

## 13<sup>th</sup> IPI-CAU-ISSAS International Symposium 第13届IPI-CAU-ISSAS“国际植物钾营养和钾肥大会”

Potash and Polyhalite: Potassium, Sulphur, Magnesium and Calcium for Efficient Balanced Plant Nutrition  
钾肥和杂卤石：钾、硫、镁和钙提供高效平衡的植物营养

6-8 November 2019, Kunming, China  
2019年11月6日-8日，中国-昆明

## First Announcement

### The 13<sup>th</sup> IPI-CAU-ISSAS International Symposium

“Potash and Polyhalite: Potassium, Sulphur, Magnesium and Calcium for Efficient Balanced Plant Nutrition”



### Background

The sustainability of agricultural systems greatly depends on balanced fertilization. For farmers in China, the priority is to implement precise and targeted crop nutrition for optimum crop productivity and profitability.

### Strong demand for better farm fertilizer use

With an increasing population and strong demand for food, fiber and fuel from agriculture, and no additional land for production, a much-needed further optimization and refinement of fertilization practices in China is required.

The government is determined to optimize the use of N fertilizer to achieve a reduction of the severe related environmental problems. By applying K, S, Mg and Ca, farmers will benefit from better uptake of N, improved utilization of precious irrigation water, more robust growth and yield, and increased profits.

### Being precise with K

Potassium requirements are diverse between the fast-growing fruit and vegetable sector, and the cereals and oil seeds sector. There is a need to optimize the use of potash.

### Importance of S, Mg and Ca

Sulphur, Mg and Ca nutrient deficiencies are increasingly becoming an important limiting factor in intensive crop production systems. In addition, S, Mg and Ca depletion in soils is a growing concern.

Polyhalite is a new multi-nutrient fertilizer with a gradual nutrient release pattern that constantly delivers S, Mg, K, and Ca, reducing the risk of leaching. An efficient solution to the need for S, Mg and Ca in agriculture, polyhalite has been shown to have a positive effect on crop growth, yield and quality worldwide.

### A symposium of science and practice

The symposium is organized by International Potash Institute (IPI), China Agricultural University (CAU), Institute of Soil Science of Chinese Academy Science (ISSAS), and co-organized by National Agro-Tech Extension and Service Center (NATESC), China Inorganic Salts Industry Association (CISIA) and Yunnan Agricultural University.

It will address the issues related to the role and benefits of potash and polyhalite fertilizers for Chinese agriculture, including soil fertility, plant nutrition, efficient use of fertilizers and balanced fertilization practices.

This symposium will be of interest to soil and plant nutrition scientists, agronomists, and extension officers from universities and research organizations, government offices, and agribusinesses who share an interest in improving food production and quality.

The symposium will be chaired by Prof. Fusuo Zhang, academician of the Chinese Academy of Engineering and Director of the National Institute of Green Agricultural Development at China Agricultural University.

