

**UK-JIANGSU 20+20 WORLD-CLASS
UNIVERSITY INITIATIVE
Joint International Symposium**

HANDBOOK

25th -27th April, 2018

Nanjing, China

UK-JIANGSU 20+20 WORLD-CLASS UNIVERSITY INITIATIVE

Joint International Symposium

25th -27th April 2018, Nanjing, China

Co-Hosted by

University of Reading (UoR)

Nanjing University of Information Science and Technology (NUIST)



南京信息工程大学
Nanjing University of Information Science & Technology



**University of
Reading**

Organized by

NUIST Reading Academy

Organizing Committee

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Beiqun Li Professor, President of NUIST
Steven Mithen Professor, Deputy Vice-Chancellor of UoR

Deputy Chairs

Xuanfei Liu Professor, Vice President of NUIST
Doug Saddy Professor, Director, International research engagement, UoR

Secretary General

Yan Ma Professor, Executive Dean of NUIST Reading Academy

Committee Members

Sue Grimmond	Jie Cao	Tao Chen	Haishan Chen
Zhong Chen	Xiangqin Chen	Xiaolei Gen	Yunhua Gu
Zhaobing Guo	Sai Ji	Hong Liao	Yaping Liu
Tinhuai Ma	Guoyue Tang	Ji Wang	Libao Wu
Bo Wu	Xinchang Zhang	Shuping Yu	Wei Zheng

Academic Committee

Chairs

Prof. Huijun Wang

NUIST

Prof. Roland Potthast

German Weather Service, UoR

Nanjing University of Information Science and Technology

Prof. Haishan Chen

Prof. Zhiqiu Gao

Prof. Yijun He

Prof. Hong Liao

Prof. Xieyao Ma

Prof. Zaiqiang Yang

Prof. Yan Yin

Prof. Bin Zhu

University of Reading

Prof. Sue Grimmond

Prof. Andy Turner

Logistic Arrangements

Registration Arrangement

1. Participants who stay at the Jinling New Town Hotel are recommended to register and collect meeting materials between **14:00 and 21:00** on the 25th April, 2018 in the hotel lobby.
2. Participants can register outside the Lecture Hall (1st Floor) of Meteorological Building between **8:00 and 9:00** on the 26th April, 2018.
3. Participants can register in the lobby (1st Floor) of Reading Academy Building between **9:00 and 18:00** on the 26th -27th April, 2018.

Shuttle Bus Timetable

Date	Time	Arrangement
26 th April	8:10	From Jinling New Town Hotel to Meteorological Building
	13:15	From Nanqi Hotel to SESE Building (Environmental Session)
	17:45	From SESE Building to Nanqi Hotel
	19:00	From Nanqi Hotel to Jinling New Town Hotel
27 th April	8:10	From Jinling New Town Hotel to Meteorological Building - SESE Building
	12:15	From SESE Building to Nanqi Hotel
	13:15	From Nanqi Hotel to SESE Building
	15:15	From SESE Building to Meteorological Building for campus tour
	17:00	From library to Jinling New Town Hotel

Note: SESE: School of Environmental Science and Engineering

Due to the short distance, participants for the Meteorological Session and the Education Session take a walk to Nanqi Hotel for meals.

Dining Arrangement

Date	Time	Location	Note
25 th April	Dinner (18:00-20:00)	Jinling New Town Hotel	Meal Coupon
26 th April	Breakfast (06:30-08:00)	Jinling New Town Hotel	Free breakfast at hotel by showing your room key
	Lunch (12:00-13:10)	Nanqi Hotel	Meal Coupon
	Dinner (18:00-19:00)	Nanqi Hotel	Dinner Reception

27 th April	Breakfast (06:30-08:30)	Jinling New Town Hotel	Free breakfast at hotel by showing your room key
	Lunch (12:30-13:30)	Nanqi Hotel	Meal Coupon
	Dinner (18:00-20:00)	Jinling New Town Hotel	Meal Coupon

