

The 2014 International Workshop on SKYNET and Asian Lidar Network

Conference room No.7 in the fourth floor of Lijing Holiday Hotel
 350 Shushanhu Road, Hefei, Anhui 230031, China
 (安徽省合肥市蜀山湖路 350 号 科学岛丽景假日酒店西区)

	September 9 Tuesday	September 10 Wednesday	September 11 Thursday	September 12 Friday
9:00 - 12:00	Registration	Opening ceremony Group photo Session 1 Session 2	Section 5 Session 6	Session 7 Visiting labs
12:00 - 13:00	Lunch - buffet			
14:00 - 17:00	Registration	Session 3	Sightseeing in Hefei	Session 8
17:30 - 18:30		Session 4		Closing remark
18:30 - 19:30	Dinner - buffet	Dinner - buffet	Dinner - buffet	Dinner - banquet & farewell party

#Poster session is integrated in the tea break.

Program

September 9		
8:00- 23:00	Registration	The lobby of Lijing Holiday Hotel
12:00 - 13:00	Lunch	Buffet at the dining hall in the second floor of the Hotel
18:30 - 19:30	Dinner	Buffet at the dining hall in the second floor of the Hotel

September 10	Day 1	
8:00 – 9:00	Registration	The lobby of Lijing Holiday Hotel
9:00 – 9:15	Opening ceremony	Chair: Dr. Dong Liu
1	Welcome speech by Prof. Yingjian Wang	
2	Speech by Prof. Teruyuki Nakajima	
3	Speech by Dr. Nobuo Sugimoto	
4	Speech by Prof. Guangyu Shi	
5	Logistics etc. introduced by Dr. Dong Liu	
9:15 – 9:30	Group photo	The gate of Lijing Holiday Hotel
9:30 – 10:40	Session 1 : Overview of the SKYNET and AD-NET Chair: Dr. Hitoshi Irie	
9:30 - 9:50	Prof. Teruyuki Nakajima ; University of Tokyo, Japan An overview of the recent progresses in the skyradiometer technology and SKYNET operation	
9:50 - 10:10	Dr. Nobuo Sugimoto ; National Institute for Environmental Studies, Japan Current status of the Asian Dust and aerosol lidar observation network (AD-Net)	
10:10 – 10:25	Prof. Huizheng Che ; China Meteorological Administration, China Working plan of Chinese sub-group of SKYNET	
10:25 – 10:40	Dr. Zhenzhu Wang ; Anhui Institute of Optics and Fine Mechanics, Chinese Academy of Sciences The current status of SKYNET Hefei site and the observational findings	
10:40-11:00	Tea break	
11:00 – 12:00	Session 2 : Ground-based observation of aerosol Chair: Prof. Huizheng Che	
11:00 – 11:20	Prof. Jianping Huang ; Lanzhou University, China Ground-Based Observation and Field Campaign for	

	Anthropogenic Dust over Northwest China	
11:20 – 11:40	Mr. Vijay Kumar Soni ; India Meteorological Department, India Similarities and differences of Aerosol Optical Properties between Mega City and nearby semi-urban Area in India	
11:40 – 12:00	Prof. Tugjsuren Nasurt ; Department of Geology and Geophysics, National University of Mongolia, Mongolia Aerosol optical properties over Ulaanbaatar and Mandalgobi, Mongolia	
12:00 – 13:00	Lunch	Buffet at the dining hall in the second floor of the Hotel
14:00 – 15:20	Session 3 : Aerosol retrieval using sky radiance Chair: Prof. Tugjsuren Nasurt	
14:00 – 14:20	Prof. Zhengqiang Li ; Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China Recent progress on calibration methods of CE318 sun-sky radiometer	
14:20 – 14:40	Dr. Pradeep Khatri ; Center for Environmental Remote Sensing, Chiba University, Japan Comparison of single scattering albedo retrieved from PREDE sky radiometer and CIMEL sun photometer	
14:40 – 15:00	Ms. Tatiana Bedareva ; V.E. Zuev Institute of Atmospheric Optics SB RAS, Russia Aerosol retrieval from Sun and sky radiance measurements using non-Lambertian reflectance models	
15:00 – 15:20	Dr. Shantikumar Singh Ningombam ; Indian Institute of Astrophysics, India Estimation of aerosol radiative forcing from ground-based solar radiation measurements during advection and non-advection events over an aged-background aerosol feature	
15:20-15:40	Tea break	

