

**Call for Participants of 2020 IRCK
Training Course**

**INTERNATIONAL TRAINING COURSE
ON
KARST RESOURCES, ENVIRONMENTAL EFFECTS
AND ECOLOGICAL INDUSTRIES**

CIRCULAR I

Organized by
*International Research Center on Karst (IRCK) under the
auspices of UNESCO*

Supported by
*Institute of Karst Geology (IKG), Chinese Academy
of Geological Sciences (CAGS)
China Geological Survey
Ministry of Natural Resources, P.R.China
IGCP 661*

October ~ November, 2020

INTERNATIONAL TRAINING COURSE ON THE BELT AND ROAD INITIATIVE AND KARST LANDSCAPE

Background and aims:

Approved by the 34th General Conference of UNESCO in October 2007, an International Research Center on Karst (IRCK) under the auspices of UNESCO (Category II) was established in Guilin, China, the Agreement between the Chinese government and UNESCO concerning the Establishment and Operation of the IRCK was signed in Paris on February 11, 2008 and the Center was officially inaugurated in December 2008. On May 12, 2016, the Renewed Agreement for the Center was signed between Chinese government and UNESCO, indicating the formal Phase-II operation of IRCK.

IRCK is based at the Institute of Karst Geology, Chinese Academy of Geological Sciences (CAGS), located at No. 50 Qixing Road, Guilin, Guangxi 541004, P. R. China. Its objectives and functions are, to provide advisory activities, technical information and training as a basis to develop and implement new integrated methods of desertification rehabilitation and ecological restoration, undertake international technical consultation and organize international workshops and symposia on special subjects, scientific field investigations, lecture tours and so on. It successfully organized ten international training courses on karst in the past ten years in Guilin Nanning, Chongqing, Kunming, Xiangxi in China, which were attended by 283 trainees from 38 countries.

With the support of the Institute of Karst Geology, CAGS, and the IGCP 661, IRCK will organize **the International Training Course on Karst Resources, Environmental Effects and Ecological Industries** to be scheduled on 26-30th October and 9-13th November, 2020, with the aim of enhancing research cooperation and academic exchange between China and other countries, and sharing successful experience in karst scientific research with colleagues overseas. IRCK warmly welcome geologists, hydrologists and related administrators and scientists from all over the world, especially the developing countries to participate in this upcoming training course.

PROGRAMME OUTLINE

Overview:

The training course will be held online by the software as VooV Meeting. As the time lag, the training has two phases.

1st phase: October 26-30, mainly for trainees from Europe, Africa and Asia.

2nd phase: November 9-13, mainly for trainees from America, Oceania and Asia.

Working language: English

Initial course timetable:

1st phase

Date	Time	Lecturer	Topic
Oct. 26	15:00-16:30	Chaiporn Siripornpibul	Karst Features in Satun UNESCO Global Geopark & Roles of Sandstone Caves in Thailand
	16:30-18:00	Saša Milanović	Karst water development and protection by cooperation with water supplier companies in Serbia
Oct. 27	15:00-16:30	Liza Socorro J. Manzano	Formation, Evolution, Development and Protection of the Bohol Chocolate Hills, Philippines
	16:30-18:00	Li Xiankun	Sustainable utilization of karst special plant resources and vegetation restoration in Rocky Desertification Area
Oct. 28	15:00-16:30	Zoran Stevanović	To be decided
	17:00-18:30	Chris Groves	Mammoth Cave
Oct. 29	15:00-16:30	Cheng Hai	Speleothem and Climate Change
	16:30-18:00	Andrzej Tyc	The nature and conditions of hypogene karst – on the example of Central Europe
Oct. 30	15:00-18:00	Assessment: Trainees' presentation	