Wi-Fi Connection

Venue	Wi-Fi Name	Account	Password
Meteorological Building	i-NUIST	test	66666666
SESE Building	i-NUIST	test	66666666
Reading Academy Building	i-NUIST	test	66666666

Contact Information

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Sessions and Conveners

Meteorology Session

China: Prof. Haishan Chen

UK: Prof. Roland Potthast

Environmental Science Session

China: Prof. Hong Liao

UK: Prof. Sue Grimmond

Education Session

China: Prof. Zhaobing Guo

UK: Prof. Daguo Li

Programme Timetable

Date	Time	Lecture Hall on the first floor of the Meteorological Building	Lecture Hall N201 at School of Environmental Science and Engineering (SESE) Building	Meeting room N314 at Reading Academy Building		
Thursday 26 th April 2018	8:30-9:00	Opening Ceremony	/	/		
	9:00-9:30	Group Photo at the Southern Entrance of the Building & Tea Break				
	9:30-12:00	Plenary Talks			Site visit and discussions at NUIST Reading Academy (Education Session participants)	
	12:00-13:30	Buffet Lunch Break				
	13:30-17:40	Meteorology Session			Environmental Science Session	Education Session
	18:00-19:00	Dinner Reception				
Friday 27 th April 2018	8:30-12:10	Meteorology Session	Environmental Science Session	/		
	12:10-13:30	Buffet Lunch Break				
	13:30-15:30	Meteorology Session	Environmental Science Session			
	15:30-17:00	Campus Tour	Campus Tour			

PLENARY MEETING

Thursday 26th April, 2018 8:30-9:30
Lecture Hall on the first floor of the Meteorological Building

Host: Prof. Xuanfei Liu

Opening Ceremony

8:30-9:00	Prof. Beiqun Li, NUIST President	Welcome Address
	Representative of Jiangsu Provincial Department of Education	Opening Remarks
	Mr. Matthew Knowles, Consul of British Council	Opening Remarks
	Prof. Steve Mithen, UoR Deputy Vice-Chancellor	Opening Remarks
	Signing MOU of the NUIST-UoR International Research Institute	

9:00-9:30 Photo / Tea Break

Keynote Talks

9:30-10:00	Plenary talk from National Science Foundation of China on International Joint Research Project	
10:00-10:30	Plenary talk from Prof. Huijun Wang	
10:30-11:00	Plenary talk from Prof. Roland Potthast	
11:00-11:30	Plenary talk from Prof. Hong Liao	
11:30-12:00	Plenary talk from Prof. Sue Grimmond	

Lecture Hall on the first floor of the Meteorological Building

Meteorology Session

26th April 2018

13:30-17:40

Time	Title	Speaker
Chair: Prof. Haishan Chen		
13:30-13:55	Recent decadal climate changes over East Asia in summer: Drivers and mechanisms	Buwen Dong <i>University of Reading</i>
13:55-14:20	Model biases and the Asian monsoon: the monsoon simulation problem and a case study of different responses to orographic forcing in GCMs	Andy Turner <i>University of Reading</i>
14:20-14:45	Enhancement of the spring East China precipitation response to tropical sea surface temperature variability	Jianqi Sun <i>Institute of Atmospheric Physics, Chinese Academy of Science</i>
14:45-15:10	Summer Land-Atmosphere Interaction in Mid-latitude of East Asia	Haishan Chen <i>Nanjing University of Information Science and Technology</i>
15:10-16:00	Poster Session / Tea Break	
Chair: Prof. Roland Potthast		
16:00-16:25	Global Response of Clear-Air Turbulence to Climate Change	Paul Williams <i>University of Reading</i>
16:25-16:50	Doppler Radar Analysis of a Tornadic Miniature Supercell during the Landfall of Typhoon Mujigae (2015) in South China	Kun Zhao <i>Nanjing University</i>
16:50-17:15	Using Satellite Radar to Deliver Next-Generation Rainfall Mapping Products	Keith Morrison <i>University of Reading</i>
17:15-17:40	Measurements and Parameterization of Atmospheric Ice Nuclei in Different Background Regions in China	Yan Yin <i>Nanjing University of Information Science and Technology</i>

Each presentation, unless noted otherwise, is 20 min, plus 5 min for questions and discussion.

