

2019 ANNUAL REPORT

CHINA NATIONAL COMMITTEE FOR IGCP

Part One: Chairperson, Vice Chairpersons and Secretary General of the Committee

- Chairman: Prof. Hou Zengqian
Vice President
National Natural Science Foundation of China
83 Shuangqing Road, Haidian District
Beijing 100085, China
Tel: +86-(10)-6899-0617
Fax: +86-(10)-6899-7803
E-mail: houzengqian@126.com
- Vice Chairpersons: Mr. Wang Qian
Deputy Director-General
Department of Science, Technology and International Cooperation
Ministry of Natural Resources, P. R. China
No. 64 Funei Street, Beijing 100812, China
Tel: +86-(10)-6655-8405
Fax: +86-(10)-6612-7247
E-mail: gongjingwen_mlr@163.com
- Mr. Chen Linhao
Deputy Director-General
Department of International Cooperation
Ministry of Science and Technology, P.R. China
Tel: +86-(10)-5888-1385
Fax: +86-(10)-5888-1324
E-mail: chenlh@most.cn
- Secretary-General: Prof. Wu Zhenhan
Vice President
Chinese Academy of Geological Sciences
26 Baiwanzhuang Road, Beijing 100037, China
Tel: +86-(10)-6899-9626
Fax: +86-(10)-6831-0894
E-mail: zhenhanwu@cags.ac.cn

Secretariat:

Secretariat

China National Committee for IGCP

Division of International Cooperation

Chinese Academy of Geological Sciences

26 Baiwanzhuang Road, Beijing 100037, China

Tel: +86-(10)-6831-0893 or +86-(10)-6899-9619

Fax: +86-(10)-6831-0894

E-mail: dic@cags.ac.cn

Http: www.cags.ac.cn/igcp-china

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. Nine IGCP Projects with Project Leaders from China:

No. 630	Permian-Triassic Climatic and Environmental Extremes and Biotic Response Prof. Chen Zhong Qiang, China University of Geosciences (wuhan)
No. 632	Continental Crises of the Jurassic Prof. Sha Jingeng, Nanjing Institute of Geology and Paleontology, 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
No.675	Sandstone - Type Uranium Deposits Prof. Jin Ruoshi, Tianjin Center, China Geological Survey
No.679	Cretaceous Earth Dynamics and Climate in Asia Prof. Li Gang, Nanjing Institute of Geology and Paleontology, Chinese Academy of Sciences

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

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 Paleontology, Chinese Academy of Sciences
No.668	Equatorial Gondwanan history and Early Palaeozoic Evolutionary Dynamics Prof. Peng Shanchi, Nanjing Institute of Geology and Paleontology, Chinese Academy of Sciences

III. Projects with Active Working Groups:

In 2019, the Chinese geoscientists have participated in the following 13 IGCP projects: Nos., 630, 632, 641, 649, 652, 653, 661,662,663,665, 668, 675 and 679.

Part Four: Activities of the National Committee

1. Keep close communications with the International Geoscience Programme

(1) Participate in the Open Session of the IGCP Council

On February 21, 2019, the Open Session of the IGCP Council was held at the

UNESCO headquarters in Paris. Entrusted by the China National Committee, Mr. Yi Zhijun, First Secretary of the Permanent Delegation of the China National Commission for UNESCO, reported the progress of the IGCP projects led or co-led by Chinese geoscientists, recommended IGCP proposals and introduced the working plan of 2019.

(2) Meet with the IGCP officials and exchange ideas for future cooperation

On February 27, 2019, Prof. Hou Zenqiang and Prof. Wu Zhenhan, President and Secretary General of the China National Committee for IGCP, met with Dr. Özlem Adiyaman in Beijing and the two sides exchanged ideas on enhancing cooperation between China and UNESCO on IGCP projects and earth science advancement.



(3) Discuss about increased financial contributions to IGCP

The China National Committee for IGCP has been in close contact with the IGCP Secretariat about increasing China's financial contributions to IGCP.

