

2018 Annual Report: China National Committee for IGCP



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Part Two: Membership of the Committee

Prof. Deng Jun	President, China University of Geosciences (Beijing)
Prof. Fan Weiming	Executive Deputy Director, Institute of Tibetan Plateau Research, Chinese Academy of Sciences
Prof. Jin Zhijun	Director, SINOPEC Petroleum Exploration and Production Research Institute
Prof. Liu Chuncheng	Deputy Director, Exploration Department, Research Center of China National Offshore Oil Corporation (CNOOC)
Mr. Wang Manda	Deputy Director-General, Department of Science and Technology, China Earthquake Administration
Prof. Wang Yanxin	President, China University of Geosciences (Wuhan)
Prof. Xiao Wenjiao	Deputy Director, Institute of Geology and Geophysics, Chinese Academy of Sciences
Prof. Yang Bing	Director, China Non-Ferrous Metals Resource Geological Survey
Prof. Zhang Lifei	Dean, School of Earth and Space Sciences, Peking University
Prof. Zhao Wenzhi	Director, Research Institute of Petroleum Exploration and Development, China National Petroleum Corporation

Part Three: On-Going IGCP Projects**I. 7 IGCP Projects with Project Leaders from China:**

No. 630	Permian-Triassic Climatic and Environmental Extremes and Biotic Response Prof. Chen Zhongqiang, China University of Geosciences (Wuhan)
No. 632	Continental Crises of the Jurassic Prof. Sha Jingeng, Nanjing Institute of Geology and Palaeontology, Chinese Academy of Sciences
No. 649	Diamonds and Recycled Mantle Prof. Yang Jingsui, Institute of Geology, Chinese Academy of Geological Sciences
No. 661	The Critical Zone in Karst Systems Prof. Jiang Zhongcheng, Institute of Karst Geology, Chinese Academy of Geological Sciences
No. 662	Orogenic architecture and crustal growth from accretion to collision: examples from the Central Asian Orogenic Belt and Tethyan Orogen Prof. Wang Tao, Institute of Geology, Chinese Academy of Geological Sciences
No. 663	Impact, mechanism, monitoring of land subsidence in coastal cities Prof. Yan Xuexin, Shanghai Institute of Geological Survey
No. 665	Land resource evolution mechanism and its sustainable use in global black soil critical zone Prof. Wang Daming, Shenyang Center of China Geological Survey

II. 6 IGCP Projects with Project Co-Leaders from China:

No. 608	Asia-Pacific Cretaceous Ecosystems Prof. Wan Xiaoqiao, China University of Geosciences (Beijing)
No. 609	Cretaceous Sea-Level Changes Prof. Hu Xiumian, Nanjing University
No. 641	Deformation and fissuring caused by exploitation of subsurface fluids Prof. Ye Shujun, Nanjing University
No. 652	Reading geologic time in Paleozoic sedimentary rocks: the need for an integrated stratigraphy Prof. Dai Shuang from Lanzhou University
No. 653	The onset of the Great Ordovician Biodiversification Event Prof. Zhang Yuandong, Nanjing Institute of Geology and Palaeontology, Chinese Academy of Sciences
No. 668	Equatorial Gondwanan history and Early Palaeozoic Evolutionary Dynamics Prof. Peng Shanchi, Nanjing Institute of Geology and Palaeontology, Chinese Academy of Sciences

III. Projects with Active Working Groups:

In 2018, the Chinese geoscientists have participated in the following 12 IGCP projects: Nos. 630, 632, 649, 661, 662, 663, 665, 608, 618, 641, 652 and 653.

results of the Chinese IGCP projects, recommended IGCP proposals and introduced the working plan of 2018. The IGCP projects with Chinese scientist as leaders and co-leaders were highly rated by the IGCP Scientific Board.

Part Four: Activities of the National Committee**1. Participated in the Open Session of the IGCP Council**

On Feb. 22nd, 2018, Prof. Wu Zhenhan, the Secretary General of Chinese

National Committee for IGCP, attended the Open Session of the IGCP Council. In his presentation, Prof. Wu reported the

2. Chinese Female Scientist Appointed IGCP Council Member

Academician Zhou Weijian from Institute of Earth Environment, Chinese Academy of Sciences, was appointed as new member to the IGCP Council. Her tenure is 2018-2021, and she is in charge of Global Change.