Lecture Hall on the first floor of the Meteorological Building

Meteorology Session

27th April 2018

08:30-12:10

Time	Title	Speaker
Chair: Prof. Andy Turner		
8:30-8:55	Global high-resolution climate modelling and an application for Tibetan Plateau Vortices	Reinhard Schiemann <i>University of Reading</i>
8:55-9:20	Moving Meshes for Global Atmospheric Modelling	Hilary Weller <i>University of Reading</i>
9:20-9:45	Projected change in East Asian summer rainfall and associated atmospheric circulations	Botao Zhou <i>Nanjing University of Information Science and Technology</i>
9:45-10:10	Stratospheric ozone depletion and mesospheric metal layers studies with a chemical transport model and a chemistry-climate model	Wuhu Feng <i>University of Leeds</i>
10:10-10:30	Tea Break	
Chair: Prof. Botao Zhou		
10:30-10:55	On the local view of atmospheric available potential energy	Remi Tailleux <i>University of Reading</i>
10:55-11:20	Improving Parameterization of Cloud Entrainment-Mixing in WRF Microphysics Scheme	Chunsong Lu <i>Nanjing University of Information Science and Technology</i>
11:20-11:45	Unraveling El Niño's Impact on The East Asian Monsoon and Yangtze River Summer Flooding	Wenjun Zhang <i>Nanjing University of Information Science and Technology</i>
11:45-12:10	Climate extremes over the Third Pole region: observation, evidence and projection	Qinlong You <i>Nanjing University of Information Science and Technology</i>

Each presentation, unless noted otherwise, is 20 min, plus 5 min for questions and discussion.

13:30-15:30

Chair: Prof. Haishan Chen

Open Discussions: research collaborations, joint research projects, etc.

Environment Science Session

26th April 2018

13:30-17:40

Time	Title	Speaker
Chair: Prof. Hong Liao		
13:30-13:55	Effectiveness of pollution control measures under scenarios of future climate and land cover change at the catchment scale	Andrew Wade <i>University of Reading</i>
13:55-14:20	Clouds, Aerosols and Environment: the Manchester Perspective	Ann Webb <i>University of Manchester</i>
14:20-14:45	Evaluation of local emission inventory through observation and chemistry transport model	Yu Zhao <i>Nanjing University</i>
14:45-15:10	Enhancements of Airborne Particulate Arsenic over the Subtropical Free Troposphere in the Springtime: Impact by South Asian Biomass Burning	Yu-Chi Lin <i>Nanjing University of Information Science and Technology</i>
15:10-16:00	Poster Session / Tea Break	
Chair: Prof. Andrew Wade		
16:00-16:25	Nanophotonics in environmental science: current status and future perspectives	Fumin Huang <i>Queens University Belfast</i>
16:25-16:50	Triphenylamine-Derived Materials for Highly Efficient Metal-Air Batteries and Solar Cells	Mingdao Zhang <i>Nanjing University of Information Science and Technology</i>
16:50-17:15	Assessing health risks from arsenic intake by residents in Cambodia	Suthipong Sthiannopkao <i>Nanjing University of Information Science and Technology</i>
17:15-17:40	Formation and Reduction of Mono-aromatic Hydrocarbons (Bio-tar) during Thermochemical Processing of Biomass and Wastes	Yafei Shen <i>Nanjing University of Information Science and Technology</i>

Each presentation, unless noted otherwise, is 20 min, plus 5 min for questions and discussion.