2. Make efforts to increase China's financial contributions to IGCP

The China National Committee for IGCP made great efforts for more direct contributions to IGCP. The Committee reported to and coordinated with several Chinese governmental agencies, including the China National Commission for

UNESCO, Ministry of Natural Resources of China and Ministry of Science and Technology of China etc., about increasing the direct contributions to IGCP.

Since 2011, China's annual membership fees for UNESCO have increased by a large margin from the previous 7.9% to the current 15%, with a great increase of over 10 million USD per year. The fact that the almost doubled increase in the membership fees has demonstrated China's commitment to UNESCO and great support for UNESCO activities. The Committee believes that more funds will be available for the UNESCO natural science sector, including our IGCP programme. And also due to the big increase of membership fees to UNESCO as a whole, currently it seems inappropriate to apply to the Chinese government for increased contributions to a specific UNESCO programme. The Committee sincerely hopes that UNESCO could allocate more funds to support IGCP internally.

3. Complete the IGCP Evaluation Interview

Upon the request of the IGCP external evaluation team, the China National Committee for IGCP completed the evaluation interview and provided extensive extensive and positive comments on the relevance of IGCP, programme progresses, outcomes, impacts and sustainability of IGCP projects.

Considering that developing an advanced understanding of the Earth's fundamental processes and resources is essential to reaching UN sustainable development goals, and UNESCO is the only United Nations organization with a mandate to support research and capacity in Earth Sciences, the China National Committee for IGCP suggests that UNESCO could consider to make a sensible increase in its annual financial allocations to IGCP projects so that more competitive IGCP project proposals could be evaluated and accepted to support global geoscience research efforts so as to provide geoscience solutions for the development and progress of human society, for instance, energy and mineral resources supply, water supply, geohazards mitigation, geoheritage and environment protection etc.

4. Actively recommend IGCP project proposals

(1) Two IGCP projects with Chinese geoscientists as the Project leader newly approved in 2019

With the support of the China National Committee for IGCP, two new IGCP project

with Chinese geoscientists as the Project Leader got approval of the IGCP Council:

- ◆ IGCP-675: Sandstone - Type Uranium Deposits led by Prof. Jin Ruoshi, Tianjin Center, China Geological Survey (Leader)
- ◆ IGCP-679: Cretaceous Earth Dynamics and Climate in Asia led by Prof. Li Gang, Nanjing Institute of Geology and Palaeontology, Chinese Academy of Sciences (Leader)

(2) Recommending IGCP proposals to the IGCP Scientific Board: In 2019, the China National Committee for IGCP recommended three IGCP proposals initiated by Chinese geoscientists, including:

- ◆ IGCP proposal “HP-UHP metamorphism and geochemical cycles in subduction zone”, proposed by Prof. Lifei Zhang from School of Earth and Space Sciences, Peking University
- ◆ IGCP proposal “Western Tethys meets Eastern Tethys – geodynamical, paleoceanographical and paleobiogeographical event”, proposed by Dr. Huang Hao, Institute of Geology, Chinese Academy of Geological Sciences
- ◆ IGCP proposal “Origin, Distribution, and Bio-Geo-Chemistry of Arsenic in the Altiplano-Puna Plateau, Central Andes, South America”, proposed by Dr. Chen Jitao, Nanjing Institute of Geology and Palaeontology, Chinese Academy of Sciences

5. 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:

1. At the invitation of UNESCO, China sent several Chinese experts to conduct revalidation missions of Global Geoparks overseas;
2. At the invitation of UNESCO, Prof. Jin Xiaochi and Prof. Zheng Yuanyuan attended the International Intensive Course on Geoparks 2019. As the trainees of the Course, they introduced current status of Global Geoparks in China and China’s good practice in Geoparks development;

6. Convening of the Symposium on Chinese IGCP Projects and 2019 Annual Meeting of the China National Committee for IGCP

The Symposium on Chinese IGCP Projects and 2019 Annual Meeting of the China National Committee for IGCP was held in Tianjin, China on December 25-26, 2019. More than 50 delegates participated in the meeting, including the members of the China National Committee for IGCP, representatives of the IGCP

working groups, UNESCO Category II Centers, new IGCP projects applications etc. Mr. Zhou Jiagui, Deputy Secretary General of the China National Commission for UNESCO was invited to attend the meeting.



