

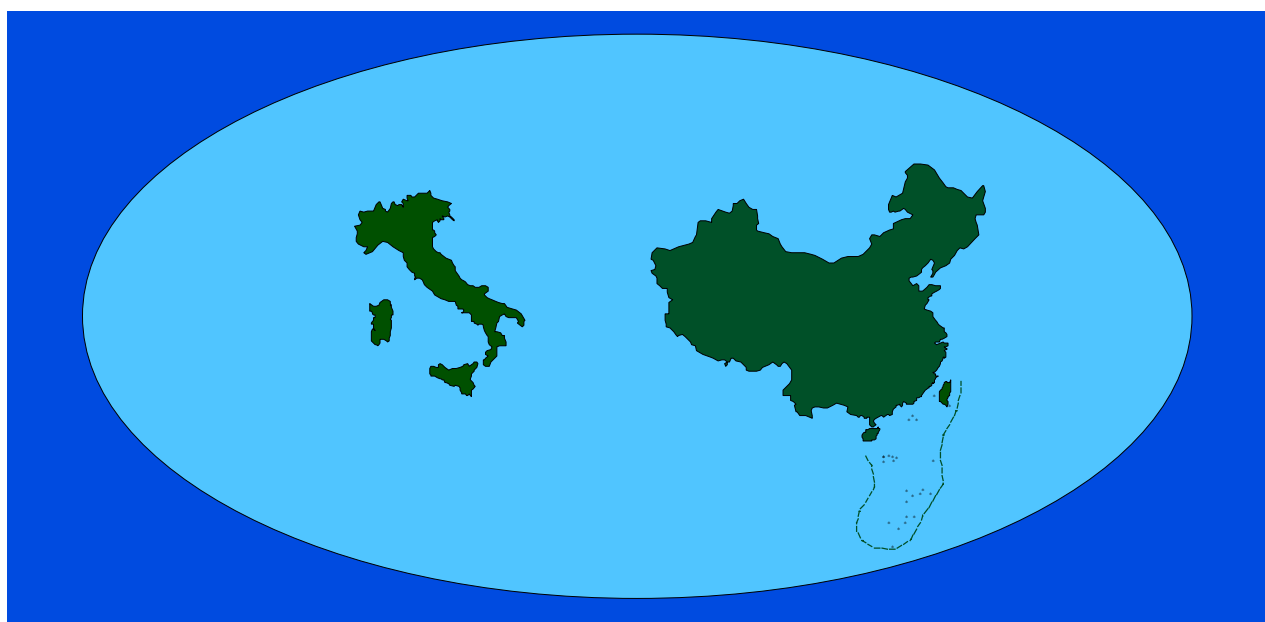
IN THE FRAME OF THE BILATERAL AGREEMENT ON S&T BETWEEN CHINA AND ITALY

## Sino-Italian Workshop on Karst and Caves of Guizhou

Guiyang, Guizhou, China

5-10 November 2003

### FIRST CIRCULAR



Ministry of Science and Technology  
Science and Technology Department of Guizhou Province

Ministry of Foreign Affairs  
Verona Civic Museum of Natural History



# **FIRST CIRCULAR**

Guizhou Province is located in South China, at a very heart of the Asia karst on the largest extent of almost unbroken limestone in the world. Within the China's greatest karst country, the limestone covers 130000 km<sup>2</sup> - about 73% of the provincial area. While only a small proportion of this has been thoroughly investigated, it is known that a large proportion of the limestone should support karst to some excellent degree. The province contains a massive limestone plateau, hundreds kilometers across, with normally 200 - 1500 m deep canyons cut its margin where many caves drain into the gorges. This gives rise to the finest and the most notable suite of surface and underground karst to be found in any small area in the world. It is just because of the vast areas still unexplored that opportunities for any new discoveries are considered greater than in perhaps any other province of this country or even other country.