Environmental Science Session

27th April 2018

08:30-12:10

Time	Title	Speaker
Chair: Prof. Sue Grimmond		
8:30-8:55	Modelling turbulent flow and dispersion in urban areas	Omduth Coceal <i>University of Reading</i>
8:55-9:20	The US North-East Corridor Project: Baltimore/Washington Urban Greenhouse Gas Measurements	Xinrong Ren <i>University of Maryland</i>
9:20-9:45	Remote-sensing-based modelling for marine ecosystems: recent developments and opportunities	Shovonlal Roy <i>University of Reading</i>
9:45-10:10	Impacts of meteorological parameters and emissions on decadal and interannual variations of black carbon in China for 1980-2010	Yuhao Mao <i>Nanjing University of Information Science and Technology</i>
10:10-10:30	Tea Break	
Chair: Prof. Xinlei Ge		
10:30-10:55	Atmospheric Aerosols over the Tibetan Plateau: from Ground to the Stratosphere	Shang Liu <i>University of Science and Technology of China</i>
10:55-11:20	Application of nano-CCN counter for size-resolved analysis of the hygroscopicity and chemical composition of nanoparticles	Zhibin Wang <i>Zhejiang University</i>
11:20-11:45	Investigation of New Particle Formation Events in China Using Chemical Ionization Mass Spectrometry	Jun Zheng <i>Nanjing University of Information Science and Technology</i>
11:45-12:10	Nitrous oxide (N ₂ O) reducing denitrifiers inoculated into granular organic fertilizer mitigate N ₂ O emissions from soils	Weishou Shen <i>Nanjing University of Information Science and Technology</i>

Each presentation, unless noted otherwise, is 20 min, plus 5 min for questions and discussion.

13:30-15:30

Chair: Prof. Hong Liao

Open Discussions: research collaborations, joint research projects, etc.

Poster Presentation (Meteorology Session)

No.	Title	Presenter
M1	Advances Methods in Non-linear and Non-Gaussian Data Assimilation	Javier mezcua <i>University of Reading</i>
M2	Fragmentation and Melting of the Seasonal Sea Ice Cover	Adam Bateson <i>University of Reading</i>
M3	21st century Projected future vegetation changes over the Tibetan Plateau (TP)	Yan Bao <i>Nanjing University of Information Science & Technology</i>
M4	Reduced Interdecadal Variability of Atlantic Meridional Overturning Circulation under Global Warming	Jun Cheng <i>Nanjing University of Information Science & Technology</i>
M5	Impacts of Northern Tibetan Plateau on East Asian Summer Rainfall via Modulating Midlatitude Transient Eddies	Jiechun Deng <i>Nanjing University of Information Science & Technology</i>
M6	Interannual Variability of the Asian Subtropical Westerly Jet in Boreal Summer and Associated with Circulation and SST Anomalies	Yin Du <i>Nanjing University of Information Science & Technology</i>
M7	Evaluation of Warm Core Structures in Reanalysis and Satellite Datasets Using HS3 Dropsonde Observations: A Case Study of Hurricane Edouard (2014)	Si Gao <i>Nanjing University of Information Science & Technology</i>
M8	The Mid-Latitudal Influences on The Formation of a Monsoon Gyre	Xuyang Ge <i>Nanjing University of Information Science & Technology</i>
M9	Impact of Ozone Valley over Tibetan Plateau on South Asian High	Dong Guo <i>Nanjing University of Information Science & Technology</i>
M10	Enhanced Influence of Early-Spring Tropical Indian Ocean SST on The Following Early-Summer Precipitation over Northeast China	Tingting Han <i>Nanjing University of Information Science & Technology</i>
M11	Decadal Relationship between the Stratospheric Arctic Vortex and Pacific Decadal Oscillation	Zhu Hu <i>Nanjing University of Information Science & Technology</i>
M12	Changes in the Influence of the Western Pacific Subtropical High on Asian Summer Monsoon Rainfall in the Late 1990s	Yanyan Huang <i>Nanjing University of Information Science & Technology</i>