2nd phase

Date	Time	Lecturer	Topic
Nov. 9	8:30-9:45	Yuan Daoxian	To be decided
	9:45-11:00	Chris Groves	Mammoth Cave
Nov. 10	8:30-9:45	Jiang Zhongcheng	Ecological industries development based on karst geological features
	9:45-11:00	Zheng Yuanyuan	To be decided
Nov. 11	8:30-9:45	Cheng Hai	Speleothem and Climate Change
	9:45-10:30	Cao Jianhua	Comprehensive treatment on karst rocky desertification
	10:30-11:15	Zhang Yuanhai	Technology and Methodology of Tiankeng Survey
Nov. 12	8:30-9:45	Andrzej Tyc	The nature and conditions of hypogene karst – on the example of Southern Peru
	9:45-11:00	Chaiporn Siripornpibul	Karst Features in Satun UNESCO Global Geopark & Roles of Sandstone Caves in Thailand
Nov. 13	8:30-11:00	Assessment: Trainees' presentation	

* The time is Beijing time (GMT+8). Parts of this course timetable probably change, and IRCK will send the final version in the middle of October. A test for checking software of each

participant uses it well will be organized 1 or 2 days before the start of courses.

Lecturers:

Please find the attached at the end of this circular to know parts of lecturers.

Trainees:

IRCK plans to enroll about 25 trainees for each phase. Once the applicants exceeded above the upper limit of people, we will choose the more appropriate applicants to join the training course based on your application and recommendation. Also you could attend to watch the lecture you are interested in of the other phase.

Assessment:

At the end of each phase (Oct. 30 and Nov. 12), there will be an assessment for trainees. After the trainee finish his/her presentation about karst and this training course, IRCK will issue a certificate for graduation of the training. The excellent trainees signing is based on this assessment evaluated by lecturers.

Application:

Please find the application form attached to this circular, then fill in all the blanks for the information we required and send to the designated email address (lightzhong@karst.ac.cn) before **Oct. 8, 2020**. The name of this email is appreciated as “Application Form – Training Course – Name – Nationality”. Any further information will be sent to you via email.

Contact information:

For further information please contact:

bbai@karst.ac.cn

Attachments:

- I. Application form
- II. Guide of VooV Meeting
- III. Introduction of lecturers

International training course on Karst Resources, Environmental Effects and Ecological Industries
International Research Center on Karst (IRCK), UNESCO
Institute of Karst Geology (IKG), CAGS
50 Qixing Road, 541004 Guilin, Guangxi, P. R. China
Tel: +86-773-7796561
Fax: +86-773-5813708

Websites: http://en.irck.org.cn/yrzx_en/index.html

Attachment I

Email it **before October 9th, 2020** to:

Mr. Bai Bing

bbai@karst.ac.cn

International Research Center on Karst, UNESCO

Institute of Karst Geology, CAGS

50 Qixing Road, 541004 Guilin,

Guangxi, P. R. China

Attach a
recent
passport
photograph

APPLICATION FORM

for IRCK 2020 International Training Course

1. Last name:
2. First name:
3. Full name (as printed in your passport):
4. Date of birth:
5. Place of birth:
6. Gender:
7. Present nationality:
8. Nationality at birth:
9. Mailing address (Post code should be marked):
10. Fixed telephone number and mobile phone number:
11. Fax number:
12. Email or homepage:
13. Institution (University, Ministry or other):
14. Official position:
15. Prefer 1st Phase or 2nd Phase:

16. Education (omit primary schooling):

Institution	Location	Attended from...till...	Degree or qualification earned

17. Number of publications (submit a list of your papers):

18. Languages:

Languages commanded (mother tongue first)	Fluently used language(s)	Language(s) used only for reading

19. What is your main field of research interest?

20 Submit a short letter from your head of department (or president of university, dean of faculty or corresponding) stating to what extent your training can be used at your department, university, laboratory after your return home.

