

## Beijing Forum 2019 Environmental Health —A Joint Event of AGU Centennial and MAIRS (IV)

On the afternoon of November 3rd, the Environmental Health—A Joint Event of AGU Centennial and MAIRS, one of the sub-forums of Beijing Forum (2019), was held at Dong Xu Conference Hall, School of Economics, PKU. Scholars from all over the world focused on the topic of planetary health and geo-health, health and policy.

Professor Gabriel Filippelli, from Indiana University-Purdue University Indianapolis, chaired the first session. Professor Peng Gong, from the Department of Earth Systems Science, Tsinghua University, presented on “City Health Outlook Principles and Strategies: Sensing, Mapping, and Modeling of Health and the Environment”. He began by introducing that the source and formation mechanism of air pollution in China were complex, and the distribution had high spatio-temporal heterogeneity. Tsinghua University has established a city health outlook project team and carried out a series of studies, and the results of which showed that low-income individuals were more susceptible to pollution threats because of the lack of self-distance travel and a poor working and living environment. He concluded that healthy cities in China required a multiscale approach.

The following speech, titled “The State of Global Air 2019: Making Progress for Public Health”, was given by Daniel Greenbaum, president of Health Effects Institute. His research showed that over 90% of the world’s population lived in areas above WHO’s guideline for PM<sub>2.5</sub>, and 47% of the world’s population were exposed to household air pollution from solid fuel burning in 2017.

Windy Boyd, science editor of Environmental Health Perspectives, gave a speech titled “Environmental Health Perspectives: Complementing the Mission of the National Institute of Environmental Health Sciences and Serving the Global Environmental Health Community”. She mainly introduced the objectives and research fields of the journal.

The last speech in this session, titled “Understanding Health Impacts of Climate Change in the Asia Pacific: The Critical Role of Health Professionals”, was given by Cunrui Huang, professor of the School of Public Health, Sun Yat-sen University. He emphasized that the temperature in China was rising year by year, and people were very sensitive to the health effects caused by temperature

fluctuation and climate change.

Daniel Greenbaum, president of the Health Effects Institute, chaired the second session. The first speaker was professor Lidia Morawska, from the Institute for Health and Biomedical Innovation, Queensland University of Technology. She gave a speech titled “Transition to Clean Energy: Is This Discussion Closed?” She suggested that transitioning to clean energies was not a choice but an imperative for humanity, and that advancement could accelerate and new solutions found if there was a demand.

Markus Amann, AIR program director from the International Institute for Applied Systems Analysis, gave a speech titled “Science-based Solutions to Clean Air in Asia”. He said that future air quality improvements in Asia required a re-orientation of current policies. To move towards air quality standards, measures that involve other sectors, such as agriculture, energy and waste management, will be indispensable.

Assistant professor Hancheng Dai, from the College of Environmental Sciences and Engineering, Peking University, gave a speech titled “Co-benefits of Climate Change Mitigation on Air Quality and Human Health in Asian Countries”. His team developed an integrated model of energy, environment and economy for sustainable development (IMED). Based on the IMED model, health and economic impacts caused by air pollution could be quantified, and cost-benefit analysis of energy of air pollution control policy could also be provided.

After the last session, professor Tong Zhu, from the College of Environmental Sciences And Engineering, Peking University, hosted a closing ceremony. Professor Tong Zhu thanked the organizers, all participants and volunteers. The Environment Health—A Joint Event of AGU Centennial and MAIRS came to an end with a big round of applause.