### The symposium speakers:

- Surinder K. Bansal, Potash Research Institute of India, India
- Alberto C. de Campos Bernardi, Brazilian Agricultural Research Corporation, Brasil
- Michael Castellano, Iowa State University, USA
- Fang Chen, Chinese Academy of Sciences, Wuhan Botanical Garden, China
- Xinping Chen, Southwest University, Chongqing, China
- Zhenling Cui, China Agricultural University, Beijing, China
- Mingshou Fan, Inner Mongolia Agricultural University, Hohhot, China
- Shiwei Guo, Nanjing Agricultural University, Nanjing, China
- Ping He, Chinese Agricultural Academy of Sciences, China
- Patricia Imas, IPI, Switzerland
- Chunjian Li, China Agricultural University, Beijing, China
- Guohua Li, ICL, China
- Ti Li, Sichuan Agricultural University, China
- Ruixian Liu, Jiangsu Academy of Agricultural Sciences, Nanjing, China
- Jianwei Lu, Huazhong Agricultural University, Wuhan, China
- Hillel Magen, IPI, Switzerland
- Guohua Mi, China Agricultural University, Beijing, China
- Uri Nachshon, Agricultural Research Organization, Israel
- Jiwan P. Palta, University of Wisconsin, USA
- Tao Ren, Huazhong Agricultural University, Wuhan, China
- Jianyun Ruan, Tea Research Institute, Chinese Academy of Sciences, Hangzhou, China
- Xiaojun Shi, Southwest University, Chongqing, China
- Youguo Tian, NATESC, China
- Tran Minh Tien, Soils and Fertilizers Research Institute, Vietnam
- Fabio Vale, IPI, Switzerland
- Huoyan Wang, Institute of Soil Science, Chinese Academy of Sciences, Nanjing, China
- Min Wang, Nanjing Agricultural University, Nanjing, China
- Xiaofeng Wang, China Inorganic Salts Industry Association, China
- Yi Wang, China Agricultural University, Beijing, China
- Zhengyin Wang, Southwest University, Chongqing, China
- Lilian Wanjiru Mbutia, IPI, Switzerland
- Philip J. White, The James Hutton Institute, UK
- Zhijian Wu, Chinese Academy of Sciences Qinghai Institute of Salt Lakes, China
- Guohua Xu, Nanjing Agricultural University, Nanjing, China
- Minggang Xu, Institute of South Asian Tropical Crops, Chinese Academy of Tropical Agricultural Sciences, China
- Baige Zhang, Guangdong Academy of Sciences, Guangdong, China, Southwest University, Chongqing, China
- Chaochun Zhang, China Agricultural University, Beijing, China
- Fusuo Zhang, Chinese Academy of Engineering, College of Resources and Environmental Sciences, CAU, China
- Hongyan Zhang, China Agricultural University, Beijing, China
- Huimin Zhang, Chinese Agricultural Academy of Sciences, China

### Main themes

- Potassium management in different cropping systems
- Polyhalite as a multi-nutrient fertilizer
- Effect of polyhalite application on the yield and quality of different crops
- Role of S, Mg and Ca nutrients in plant nutrition
- Potassium and biotic and abiotic stresses
- Loss of soil fertility and stagnation of agricultural production
- Nutrient mining and input-output balances at farm and regional levels
- Crop management techniques for efficient fertilization

### Executive committee

- Chair: Mr. Hillel Magen, Director, IPI, Switzerland
- Prof. Jianmin Zhou, President of Nanjing Branch of The Chinese Academy of Sciences, ISSAS, China
- Prof. Fusuo Zhang, Academician of Chinese Academy of Engineering, College of Resources and Environmental Sciences, CAU, China
- Mr. Eldad Sokolowski, China Coordinator, IPI, Switzerland

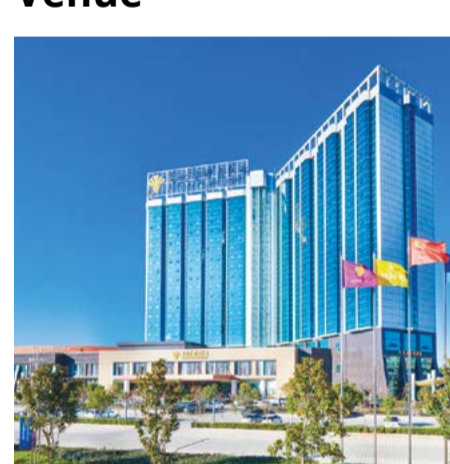
### Organizing committee

- Chairmen: Prof. Fusuo Zhang, CAU and Prof. Jianmin Zhou, ISSAS
- Secretary of the symposium: Prof. Huoyan Wang, ISSAS
- Prof. Jianchang Xie, ISSAS
- Dr. Guohua Li, ICL China
- Mr. Eldad Sokolowski, IPI
- Mr. Hillel Magen, IPI
- Dr. Patricia Imas, IPI

### Academic committee

- Prof. Fusuo Zhang, CAU
- Prof. Jianmin Zhou, ISSAS
- Prof. Huoyan Wang, ISSAS
- Mr. Hillel Magen, IPI
- Dr. Patricia Imas, IPI
- Mr. Eldad Sokolowski, IPI

### Venue



The symposium will take place at the Empark Grand Hotel Kunming, No. 1 Yingbin Road, Guandu District, Kunming, China <http://jdyd.wcwlzdkj.com/hotel/hotel.asp?hotelid=31399>.

To book your room, please contact Dr. Xiaoqin Chen - [xqchen@issas.ac.cn](mailto:xqchen@issas.ac.cn)  
Payment for the room should be taken care of by the participants.