21. Three references:

Full name

Contact address

(1)

(2)

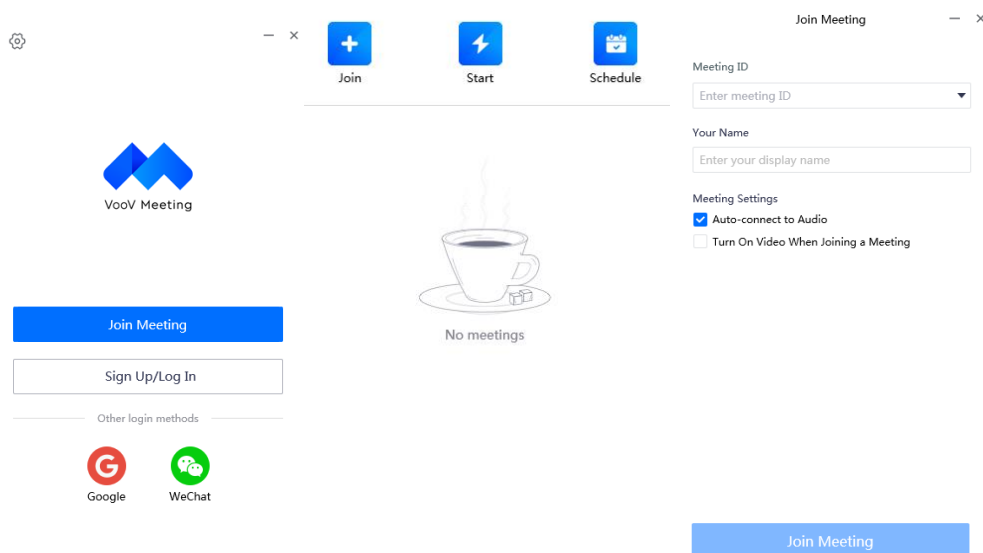
(3)

22. Are you applying simultaneously for another fellowship or position?

Attachment II

Guide of VooV Meeting

1. Download VooV Meeting at <https://voovmeeting.com>, or search VooV Meeting APP on the mobile phone.
2. Open VooV Meeting after installation. You could join meeting directly, or sign up/log in with your phone number, also login by Google or WeChat account.
3. Click Join button, and input the meeting ID, which will be send to you 1-2 days before the meeting, then you could watch the training course.



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Name: Chaiporn **Family Name:** Siripornpibul

Nationality: Thai

Email: alekchaiporn@gmail.com

Institution: Department of Mineral Resources, Thailand

Mailing Address: 75/10 Rama Road, Ratchatewi, Bangkok, Thailand.

Work experiences

2019 - Present: Member of The National Committee for Cave Management Policy, and Evaluator of Geopark

2015 – Present: Expert on International Cooperation, and Cave & Karst study, DMR.

2014– 2015: Inspector General, Ministry of Natural Resources and Environment, Thailand.

1978-2002: Working for AIT, PWD, DGR, DWR in the field of Groundwater and Water Resources.

Technical Papers

More than 50 reports and papers of works and research projects in the field of Groundwater Resources and Cave & Karst projects. And more than 100 pieces of writings in Facebook about Water Resources, and Cave and Karst issues.



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Name: Hai **Family Name:** Cheng

Nationality: American

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Institution: Xi'an Jiaotong University, China

Mailing Address: No.28, Xianning West Road, Xi'an, Shaanxi, 710049, P.R. China

Hai Cheng has over the past three decades been at the leading edge in the technical developments of U-series to address many fundamental questions in paleoclimatology, paleoceanography, and global climate change research. He is also one of world-leading experts on paleoclimate studies of speleothem worldwide and played an important role in the reconstruction of the climate history in numerous climate domains using cave records from East Asian, Indian, central Asia, North America, Amazon Basin, etc. The related researches have produced absolute chronological benchmarks that are critical to correlate regional climate variations in the context of global climate change on a wide range of timescales. The broad international significance of his contributions is attested by ~450 publications, including ~30 Science and Nature, (H-index=94 and citations>50000, Google Scholar). Moreover, he is one of “Highly Cited Researchers” (2014-2019), Thomson Reuters/Clarivate Analytics) and his global rank by citation is currently 16th in geosciences (Web of Science). Hai Cheng is AGU fellow, Geochemical Fellow of Geochemical Society and European Association of Geochemistry, and AGU Emiliani Lecturer (2019).