No.	Reporters	Presentations
1	Prof. Wang Xueqiu	Mapping Chemical Earth: Progress and Challenge by the International Center on Global-scale Geochemistry
2	Prof. Cao Jianhua	Global Karst Systems: Progress and Challenge by the International Research Center on Karst Geology
3	Prof. Chen Zhongqiang	IGCP 630 - Permian-Triassic Climatic and Environmental Extremes and biotic responses
4	Prof. Wang Yaqiong	IGCP 632 - Permian-Triassic Climatic and Environmental Extremes and biotic responses
5	Prof. Yang Jingsui	IGCP 649 - Diamonds and Recycled Mantle
6	Prof. Jiang Zhongcheng	IGCP 661 - The Critical Zone in Karst Systems
7	Prof. Wang Tao	IGCP 662-Orogenic architecture and crustal growth from accretion to collision: examples from the Central Asian Orogenic Belt and Tethyan orogen
8	Prof. Yan Xuexin	IGCP663-Impact, Mechanism, Monitoring of Land

		Subsidence in Coastal cities
9	Prof. Wang Da Ming	IGCP665-Land Resources Evolution Mechanism and Sustainable Use in Global Black Soil Critical Zone
10	Prof. Jin Ruoshi	IGCP-675 - Sandstone - Type Uranium Deposits
11	Prof. Li Gang	IGCP-679: Cretaceous Earth Dynamics and Climate in Asia
12	Prof. Dai Shuang	IGCP 652 - Reading Geologic Time in Paleozoic Sedimentary Rocks
13	Prof. Zhang Yuandong	IGCP 653 - The onset of the Great Ordovician Biodiversity Event
14	Prof. Ye Shujun	IGCP 641 - Deformation and fissuring caused by exploitation of subsurface fluids
15	Prof. Peng Shanchi	IGCP 668-Equatorial Gondwanan history and Early Palaeozoic Evolutionary Dynamics





IGCP 679 白垩纪地球动力学与亚洲古气候国际学术研讨会

THE FIRST INTERNATIONAL SYMPOSIUM OF
THE INTERNATIONAL GEOSCIENCE PROGRAMME PROJECT 679

October 11-17, 2019
Qingdao, Shandong, China





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

No.	Applicants	Projects
1	Prof. Zhang Lifei	HP-UHP metamorphism and geochemical cycles in subduction zone
2	Prof. Chen Jitao	Origin, Distribution, and Bio-Geo-Chemistry of Arsenic in the Altiplano-Puna Plateau, Central Andes, South America

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 2020 were proposed and discussed as the following:

1. To set up a working mechanism for the Committee

The China National Committee will determine a fixed date on the organization of the annual working meeting of the China National Committee for IGCP so that the members of the Committee could make preparations for the meeting well in advance.

2. To organize IGCP academic conferences and build a new exchange

platform

The China National Committee will step up efforts to organize IGCP conferences with the focus on academic exchanges. It is planned that the IGCP leaders and leading geoscientists from both China and overseas will be invited to attend the annual IGCP meeting to make exchanges on the research progress of IGCP and explore the frontier developments of global geosciences. More young geoscientists, including students, will be encouraged to participate in the annual IGCP meeting.

3. To propose and integrate big science program

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.

4. To encourage Chinese geologists participation in IGCP projects

The Committee will closely follow the development of International Geoscience and Geoparks Programme (IGGP). The Committee will recommend more leading Chinese geoscientists to participate in IGCP projects and serve in the IGCP administrative bodies.

5. To recommend more high-quality IGCP projects

Centering on the scientific themes of the IGCP projects, the China National Committee for IGCP will encourage more top Chinese geoscientists to apply for IGCP projects and recommend more high-quality projects.

6. To continue the support to the UNESCO Category II Centers

The China National Committee for IGCP will continue its strong support to the UNESCO Category II Centers - the International Research Center on Karst and the International Center on Global-scale Geochemistry in terms of scientific research and personnel training.