### Timetable

Registration: November 5, 2019, 13:00-21:00.  
Symposium: Wednesday 6 November to Friday 8 November, 2019.  
Field visit to demonstration plots: afternoon, Friday 8 November, 2019.

### Registration

To register, complete the form in the symposium website at: <https://events.ipipotash.org/register/>

### Registration fees

Fees for participants who are not Chinese residents are:

- 400 US\$ until August 31, 2019
- 450 US\$ after August 31, 2019
- 300 US\$ for students until August 31, 2019
- 350 US\$ for students after August 31, 2019

Registration fees include: conference program, participation in discussions and lectures, lunches, dinners, coffee and refreshments during breaks, and transportation to field visit.

Payment can be made by bank transfer:

Beneficiary: Institute of Soil Science, Chinese Academy of Sciences  
Account number: 4301015909914100587  
Beneficiary's Bank: Industrial and Commercial Bank of China, JiangSu XuanWu Branch (NO.139, North HongWu Road, NJ, JS, China)  
SWIFT Code: ICBKCNBJNJG  
CNAPS Code: 102301000077

Or by cash (RNB): upon arrival at the registration desk

### Papers and posters

Papers will be published in a special issue of Pedosphere peer-reviewed international journal ([www.journals.elsevier.com/pedosphere](http://www.journals.elsevier.com/pedosphere)). The academic committee will review the manuscripts.

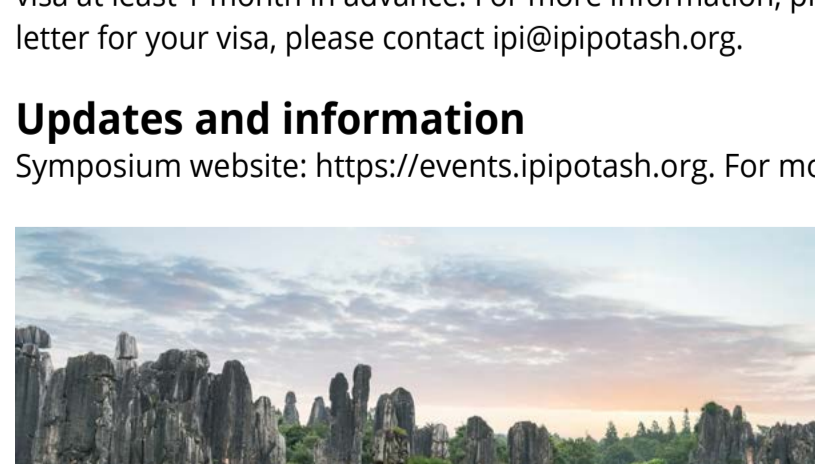
Poster presentations are open to all, and students are encouraged to participate and present research related or relevant to the themes of the symposium. Send the poster abstract in word or pdf file to: [patricia.imas@icl-group.com](mailto:patricia.imas@icl-group.com)

### Visa information

Conference participants may need a Chinese visa to enter China. Specifically, those who are not Chinese citizens, except passport holders from Singapore, Brunei, and Japan, need a Chinese visa. Participants can apply for a visa at the Chinese embassy or consulate in the region in which they live. To avoid uncertainty, participants are advised to apply for a visa as early as possible. It is recommended that they apply for a Chinese visa at least 1 month in advance. For more information, please contact the local Chinese Embassy in your country. If you need an invitation letter for your visa, please contact [ipi@ipipotash.org](mailto:ipi@ipipotash.org).

### Updates and information

Symposium website: <https://events.ipipotash.org>. For more information please contact [ipi@ipipotash.org](mailto:ipi@ipipotash.org)



### About Kunming

Kunming, is located in southwest China, and is the political, cultural, economic and transportation center of Yunnan Province. The beautiful, natural scenery, glorious historical heritages, and colorful folk customs made Kunming one of the first tourist destination cities in China.

One of the main attractions is the Kunming Stone Forest, a spectacular set of limestone groups, known since the Ming Dynasty (1368-1644 A.D.) as the 'First Wonder of the World'. Walking through the Stone Forest, visitors marvel at the natural stone masterpieces and are bewitched by the intricate formations. The magnificent, strange and steep landscape creates countless labyrinthine vistas.

