

# 2016 International Asian dust and Aerosol Workshop

Wednesday, Sep. 21, 2016

Halla Hall, NIMS, Jeju, Korea

## Time

08:40-09:00 **Registration**

## **SESSION 1: Opening**

**Chair: Sang-Ok Han (NIMS/KMA)**

09:00-09:10 Welcoming address & Congratulatory messages

(1) Jae-Cheol Nam(Vice Administrator, KMA)

(2) Byung-Ju Sohn (President of KMS)

**09:10-09:25 Photoshoot for all participants & Break**

### **KEYNOTE SPEECH**

09:25-09:55 The Status and future plan of SDS-WAS activities (Alexander Baklanov, WMO)

09:55-10:25 In addition to the impact of SDS, the other effects of high concentration of dust aerosol in Asia (Xiaoye Zhang, CAMS/CMA)

10:25-10:45 Climate change and KOICA's Contribution to addressing the issue (Sang Hoon Jung, KOICA)

**10:45-11:00 Coffee Break**

## **SESSION 2: Observation and Analysis**

**Chair: SoonTae Kim (Ajou Univ.)**

11:00-11:15 Atmospheric Mineral Aerosol Reaction (AMAR) Kinetic Module for Predicting Secondary Inorganics (Myoseon Jang, University of Florida)

11:15-11:30 Soil erodibility over Mongolia (Dulam Jugder, IRIMHE)

11:30-11:45 Observational study of dust emission under different ground surface condition in desert steppe, Mongolia (Batdelger Gantsetseg, IRIMHE)

11:45-12:00 Severe dust storm in the southwest of Kazakhstan at the end of March 2015 (Manzura Nassyrova, RSE "Kazhydromet")

12:00-12:15 Hygroscopic properties of urban aerosols and their cloud condensation nuclei activities measured in Seoul during the MAPS-Seoul campaign (Seong Soo Yum, Yonsei University)

12:15-12:30 Aerosol monitoring using GEO satellite over Northeast Asia (Mijin Kim, Yonsei University)

**12:30-14:00 Lunch**

### **SESSION 3: Modelling and Prediction**

**Chair: Xiaoye Zhang (CAMS/CMA)**

- 14:00-14:15 Retrieval dust AOT and height from AIRS measurements and application for dust forecasting over Korea (Byung-Ju Sohn, Seoul National University)
- 14:15-14:30 Modelling the dust cycle at the Barcelona Supercomputing Center: From R&D to operational forecast (Sara Basart, Barcelona Supercomputer Center)
- 14:30-14:45 Primary result of Sand and dust storm model intercomparison in Asian node in 2013 spring (Yaqiang Wang, CAMS/CMA)
- 14:45-15:00 Recent developments on CMA environmental prediction operation (Xuekuan Ma, CMA)
- 15:00-15:15 The comparison of Sand and dust storm model over Asian node in 2016 (Hailin Gui, CMA)
- 15:15-15:30 Current Asian dust forecasting/monitoring activities of JMA/MRI (Takashi Maki, MRI/JMA)
- 15:30-15:45 CMAQ Simulations to Analyze the Long-term Variations of Criteria Air Pollutants in the Greater Seoul during 2004~2015 (Soontae Kim, Ajou University)

**15:45-16:00 Coffee Break**

### **SESSION 4: Issues in Dust and Aerosols**

**Chair: Takashi Maki (MRI/JMA)**

- 16:00-16:15 Health Forecasting - Impact of Sahara Desert to Meningitis in West Africa (Tetsuo Nakazawa, NIMS/KMA)
- 16:15-16:30 Validation/assimilation of aerosol chemical transport models using the ground-based lidar network (AD-Net) (Nobuo Sugimoto, NIES)
- 16:30-16:45 Development of the aerosol data assimilation in KMA using surface PM<sub>10</sub> monitoring networks (Jeong Hoon Cho, NIMS/KMA)
- 16:45-17:00 SDS-WAS multi-model ensemble: a tool for dust forecast and climatological analysis (Enric Terradellas, State Meteorological Agency of Spain)
- 17:00-17:15 Springtime trans-Pacific transport of Asian pollutants characterized by the Western Pacific (WP) pattern (Ja-Ho Koo, Yonsei University)

**17:15-17:20 Closing & Announcement**

**18:15-21:00 Reception**