15:40 – 17:00	Session 4 : Aerosol properties and validation Chair: Dr. Pradeep Khatri	
15:40 – 15:55	Dr. Baatarchuluun Tsermaa ; Mongolian University of Science and Technology, Mongolia A case study of comparison between scattering indicatrices at different sky conditions in Ulaanbaatar, Mongolia	
15:55 – 16:10	Prof. Teruyuki Nakajima , representative of Dr. Monica Campanelli ; Institute of Atmospheric Sciences and climate, Italy Validation of downward solar radiation from Meteosat Second Generation by ground-based observations of the European Skynet Radiometer network	
16:10 – 16:25	Dr. Jianrong Bi ; College of Atmospheric Sciences, Lanzhou University, China Investigate the aerosol optical and radiative characteristics of heavy haze episodes in Beijing during the January of 2013	
16:25 – 16:40	Ms. Zhe Jiang ; Institute of Atmospheric Physics, Chinese Academy of Sciences, China Validation of the new data-processing method for SKYNET skyradiometer observations	
16:40 – 17:00	Closing remark of day 1	
17:30 – 18:30	Dinner	Buffet at the dining hall in the second floor of the Hotel

September 11		Day 2	
9:00 – 10:00		Session 5: Lidar network Chair: Prof. Duk hyeon Kim	
9:00 – 9:20	Dr. Atsushi Shimizu ; National Institute for Environmental Studies, Japan	Extinction coefficients of tropospheric background aerosol derived from AD-Net lidar network in east Asia	
9:20 – 9:40	Prof. Xianghui Xue ; University of Science and Technology of China, China	Recent progress on Atmospheric sodium layers studies in MLT region detected by Chinese Meridian Project/USTC Lidars	
9:40 – 10:00	Prof. Dengxin Hua ; Xian University of Technology, China	Combined Raman Lidar for Profiling Atmospheric Water Vapor, Temperature, Aerosol and Clouds up to the Height of 30 km	
10:00-10:20		Tea break	
10:20 – 11:50		Session 6 : Lidar technique Chair: Dr. Atsushi Shimizu	
10:20 – 10:35	Prof. Zongming Tao ; New Star Institute of Applied Technology, China	Measurements of aerosol backscattering coefficient in near ground by CCD side-scatter lidar	
10:35 – 10:50	Dr. Seung-Kyu Park ; Korea Atomic Energy Research Institute, Korea	Error calibration of Doppler lidar signals by using reference beam fluctuations	
10:50 – 11:05	Dr. Chenbo Xie ;Anhui Institute of Optics and Fine Mechanics, Chinese Academy of Sciences, China	Development of Raman lidar to measure the atmospheric aerosol, temperature and water vapor	
11:05 – 11:20	Dr. Kaifa Cao ; Anhui Institute of Optics and Fine Mechanics, Chinese Academy of Sciences, China		

	Development of a mobile differential absorption lidar system for SO ₂ and NO ₂ detection	
11:20 – 11:35	Dr. Kee Yuan; Anhui Institute of Optics and Fine Mechanics, Chinese Academy of Sciences, China Reliability Analysis of Raman Lidar for Measurement on CO ₂ in the low Troposphere	
11:35 – 11:50	Dr. Dong Liu; Anhui Institute of Optics and Fine Mechanics, Chinese Academy of Sciences, China Combined lidar measurements of Hefei, Lanzhou and Xianghe site	
12:00 – 13:00	Lunch	Buffet at the dining hall in the second floor of the Hotel
14:00 – 18:30	Sightseeing in Hefei City, gathering at the gate of the Hotel	
18:30 – 19:30	Dinner	Banquet at the dining hall in the second floor of the Hotel