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Name: Liza Socorro Juanico Manzano

Nationality: Philippines

Email: lizajmanzano@yahoo.com

Institution: Geohazard and Engineering Geology Section, Lands Geological survey Division, Mines and Geosciences Bureau, Philippines

Mailing Address: North Avenue, Diliman, Quezon City, Philippines 1128

I am the Chief of the Geohazard and Engineering Geology. I obtained my Bachelor of Science in Geology Degree from the University of the Philippines, Diliman, and holds a Masters Degree in Environmental Management. I am directly involved in the National Geohazard Assessment and Mapping Program of the Philippines on rain-induced landslide, flood and karst subsidence susceptibility hazards. I lead and supervise the team of geologists and GIS Specialists in the conduct of karst subsidence susceptibility hazard assessments and sinkhole inventory/mapping nationwide, as well as, Ground Penetrating Radar surveys. My team has pioneered in establishing the methodologies for karst subsidence susceptibility hazard assessment in the Philippines. I am the permanent representative of MGB to the Technical Working Group for the Prevention and Mitigation Cluster and Pre-Disaster Risk Assessment Core Group of the National Disaster Risk Reduction and Management Council, and the alternate representative of the MGB Director to the National Cave Committee. I am also a member of the Technical Review Panel of the Philippines Council on Industry, Energy and Emerging Technology Research and Development (DOST-PCIEERD).



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Name: Xiankun **Family Name:** Li

Nationality: China

Email: xiankunli@163.com

Institution: Guangxi Institute of Botany, Chinese Academy of Sciences

Mailing Address: Yanshan, Guilin, Guangxi, China 541006

Direction: Forest Ecology, Biodiversity Conservation, Vegetation Ecology, Restoration Ecology.

Achievements: Prof. Li Xiankun focuses his major research activities on vegetation ecology and restoration ecology. Directed and managed the construction of the 15-ha Nonggang Karst Seasonal Rainforest. Conducted studies on the dynamic ecology in tropical and subtropical forest, and applied relevant research achievements to the restoration of degraded vegetations in karst area. Determined the diversity measurements of karst vegetations in Guangxi. Vegetation restoration in rocky desertification area has been carried out successfully by using plant diversity.

So far, he has published more than 100 research papers both home and abroad. He has presided over or participated in over tens of research projects. He has won seven provincial and ministerial science and technology progress awards. In 2010, awarded “Government Special Subsidy” by the State Council.



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Name: Daoxian **Family Name:** Yuan

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Institution: Institute of Karst Geology, Chinese Academy of Geological Sciences

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As the famous geologist and hydrogeologist, he was selected as the academician of Chinese Academy of Sciences in 1991. Now he is the director of Key Laboratory of Karst Dynamics, Ministry of Natural Resources, Guangxi Zhuang Autonomous Region, China, and the director of IRCK, also the distinguished professor of universities. For more than five decades, he got many national honors, the awards from International Union for Conservation of Nature, International Association of Hydrogeologists and many other international organizations. By the IGCP project, he communicated with scientists from the 1990s, and created Karst Dynamics. He is still doing S&T work though he is more than 80-year old, and got lots of creative contribution in geology. He analyzed the hydrogeological settings scientifically to direct the survey of Chinese hydrogeology, integrated the environmental sciences, geology and karst together and put forward the theory of karst environmental science. For different areas, the features, types and geo-hazards are clarified, and gives out the summary of their distribution, rules, prevention measures and solutions. His research is based on the theory of earth system science, from the global view, he declared the features and mechanism of Chinese karst.