3. Actively recommending IGCP project proposals

1) Four IGCP projects with Chinese geoscientists as the Project leader or Co-leader being newly approved in 2018: With the support of the China National Committee for IGCP, four new IGCP projects with Chinese geoscientists as the Project Leader or Co-Leader got approval of the IGCP Scientific Board:

IGCP-662: Orogenic architecture and crustal growth from accretion to collision: examples from the Central Asian Orogenic Belt and Tethyan Orogen led by Prof. Wang Tao from Institute of Geology, Chinese Academy of Geological Sciences (Leader);

IGCP-663: Impact, mechanism, monitoring of land subsidence in coastal cities by Prof. Yan Xuexin from Shanghai Institute of Geological Survey (Leader);

IGCP-665: Land resource evolution mechanism and its sustainable use in global black soil critical zone by Prof. Wang Daming from Shenyang Center, China Geological Survey (Leader);

IGCP-668: Equatorial Gondwanan history and Early Palaeozoic Evolutionary Dynamics from Prof. Peng Shanchi from Nanjing Institute of Geology and Palaeontology, Chinese Academy of Sciences (Co-Leader);

2) Recommending IGCP proposals to the IGCP Scientific Board: In 2018, the China National Committee for IGCP recommended two IGCP proposals initiated by Chinese geoscientists, including:

IGCP proposal “Supergene Fluid Ore-forming Process of Sandstone-type Uranium Deposits” initiated by Prof. Jin Ruoshi from Tianjin Center, China Geological Survey;

IGCP proposal “Linkage of Cretaceous solid earth dynamics, greenhouse climate, and response of ecosystems on lands and in the oceans in Asia” initiated by Prof. Li Gang from Nanjing Institute of Geology and Palaeontology, Chinese Academy of Sciences;

4. Supporting China's participation in the activities of Global Geoparks Network (GGN)

The China National Committee for IGCP assisted China National Geoparks Network in accomplishing the following major work:

At the invitation of UNESCO, China sent several Chinese

experts to conduct revalidation missions of Global Geoparks overseas;

At the invitation of UNESCO, Prof. Jin Xiaochi and Prof. Zheng Yuanyuan attended the International Intensive Course on Geoparks 2017. As the trainees of the Course, they introduced current status of Global Geoparks in China and China's good practice in Geoparks development;

5. Convening of the Symposium on Chinese IGCP Projects and 2018 Annual Meeting of the China National Committee for IGCP

The Symposium on Chinese IGCP Projects and 2018 Annual Meeting of the China National Committee for IGCP was held in China University of Geosciences(Wu Han) on December 11th-12th. Unlike in the previous years, this meeting focused on the scientific breakthroughs and achievements of the IGCP projects instead of the general report on working progress. Meanwhile, being held for the first time at a college, the meeting attracted a hundred more students and scientists. The meeting invited Mr. Qiao Zhengshun from China National Committee for UNESCO and Prof. Cheng Qiuming, the President of International Union of Geological Sciences (IUGS) and representatives from the UNESCO International Research Center On Karst and UNESCO International Center on Global-Scale Geochemistry. On Dec. 11th, 16 presentations as follows were given by 12 Chinese geologists serving as Leaders or Co-leaders of the ongoing IGCP projects, 2 representatives from UNESCO Category II centers and 2 invited guests.

This year also marks the 110 anniversary of Mr. Yang Zunyi, a well-established paleontologist and educationalist, who was also the first Chinese participant and leader in IGCP projects. His pioneering activity leads his team to widely participate in IGCP projects. On Dec. 12th, a special symposium regarding Permian to Triassic Paleontology was held.

By doing the above, the meeting created an effective communication platform for the presenters and the audience, expanded the influence of IGCP and encouraged more Chinese Scientists to participate in IGCP in the future.