September 12		Day 3	
9:00 – 10:00		Session 7 : Aerosol and cloud properties retrieved by multiple sensors Chair: Prof. Soon-Chang Yoon	
9:00 – 9:20		Dr. Omar Torres ; NASA Goddard Space Flight Center, USA Assessment of OMI retrievals of aerosol single scattering albedo using ground-based sky brightness measurements	
9:20 – 9:40		Prof. Tamio Takamura ; Center for Environmental Remote Sensing, Chiba University, Japan Validation of Liquid water path (LWP) of AMSR2/GCOM-W1 using MODIS and SKYNET observation data	
9:40 – 10:00		Prof. Duk hyeon Kim ; Hanbat National University, Korea Liquid Cloud Effective Size Measurement by Using Multiple Scattering Degree of Linear Polarization and Saturated Degree of Linear	
10:00-12:00		Visiting the labs in AIOFM	
12:00 – 13:00		Lunch	Buffet at the dining hall in the second floor of the Hotel
14:00 – 15:45		Session 8 : Aerosol and cloud properties retrieved using lidar and climate Chair: Dr. Bin Chen	
14:00 – 14:15		Mr. Man-Hae Kim ; School of Earth and Environmental Sciences, Seoul National University, Korea Characteristics of extinction-to-backscatter ratio of dust and pollution aerosols derived from NIES lidar, SKYNET and AERONET measurements	
14:15 – 14:30		Dr. Yoshitaka Jin ; National Institute for Environmental Studies, Japan Applicability of ceilometer for retrieval of aerosol optical properties	
14:30 – 14:45		Dr. Tian Zhou ; Lanzhou University, China	

	The Depolarization–Attenuated Backscatter Relationship for Dust plumes	
14:45 – 15:00	Mr. Lu Sun; Anhui Institute of Optics and Fine Mechanics, Chinese Academy of Sciences, China The relationship between cloud effective radius and aerosol optical depth with different aerosol loads in SKYNET observation of Hefei, China.	
15:00 – 15:15	Dr. Tie Dai; Institute of Atmospheric Physics, Chinese Academy of Sciences, China Improvement Of Aerosol Optical Properties Simulation Over Eastern Asia With Data Assimilation	
15:15 – 15:30	Dr. Bing Chen; Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences, China Anthropogenic Heat Release: An Important Factor in Global Climate	
15:30-15:50	Tea break	
15:50 – 16:50	Closing remark	Chair: Dong Liu
17:30 – 19:30	Dinner	Banquet and farewell party at the dining hall in the second floor of the Hotel

Poster Session*

*integrated in the tea break

Prof. Hai Du Cheong; Hanbat National University, Korea
An Ellipsometry Lidar for Atmospheric Parameters Determination Based on Clouds and Aerosol Backscattering Matrix

Dr. Víctor Estellés; Universitat de València, Spain
Evaluation of the Improved Langley Plot technique on a Prede POM radiometer by comparison with AERONET field transferred calibrations

Mr. Sang-Woo Kim; School of Earth and Environmental Sciences, Seoul National University, Korea
Measurements of aerosol vertical profiles and optical properties using Portable Aerosol Profiler (PAP) "Polly" lidar in Baengnyeong Island, Korea

Mr. Byeongwon Kim; School of Earth and Environmental Sciences, Seoul National University, Korea
Improved ANN method for retrieving Asian dust AOT and height for hyperspectral infrared measurements and its application

Mr. Sang-Moo Lee; School of Earth and Environmental Sciences, Seoul National University, Korea
Asian-dust detection over the Yellow-Sea from MODIS window measurements using combined Fresnel relationship

Mrs. Nana Yi; College of Atmospheric Sciences, Lanzhou University, China
The Optical Characteristics and Direct Radiative Forcing of Aerosol over Loess Plateau