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Name: Jianhua **Family Name:** Cao

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Institution: Institute of Karst Geology, Chinese Academy of Geological Sciences

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With the PhD degree of pedology, he worked in the Institute of Karst Geology, CAGS from 1987. Now, he is the researcher, doctoral supervisor and deputy executive director of IRCK, deputy chief engineer of IKG. As the leader of more than 40 projects, he got the achievements on karst carbon sink, karst ecology, water and soil resources. A stable international work team was established by his international cooperation project, like inter-government cooperation with Slovenia and Slovakia, 11 international training courses of IRCK. He is in charge of National Key Research and Development program of China “Rocky desertification evolution, integrated control technologies and demonstration in karst faulted basin area, Southwest China”, and for 5-year implementation, his project team did many demonstration of karst rocky desertification treatment, and formed several ecological industries, which improve the development of local citizens and made the karst environment in Southwest China better. Besides that, more than 100 academic papers were published by him, and 41 postgraduates were graduated by his cultivation. Xinhualian Science and Technology Award of Chinese Academy of Geological Sciences and other awards witnessed his achievement in karst sciences.



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Name: Saša **Family Name:** Milanović

Nationality: Serbia

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Institution: University of Belgrade

Mailing Address: 1 Studentski trg, 11000 Belgrade, Serbia

Over 20 years of practical experience as team leader in designing and implementation of research projects and studies, primarily in the field of: Water resources management and evaluation; Hydrogeological mapping; Design of tapping structures, boreholes and wells; GW protection; Mineral and thermal waters exploitation and protection. Investigation of karst aquifers; Speleological and cave diving investigations; Investigations for dam and reservoir construction, related to geology; Remediation works for reservoirs and dams; Environmental problems; Rehabilitation of collector well and other wells; Supervising of borehole and well drilling, pumping test execution, tracer tests organization; 3D modeling of karst conduits, Monitoring and database of ground water; constructor of hydrogeological field equipment as (borehole TV logging equipment, spring monitoring equipment etc.); Sustainable development of GW sources and environmentally safe groundwater extraction; Environmental impact assessment studies



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Name: Christopher Gordon **Family Name:** Groves

Nationality: American

Email: chris.groves@wku.edu

Institution: Western Kentucky University

Mailing Address: 1960 College Heights Avenue, Bowling Green, Ky, USA

Prof. Chris Groves, a tenured professor at West Kentucky University. He currently serves as a member of the Governing Board of the IRCK; and chair of IAH US National Committee. His major research areas include hydrogeology and karst environment. In particular, he has made great achievements in karst hydrogeological survey, dynamic monitoring, modeling, ecological environment in karst areas, and karst and global climate change research, having accumulated nearly 30 years of theoretical and practical experiences. Since 1992, he has been funded by the National Science Foundation (NSF) of the United States, as well as other relevant departments. He has led 29 international projects, and 22 projects funded by the West Kentucky University. During the period from 2006 to 2011, he led the implementation of China Environmental Health Project, a Sino-US cooperation project funded by USAID. This project has not only promoted the scientific and technological cooperation between China and the United States, but engaged experts and scholars from other countries in advancing the development of karstology in China.



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Name: Yuanhai **Family Name:** Zhang

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Institution: Institute of Karst Geology, Chinese Academy of Geological Sciences

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Zhang Yuanhai, senior engineer at the Institute of Karst Geology, the Chinese Academy of Geological Sciences, is an outstanding geologist in China Geological Survey. He currently serves as president of Asian Union of Speleology, secretary-general of the Committee of Speleology, the Geological Society of China, an assessment expert of UNESCO's Global Geoparks Network (GGN), and an expert of World Heritage Committee under the National Forestry and Grassland Administration of the Ministry of Natural Resources of the People's Republic of China.

In July 1988, he joined the IKG. Since then, he has been engaged in survey of karst landscapes, evaluation and development of geosites, application for world natural heritage/global geoparks, planning and design of visiting caves, cave environment monitoring, protection and research. So far, he has led and participated in more than 60 research projects, led the development and design of 35 karst caves, led the application of 10 national and global geoparks, and led the application of South China Karst natural heritage site.



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