In addition, the meeting also invited applicants of new IGCP projects to report on their applications, including:

No.	Reporters	Presentations
1	Prof. Wang Xueqiu	Mapping Chemical Earth: Progress and Challenge
2	Prof. Bai Bing	Global Karst Systems: Progress and Challenge
3	Prof. Chen Zhongqiang	IGCP 630 - Permian-Triassic Climatic and Environmental Extremes and biotic responses
4	Dr. Wang Yaqiong	IGCP 632 - Continental Crises of the Jurassic: Major Extinction events and Environmental Changes within Lacustrine Ecosystems
5	Prof. Yang Jingsui	IGCP 649 - Diamonds and Recycled Mantle
6	Prof. David Kemp	Global perspectives on the Early Toarcian Oceanic Anoxic Event
7	Prof. Jiang Zhongcheng	IGCP 661 - The Critical Zone in Karst Systems
8	Prof. Wang Tao	IGCP 662 - Orogenic architecture and crustal growth from accretion to collision: examples from the Central Asian Orogenic Belt and Tethyan orogen
9	Prof. Tim Kusky	An Overview of the Tectonics of Turkey: Implications for Tectonic Escape Processes
10	Prof. Yan Xuexin	IGCP663 - Impact, Mechanism, Monitoring of Land Subsidence in Coastal cities
11	Prof. Wang Daming	IGCP665 - Land Resources Evolution Mechanism and Sustainable Use in Global Black Soil Critical Zone
12	Prof. Li Guobiao	IGCP 608 - Asia-Pacific Cretaceous Ecosystems
13	Prof. Dai Shuang	IGCP 652 - Reading Geologic Time in Paleozoic Sedimentary Rocks
14	Prof. Zhang Yuandong	IGCP 653 - The onset of the Great Ordovician Biodiversity Event
15	Prof. Ye Shujun	IGCP 641 - Deformation and fissuring caused by exploitation of subsurface fluids
16	Prof. Peng Shanchi	IGCP 668 - Equatorial Gondwanan history and Early Palaeozoic Evolutionary Dynamics

No.	Applicants	Projects
1	Prof. Jin Ruoshi	Supergene Fluid Ore-forming Process of Sandstone-type Uranium Deposits
2	Prof. Li Gang	Linkage of Cretaceous solid earth dynamics, greenhouse climate, and response of ecosystems on lands and in the oceans in Asia

At the business meeting which was attended only by the Committee Members and invited delegates, the submitted annual reports of the National Working Groups were reviewed, and the major tasks for 2019 were proposed and discussed as the following:

1. To get more support to IGCP from relevant state departments and enterprises

The committee will prepare persuasive materials regarding the benefits brought

by IGCP participation for decades, and try to lobby the relevant state departments and enterprises for more support to IGCP.

2. To step up cooperation with Natural Science Foundation of China

The committee will work closely with Natural Science Foundation of

China (NSFC), and try to get more support from the International Cooperation Department and Geoscience Department of NSFC to the application of major international cooperation projects by Chinese scientists who are participating IGCP projects as leaders.

3. To enforce the top-level design for Chinese geologists participation in IGCP projects

The Committee will closely follow the development of International Geoscience and Geoparks Programme (IGGP). As Chinese geologists are always interested in IGCP projects related to paleontology, the Committee will make more efforts to encourage Chinese geologists to initiate or participate in IGCP projects in geo-hazard, energy resources and other new research fields.

4. To propose and integrate big science programe

Centering on the Chinese national scientific and technological innovation strategies and “One Belt, One Road” Initiative, the Committee will propose IGCP projects and try to integrate with

the special research projects initiated by Natural Science Foundation of China.

5. To build a communication and exchange platform for international geoscience cooperation

The Committee will hold the annual meeting as an international academic exchange platform, which consists of both working meeting of China National Committee for IGCP and symposium on IGCP projects. In addition to the regular participants including the leaders or co-leaders of IGCP projects, invited guests and committee members, experts of relevant research fields will also be invited. The Committee will encourage more Chinese geoscientists and students who are interested in IGCP projects to participate in the symposium.

6. To further increase the visibility and influence of IGCP in the Chinese geoscience community

The Committee will further promote the “IGCP” brand among the Chinese geologists and encourage more Chinese geologists to initiate and participate in IGCP projects, using IGCP as an international platform where Chinese geologists can realize more communication and cooperation with the international geoscience community. The Committee will fully make use of media reports and the website to increase the publicity of IGCP among Chinese geoscientists.

About the first author (also corresponding author)



HOU Zengqian, male, was born in 1961. He obtained his Ph.D. degree from China University of Geosciences. He served as Assistant President, Deputy Director and Director of institutes at Chinese Academy of Geological Sciences (CAGS), and is serving as vice President of National Natural Science Foundation of China. He is interested in the study on the theory of metal mineralization and resource exploration technology. E-mail: houzengqian@126.com.