M13	Influence of the Tropical Atlantic Sea Surface Temperature Anomalies on the East Asian Summer Monsoon	Dachao Jin <i>Nanjing University of Information Science & Technology</i>
M14	Origins of the Decadal Predictability of East Asian Land Summer Monsoon Rainfall	Juan Li <i>Nanjing University of Information Science & Technology</i>
M15	Rapid Weakening of Tropical Cyclones in Monsoon Gyres over the Tropical Western North Pacific	Jia Liang <i>Nanjing University of Information Science & Technology</i>
M16	Contributions of the North Pacific Meridional Mode to Ensemble Spread of ENSO prediction	Jing Ma <i>Nanjing University of Information Science & Technology</i>
M17	An Enhanced Cloud Analysis System for the Initialization of Double-moment Microphysics	Yujie Pan <i>Nanjing University of Information Science & Technology</i>
M18	Multi-scale Cyclone Activity in the Changjiang River-Huaihe River Valleys During Spring and Its Relationship with Rainfall Anomalies	Yujing Qin <i>Nanjing University of Information Science & Technology</i>
M19	The Effects of ENSO on the Influence of IOD to the Interdecadal Variability of Winter Precipitation in Southeast China	Ruizi Shi <i>Nanjing University of Information Science & Technology</i>
M20	A Trend Towards a Stable Warm and Windless State of The Surface Weather Conditions in Northern and Northeastern China During 1961–2014	Bo Sun <i>Nanjing University of Information Science & Technology</i>
M21	Improvement of Genesis Potential Index for Western North Pacific Tropical Cyclones	Li Tao <i>Nanjing University of Information Science & Technology</i>
M22	Effects of Intraseasonal Oscillation on South China Sea Summer Monsoon Onset	Hui Wang <i>Nanjing University of Information Science & Technology</i>
M23	Direct ENSO Impact on East Asian Summer Precipitation in the Developing Summer	Na Wen <i>Nanjing University of Information Science & Technology</i>
M24	AMS2 All-sky Radiance Assimilation and Its Impact on the Analysis and Forecast of Hurricane Sandy With A Limited-Area Data Assimilation System	Chun Yang <i>Nanjing University of Information Science & Technology</i>

M25	The 10-40-Day Oscillation of the Zonal Wind in the Exit Region of The East Asian Subtropical Westerly Jet in the Winter Half-Year and Its Maintenance Mechanism	Suxiang Yao <i>Nanjing University of Information Science & Technology</i>
M26	The Strengthening Relationship between Eurasian Snow Cover and December Haze Days in Central North China after the Mid-1990s	Zhicong Yin <i>Nanjing University of Information Science & Technology</i>
M27	Validation of A Coupled Regional Climate-Vegetation Model RCM-CLM-CNDV in East Asia	Miao Yu <i>Nanjing University of Information Science & Technology</i>
M28	On the Linkage among Anomalously Strong Stratospheric Mass Circulation, Stratospheric Sudden Warming, and Cold Weather Events	Yueyue Yu <i>Nanjing University of Information Science & Technology</i>
M29	Indo-Pacific and the Summer Precipitation in South China	Chaoxia Yuan <i>Nanjing University of Information Science & Technology</i>
M30	Extreme Drought in the Recent Two Decades in Northern China Resulting from Eurasian Warming	Jie Zhang <i>Nanjing University of Information Science & Technology</i>
M31	Boreal Summer Synoptic-Scale Waves over the Western North Pacific in Multimodel Simulations	Haikun Zhao <i>Nanjing University of Information Science & Technology</i>
M32	Effects of the Madden-Julian Oscillation on 2 m Air Temperature Prediction over China during Winter in the S2S Database	Yang Zhou <i>Nanjing University of Information Science & Technology</i>
M33	Breakdown of the Relationship between Australian Summer Rainfall and ENSO Caused by Tropical Indian Ocean SST Warming	Zhiwei Zhu <i>Nanjing University of Information Science & Technology</i>

