重大政策和国际地球科学前沿，着眼当前中国地球科学涉及的可持续发展实际问题，提出包括应对气候变化在内的有效措施和实践方案，以对中国水安全、大气污染及其防治、经济可持续发展等起到积极的推动作用。

2019年是IUGG成立100周年。IUGG秘书长艾力克·伊斯梅尔-扎德（Alik Ismail-Zadeh）表示，IUGG将进一步加强地球科学国际交流与合作，促进地球科学发展，并将相关知识传达给相关政府和决策者，更好地推动人类社会可持续发展。

better form global and national action plans to achieve scientific and technological innovations to solve sustainable development challenges through the research and practice of systematic projects. At the same time, it combines China's major policies and international geoscience frontiers, focuses on the current practical problems of sustainable development involved in China's geosciences, and proposes effective measures and practical solutions, including addressing climate change, in order to play a positive role in promoting China's water security, air pollution and its prevention, and sustainable economic development.

IUGG Secretary General Alik Ismail-Zadeh said that IUGG will further strengthen international exchanges and cooperation in earth sciences, promote the development of earth sciences, and convey relevant knowledge to relevant governments and policy makers to better promote the sustainable development of human society.