## **Workshop Organization**

### **Sponsors**

Department of International Cooperation,  
Ministry of Science and Technology of People's Republic of China

Italian Embassy in People's Republic of China

Science and Technology Department of Guizhou Province,  
People's Republic of China

### **Organizers**

Science and Technology Department of Guizhou Province  
(People's Republic of China)

Science and Technology Office of Italian Embassy in Beijing  
(People's Republic of China)

Guizhou Normal University  
(People's Republic of China)

Verona Civic Museum of Natural History  
(Italian Republic)

## WORKSHOP TOPICS

1. Karst and caves measurement, theory and application, especially on essential background for karst and caves texture, combination, process and evolution model with computer program.
2. Biological study on Karst and cave animals. Biogeographical and faunistic study, mapping subterranean Biodiversity.
3. Resource and ecological effects of the karst developments, soil formation, land slopes and soil erosion, hydrological process and water distribution, natural disasters and prediction.
4. Karst environmental characteristics, texture and change, process of karst soil erosion and rock desertification and basic techniques for environmental reconstruction and rehabilitation.
5. Human-land relationship and eco-environmental management and sustainable development in karst areas with minority settlement distribution, optional ways or model for poverty alleviation.

### Prospects for International Cooperation on Guizhou Karst

**What 1** Natural Problem: Resource-environment Effects of Karst Development, Environment Fragility and Natural Property. Based on morphology, types and structure of karst, the mechanism and models of karst development under different climates will be studied. Based on rock and soil sample analysis, reasons resulting in karst eco-environment fragility, mechanic process and degraded rate will be researched. Biological aspect will be also analysed through the study of biodiversity and taxonomy of cave fauna.

**What 2** Social Problem: Resource-Environment Effects of Karst Traditional Agriculture, Environment Injury and Social Property: This part focus on the great affect of human on karst environment. scale, extent, intention and effect of the karst exploitation will be evaluated comprehensively. According to the karst environment system and its major controlling factors, a model will be set up to estimate environmental capacity of population for different karst eco-environments.

**Why** Theoretical Base: Environmental Capacity, Rational Land-Use, Rural Industrial Structure and Sustainable Development Model: According to the rural economic situation, agricultural industrial composition, productivity level, major reasons of rural poverty, and rich-making ways, and to research structure-function, evolutional processes and coordinated development of human-land relationship. A rational proportion of rural industrial structure will be set up according to the micro and minor eco-environments with this special human-land relationship.

**How 1** Priorities in Development of Technologies for karst Recultivation: It includes use of animals along with the growing of different species of trees: Such combination enable higher incomes on the unit of the used surface. For the recultivation of karst and hilly areas, it is necessary to apply technologies which enable the use of different domestic animal species (goats, sheep, pigs, donkeys, horses, geese, turkeys) and also wild ruminants, which are bred for economical purposes (red deer, fellow deer).

**How 2** Technique Innovation and Demonstration of Pasture and Farming for Karst Slopes with Rock Desertification: Development of cut-and-carry pasture system, with an emphasis on low cost and high yield of eco-economic benefit, include introduction and evaluation of appropriate grass species for soil erosion control and animal forage, yield versus fertilizer input cost/benefit analysis, sustainable over time, meeting seasonal deficits in forage availability. Improvement and management of pastures by animals will take as a tool.

# Workshop Program

## Workshop Program Stage I: Karst Theory and Application Issue

### November 5 (Wednesday)

**Venue:** Guiyang - Plaza Hotel

08:30-23.30 Arrival and Registration

### November 6 (Thursday)

**Venue:** Guiyang - Plaza Hotel Conference Hall

09:00-10:00 Opening Ceremony

10:00 Coffee Break and Photo Taking

10:30-11:30 Introductions to Guizhou and its karst and caves

11:30-12:30 Introductions to Italian karst researches in China

12:30-14:30 Lunch and free time

14:30-17:30 Papers lectures

18:30-20:30 Welcome banquet by Guizhou Science and Technology Department

### November 7 (Friday)

**Venue:** Guiyang - Plaza Hotel Conference Hall

09:00-10:00 Papers lectures

10:00-10:30 Coffee Break

10:30-12:30 Papers lectures

12:30-14:30 Lunch and free time

14:30-17:30 Papers lectures

18:30-20:00 Welcome banquet by Guizhou Normal University

20:00-22:30 Welcome party at Guiyang Plaza Hotel

## Workshop Program Stage II: Workshop Field-trip

### November 8 (Saturday)

**Venue:** Guiyang - Plaza Hotel

08:00-13:00 Guiyang to Guadou, Pingba (60 km). Visit to the Duobingdong Cave Systems.

13:00-14:00 Lunch

14:00-18:30 Visit to the cone karst, karst peneplain, gorges, etc.

### November 9 (Sunday)

08:30-18:30 Pingba to Zhijin, 120 km, visit to the Zhijin Cave, a show cave and its in-and-out drainage system, fenglin/fengcong karst, gorges, poljies, etc.

