

## **Mianping Zheng**

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### **Research & Experience**

I graduated from the School of Earth Sciences and Engineering, Nanjing University, more than half century ago, and has started the research on salt lakes ever since. Although I am a geologist, my studies cover a variety of aspects in salt lake research.

I have spent most of my time on the resource assessment, environmental protection, and comprehensive utilization of salt lakes. My group and I have studied most of salt lakes in China, and we have primarily revealed the mystery of salt lakes on the Qinghai-Tibet Plateau after a half century's field work at places with average elevation of more than 4000 m. After a lot of hard work in various aspects, we have established 3 research stations at salt lakes in Tibet (Zabuye Lake, Damxung Co, and Bangkog Co), and we have started meteorological and hydrological monitoring at other 5 salt lakes on QT-Plateau. My work together with the work by our group has served resource basis for the industry of K, Li, B etc. in China, and we have also made critical contribution during the construction of the biggest K, Li production Bases in China.

I have also made many efforts to address the importance of saline lands and saline lakes as special “arable lands” for the regions in shortage of food, i.e. the concept of “salt lake agriculture”. On the basis of the long experience of salt lake research and utilization, I proposed the concept of salinology, which is a branch of applied science focused on the study of the chemistry, physics and biology of saline lake systems. The basic task of salinology is to study and explore the features of saline lakes, to provide a scientific and technological basis for the coordination between mankind and saline lakes, to promote the scientific management and rational utilization of saline lakes.

### **Five Representative Publications**

Zheng Mianping, 2014. Saline Lakes and Salt Basin Deposits In China. Science Press, Beijing.

Zheng, Mianping and Liu, Xifang, 2009. Hydrochemistry of Salt Lakes of the Qinghai-Tibet Plateau, China. *Aquat. Geochem.*, 15(1-2): 293-320.

Zheng Mianping, 2001. On salinology. *Hydrobiologia*, 466:339-347.

Zheng Mianping, 1997. An introduction to saline lakes on the Qinghai-tibet Plateau, Kluwer Academic Publishers.

ZHENG Mianping, ZHANG Zhen, KONG Weigang et al. 2016. Progress and Prospects of Salt Lake Research in China. *ACTA GEOLOGICA SINICA(English edition)*,90(4):1195~1235.

Mian-ping Zheng, Xian-hua Hou, Yong-sheng Zhang et al. 2018. Progress in the investigation of potash resources in western China, *China Geology*, 1, 392-401.

### **Candidate's Statement**

I have been active in salt lake research for a long time, and committed to the development of international salt lake science. I started to collaborate with scientists of the ISSLR ever since 1992, and have organized the 6<sup>th</sup> and 12<sup>th</sup> conference of ISSLR. I have served as a board member, vice-president, president of ISSLR since 1994. And with great honor, I was proposed as the candidate of vice-president of ISSLR during the 14<sup>th</sup> conference of ISSLR. Our society has been active since its foundation. I, with the suggestions and contributions from our board members, will do my best to help our society to reach the following goals as a vice-president:

1. To improve the relevance and success of the society in the study, conservation and integrated sustainable use of salt lakes for the benefit of present and future generations around the world.
2. To optimize the structure and functioning of our council to meet the new requirements on our society by the current situation of salt lake research; such as, to expand our council to cover all fields of study and all main salt lake regions.
3. To motivate board members to better manage our society and to improve the collaborations between different fields and different regions.
4. To devote more efforts by our society on the training of young scientists.