

**The Eleventh Tripartite Presidents Meeting  
among NIES, NIER and CRAES**

**Keynote Speech**

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November 12, 2014



Distinguished President SUMI, President KIM,  
Ladies and Gentlemen, Good morning.

First of all, on behalf of Chinese Research Academy of Environmental Sciences (CRAES), I would like to extend my congratulations to the opening of TPM11 at the beautiful city of Kawasaki.

We have successfully organized the tenth TPM, in which 9 priority research areas of cooperation have been identified under joint efforts of CRAES, NIES, and NIER. We are very pleased to see that under the basic principle of “Friendship, Communication, Cooperation and Win-Win”, TPM has become a platform dedicated to the improvement of regional environmental cooperation in Northeast Asia. Meanwhile, it has won the recognition and support from the Ministry of Environment of China, Japan and Korea. We are very glad to see that APEC meeting was held in Beijing yesterday. The theme of APEC meeting is “cooperation, win-win, development and prosperity”. We hope that the economy in Asia-Pacific region will realize sustainable development. In this process, CRAES would like to work with NIES and NIER to play the technical support role jointly.

On this occasion, I would like to inform you firstly about the construction of ecological civilization and the progress in environmental protection in China. As you know, nowadays, the Chinese government is attaching more strategic importance to environmental protection in recent years. Ecological civilization is promoted with strong determination and strength. It was emphasized by Chinese President Xi Jinping that ecological civilization should be integrated with political, economic, social and cultural construction and we should scientifically promote the joint development of industrialization, urbanization, rural modernization and informatization, and that we will never pursue temporary economic growth at the expenses of the environment.

On the World Environment Day of June 5th this year, China's Vice Prime Minister Zhang Gaoli visited CRAES and gave an important speech. China firmly adheres to the environmental protection in accordance with its natural conditions and socio-economic development and will fight against pollution, giving priority to solving key environmental problems that are influencing public health. Focusing mainly on the pollution control of air, water and soil, the Atmospheric Pollution Control and Prevention Action Plan was issued and implemented in September 2013, with priorities given to pollution control of fine particulate matter (PM<sub>2.5</sub>). The Water Pollution Control and Prevention Action Plan and Soil Pollution Control and Prevention Action Plan are under preparation by Ministry of Environmental Protection (MEP).

The second is about the reform of China's science and technology system and the development of environmental research institutes. The reform is under promotion. The purpose is to form a target, performance-oriented and clearer management model for science and technology planning, focus on national targets, satisfy science and technology innovation principle, more effectively allocate science and technology resources, further strengthen the integration of science, technology and economy, and stimulate the innovation motivation of scientists.

Now, I would introduce you some of the recent important initiatives by CRAES in terms of science and technology innovation and development. They mainly include:

1. According to our own development strategy and advantages, CRAES actively participates in national major science and technology programs, as well as environmental engineering, including National Special Water Program, research planning of clean air, environment protection planning of good-quality lakes, etc.
2. We are also actively promoting research on national environmental criteria, establishing water quality criteria theory and methodology system with the core contents of environmental exposure, effect identification and risk assessment. We have completed the derivation of water quality criteria for more than 10 kinds of typical pollutants and published China Basin Water Environmental Quality Standard Green Book in 2013.
3. We have set up China's technical system for watershed water quality target management, with technical research and development for watershed aquatic ecological function zoning, water environmental quality criteria and standards, and total pollution load control. All of these efforts have greatly improved the level of

science and technology for China's innovation of watershed water environmental management system.

4. CRAES has strengthened research on environment and human health, providing technical support for the implementation of National Environment and Human Health Action Plan (2007-2015), with the compilation of Report of Environmental Exposure Related Activity Patterns Research of Chinese Population and Exposure Factors Handbook of Chinese Population.

5. In terms of research on compound urban atmospheric pollution, CRAES set up the largest outdoor simulation system of photochemical smog chamber in China, which has obtained innovative results in fields of research on photo oxidation mechanism under near actual atmospheric conditions, and the surface chemical composition and structure of atmospheric aerosol fine particles, etc. The vehicular pollution control group has played an important role in providing technical recommendations to MEP in the areas of source apportionment and environmental assessment of fuel quality.

6. Regarding eco-city and ecological civilization, CRAES systematically summarized the theories and methods, and took the lead in carrying out the planning for eco-city and ecological civilization, putting forward the research paradigm of the calculation methods for minimum ecological land use and ecological city carrying capacity. Meanwhile, we proposed the retrospective assessment methods for eco-industrial park planning and construction, which has provided effective support to the Ministry of Environmental Protection of China in the building of eco-industrial parks.

7. We have also made positive efforts in the alliance of industries, universities and research institutes. In cooperation with Qingdao New World Environmental Protection Co., Ltd. and Qingdao Environmental Protection Bureau, we jointly established Urban Mineral Engineering Technology Center.

I encourage CRAES researchers to continuously and modestly learn from the colleagues of NIES and NIER, exchange information and actively develop joint research. I believe that under the continuous support from the Presidents of NIES and NIER, TPM mechanism will play a more and more important role in improving regional environmental quality through our joint efforts. I am willing to enhance the cooperation together with President SUMI and President Kim, making the TPM mechanism move on for better future.

Finally, I would like to wish TPM11 and the workshop a great success!

Thank you!