### November 10 (Monday)

08:30-18:30 Zhijin to Qiangxi, 130 km, visit to the karst and caves of the Honglin area, minority activity

18:30-20:30 Workshop closing ceremony and Farewell banquet by the Workshop Organizing Committee in Honglin

Note: From the 11th to 29th November the workshop delegates will do the project work, titled *Quality of the principal reservoirs of karst water and of the subterranean environment of Guizhou /South-West China* by SCIENTIFIC AND TECHNOLOGICAL COOPERATION AGREEMENT BETWEEN ITALY AND CHINA /2002-2006), in the Honglin area and in the area near the Xingren river and one other area in the neighbouring.

## **Presentation of Scientific Communications**

Communications will be presented by each delegate with oral papers or display posters in English only, both as a paper and as a lecture. The papers or posters must be received at the Workshop Organizing Committee, with Master Registration Form, no later than 15 October 2003.

Time for presentation of oral papers will be general 20 minutes, followed by 10 minutes for discussion. The lecture room will be equipped with slide projector □ overhead projector and multimedia projector. Slide trays and projector transparencies will be available.

Space is available in the lecture room for the presentation of papers as pictorial displays. The display surface for each poster (including pages of text, maps, diagrams, photographs and tables etc.) will be a panel on wall.

The papers and posters must be in the international standard form for publication and will be publicized in Chinese with English abstract afterwards.

## **Cost and Payment**

The cost will cover registration, meal, university accommodation, transportation and publication for the delegates and accompanying persons while they are in Guizhou. It will be possible to register and pay fees on arrival at Guiyang on Wednesday, 5 November 2003.

Delegate and Accompanying Adults: US\$ 40 per person per day for the 3 days main workshop  
US\$ 35 per person per day for the 7 days fieldtrip.

Children ( under 16 years old ): US\$ 35 per person per day for the 3 days main workshop  
US\$ 30 per person per day for the 7 days fieldtrip.

## **Host City, University and Hotel**

Guiyang City, just 15 km away from Guiyang Airport, is the capital city of Guizhou Province. With its suburban communities the city has a population of 1330000, in which 6 minority groups are represented with a total of about 160000 representing 12% of the total city. May weather in the

Province is warm. Daily maximum temperatures may range from 20-25°C, falling to 15-18°C at night. The days are often humid. There may be thunderstorms, but most days should be sunny.

Guizhou Normal University, founded in 1941, is a multidisciplinary institution for higher education of teachers in Guizhou Province. It consists of 14 departments with an enrollment of 8000 undergraduates and 400 postgraduates at present. Geography of the university, with major studies of karst, eco-environment and regional geography, is one of the oldest key subjects in both the university and the province. The Department of Geography is considered as one of three centers of karst research in China.

Guiyang Plaza Hotel, within 10 minutes walk to Guizhou Normal University, is located in the downtown of Guiyang City. The main building of the hotel, with 26 floors, holds 175 rooms including standard rooms and luxury suites. All rooms are installed with central air-conditioning, in-house music, PABX, closed circuit TV and alarm system. Chinese and western restaurants with Guizhou, Guangdong and Sichuan dishes, bar and coffee shops with western style are capable of catering up to 600 people at a time.

### **Secretariat:**

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**SINO-ITALIAN WORKSHOP ON KARST AND CAVES OF GUIZHOU**  
**5-10 November 2003, Guiyang (Guizhou) China**

**PRELIMINARY REGISTRATION FORM**

Family Name:		Given Name:					
Sex:	M	F					
Preferred Title: (check one)	Mr.	Mrs.	Ms.	Dr.	Prof.	Non	
Nationality:	Passport N°:						
Date and Place of Birth:							
Present occupation:							
Full address:							
Phone: (Home)	(Office)						
Fax:	E-mail:						
I would like to join the workshop _____ and the fieldtrip _____ (check all that apply)							
The title of my paper will be _____							

**Notes:**

1. Please type or print clearly; register one delegate per form. Photocopies of this form are acceptable. Send the form to the Organizing Committee no later than 15 October 2003.

2. Correspondence I: Ms. WU Jie, International Cooperation Division, Science and Technology Department of Guizhou Province, 16 Kexue Road, Guiyang 550002, Guizhou, P.R.China. Tel: +86-851-5815263 (O), 5891442 (H). Fax: +86-851-5827452, E-mail: [wujie@mail.gzst.gov.cn](mailto:wujie@mail.gzst.gov.cn)

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