Poster Presentation (Environmental Science Session)

No.	Title	Presenter
E1	Simultaneous Electricity Production and Arsenic Mitigation in Paddy Soils by using Microbial Fuel Cells	Williamson Gustave <i>Xi'an Jiaotong - Liverpool University</i>
E2	Effect of Secondary Organic Aerosol Coating Derived from Amines on Soot Properties	Chao Chen <i>Nanjing University of Information Science & Technology</i>
E3	Seasonal light absorption properties of water-soluble brown carbon in atmospheric fine particles in Nanjing, China	Yanfang Chen <i>Nanjing University of Information Science & Technology</i>
E4	Observation and Simulation of fine particulate matter pollution incident during G20 in Hangzhou	Wei Dai <i>Nanjing University of Information Science & Technology</i>
E5	Carbon dioxide cobenefit of the Air Pollution Prevention and Control Action Plan in China: a case study in the Beijing-Tianjin-Hebei region	Zhenyu Lu <i>Nanjing University of Information Science & Technology</i>
E6	Study of the PM _{2.5} growth processes in two key regions of China	Jinjin Sun <i>Nanjing University of Information Science & Technology</i>
E7	Modeling Study of Sensitivity of Surface Ozone and Fine Particulate Matter to Meteorology in China	Zhihao Shi <i>Nanjing University of Information Science & Technology</i>
E8	Plasma degradation of volatile organic compounds	Wanqiu Tao <i>Nanjing University of Information Science & Technology</i>
E9	The transport pathways and potential sources of Excess Risk related to air pollutants in Nanjing: Seasonal variations	Fuzhen Shen <i>Nanjing University of Information Science & Technology</i>
E10	Characterization of black carbon-containing fine particles in Beijing during wintertime	Junfeng Wang <i>Nanjing University of Information Science & Technology</i>
E11	Formation and characteristics of secondary aerosols in an industrialized environment during cold seasons	Yangzhou Wu <i>Nanjing University of Information Science & Technology</i>
E12	Field campaign of New Particle Formation in 2016 Winter Huairou Beijing	Dongsen Yang <i>Nanjing University of Information Science & Technology</i>

Additional Information

Transportation

If you take a taxi to Jinling New Town Hotel, please show the following to the Taxi driver:

“Please take me to the Jinling New Town Hotel (488 Da Chang Yuan Xi Road, Liu He District, Nanjing). Thank you.”

请带我去南京金陵新城饭店（南京市六合区大厂园西路 488 号），谢谢！

If you take a taxi to Nanjing University of Information Science & Technology, please show the following to the Taxi driver:

“Please take me to Nanjing University of Information Science & Technology (219 Ningliu Road, PuKou District, Nanjing). Thank you.”

请带我去南京信息工程大学（南京市浦口区宁六路 219 号），谢谢！

Campus Map



Money

Local currency is the Chinese Yuan (RMB), with the approximate value 1 GBP = 9.01 RMB, 1 USD = 6.28 RMB (Rates in April, 2018). The exchange rates are subject to daily variations. Chinese currency is decimal. Notes come in 100, 50, 20, 10, 5, and 1 yuan denominations. Coins come in 10c, 50c denominations.

Major currencies can be exchanged at the hotels or banks nearby. The most common credit cards (e.g., Visa, MasterCard) are accepted at major hotels and stores.

Electricity

The electric current in China is 220V, 50/Hz, and the plugs below can be used. If your appliance's plug has a different shape, you may need a plug adapter.



Weather and Climate

For information on the temperature during April, daily weather forecasts, etc, please visit the websites either at: <http://www.cma.gov.cn/en/>.

Time

The China Standard Time (Beijing Standard Time) is eight hours ahead of UTC/GMT.