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The 7th CAS-NAS Forum for New Leaders in Space Science

**Jan 23-24, 2018
Guangzhou, China**

Organized by National Space Science Center

Sponsored by Bureau of International Cooperation,

Chinese Academy of Sciences

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I: Accommodation, Venues, Food & Technical Visit

Yanling Hotel:

Address: 29 Yanling Road, Tianhe District, Guangzhou

Yanling hotel is a four-star and modern multi-functional hotel which has a sound traffic as it takes about 10 minutes to reach Guangzhou East Railway Station, and 15 minutes to Guangzhou Railway Station, 30 minutes to Guangzhou Baiyun International Airport by car.



The city map:



Meeting Room:

Jan. 23: No. 2 Meeting Room on the third floor of Yanling Hotel

Jan. 24: No. 2 Meeting Room of Building 1, South China Botanical Garden



Food

Jan 22: Welcome Reception at the Western Restaurant on the ground floor of Yanling Hotel

Jan 23: Lunch at the restaurant on the second floor of Yanling Hotel

Jan 23: Dinner at Beiyuan Restaurant, a garden restaurant of Cantonese style

Jan 24: Lunch at the staff canteen of South China Botanical Garden

Jan 24: dinner at the restaurant on the second floor of Yanling Hotel

Breakfast is included in the room rate and will be served at the Western Restaurant on the ground floor starting from 7am to 10am.

Technical Visit:

Jan 24. South China Botanical Garden, Chinese Academy of Sciences



Local Contacts:

Accommodation and Food: Ms. LI Yinong, mobile: +86 150-1136-8870

Technical visit: Ms. YU Yan, mobile: +86 135-3877-0507

Pick up and other logistics: Mr. Xu Yongjian, mobile: +86-158-0102-8621

II: Agenda

Jan 22, 2018

19:00-20:30 Welcome Reception at the Western Restaurant on the ground floor of Yanling Hotel

Jan 23, 2018

INTRODUCTION:		
<i>Chair: WU Ji, NSSC, CAS</i>		
Time	Subject	Contributor
09:00-09:10	Opening Remark	WU Ji, NSSC, CAS, China
09:10-09:20	Opening Remark	Michael Moloney, NAS, USA
09:20-09:40	Invited Speech: Introduction to Insight-HXMT: China's first X-ray Astronomy Satellite	ZHANG Shuangnan, Institute of High Energy Physics, CAS, China
09:40-09:50	Discussion	
09:50-10:10	GW170817: The Beginning of the Age of Multi-messenger Astrophysics	Fiona HARRISON, California Institute of Technology, USA
10:10-10:20	Discussion	
10:20-10:50	<i>Group Photo and Coffee Break</i>	
SESSION I:		
<i>Chair: Fiona HARRISON, California Institute of Technology</i>		
10:50-11:10	GECAM: a dedicated telescope for the gravitational wave electromagnetic counterpart	XIONG Shaolin, Institute of High Energy Physics, CAS, China
11:10-11:20	Discussion	
11:20-11:40	Galactic Collisions: The Growth and Merger of Supermassive Black Holes	Vivian U, University of California, Riverside and Irvine, USA
11:40-11:50	Discussion	
11:50-13:30	<i>Lunch</i>	
13:30-13:50	The Netherlands - China Low Frequency Explorer (NCLE)	CHEN Linjie, National Astronomical Observatories, CAS, China
13:50-14:00	Discussion	

14:00-14:20	Synergies of Supernova Surveys In The 2020s and New Measurements of the Hubble Constant	Dan SCOLNIC, University of Chicago, USA
14:20-14:30	Discussion	
SESSION II:		
Chair: Shuangnan ZHANG, Institute of High Energy Physics, CAS		
14:30-14:50	Design TES for HUBS	WANG Guole, Tsinghua University, China
14:50-15:00	Discussion	
15:00-15:20	Cosmology with Massive Neutrons	LIU Jia, Princeton University, USA
15:20-15:30	Discussion	
15:30-15:50	Coffee Break	
15:50-16:10	Silicon-Tungsten track-on-board DARK Matter Particle Explorer	PENG Wenxi, Institute of High Energy Physics, CAS, China
16:10-16:20	Discussion	
16:20-16:40	Astrometric Exoplanet Detection with WFIRST	Peter MELCHIOR, Princeton University, USA
16:40-16:50	Discussion	
18:00-20:00	Dinner at Beiyuan Restaurant	

Jan 24, 2018

8:00-8:30 Bus transfer from hotel lobby to South China Botanical Garden

SESSION III:

Chair: David SMITH, Space Studies Board, NAS

Time	Subject	Contributor
08:30-08:50	Invited Speech: Oxygen ions in Geospace	FU Suiyan, Peking University, China
08:50-09:00	Discussion	
09:00-09:20	Invited Speech: Drivers of space weather that underly the geospace response to extreme events	Maura HAGAN, Utah State University, USA
09:20-09:30	Discussion	

SESSION IV:

Chair: FU Suiyan, Peking University

09:30-09:50	Probing the Solar Transition Region: Current Status and Future Perspectives	TIAN Hui, Peking University, China
09:50-10:00	Discussion	
10:00-10:30	<i>Coffee Break</i>	
10:30-10:50	The Physics of Diagnostics of Solar Active Regions and Eruptions	Mark C. M. CHEUNG, Lockheed Martin Solar and Astrophysical Laboratory, USA
10:50-11:00	Discussion	
11:00-11:20	Distribution of FTE on the dayside magnetopause under constant solar wind condition	SUN Tianran, National Space Science Center, CAS, China
11:20-11:30	Discussion	
11:30-11:50	The Magnetic Electron Ion Spectrometer on NASA's Van Allen Probes: Measurement technique and key observations	Seth G. CLAUDEPIERRE, Aerospace Corporation, USA
11:50-12:00	Discussion	
12:00-13:00	<i>Lunch</i>	

SESSION V:

Chair: Maura HAGEN, Utah State University

13:00-13:20	Introduction to the Advanced Space-based Solar Observatory (ASO-S)	FENG Li, Purple Mountain Observatory, CAS, China
13:20-13:30	Discussion	

13:30-13:50	Space weather as a complex system: Improving conductivity modeling for the satellite and assimilation age	Ryan McGRANAGHAN, UCAR/CPAESS, USA
13:50-14:00	Discussion	
14:00-14:20	3D Magnetic Reconnections during Solar Flares Observed by IRIS and SDO	LI Ting, National Astronomical Observatories, CAS, China
14:20-14:30	Discussion	
14:30-14:50	Investigating the Momentum Processes of Solar Eruptions Using Photospheric Magnetic Field Observations	SUN Xudong, University of Hawaii, USA
14:50-15:00	Discussion	
15:00-15:30	General Discussion	
15:30-15:40	Conclusion	Fiona Harrison, NAS, USA
15:40-15:50	Conclusion	WU Ji, NSSC, CAS, China
15:50-18:00	Introduction of South China Botanical Garden by Dr. YU Yan Guided Tour of South China Botanical Garden	

III: Participants:

	Name	Title	Institution
Delegates of CAS and NAS			
1.	WU Ji	Professor	National Space Science Center (NSSC), CAS
2.	Michael MOLONEY	Director for Space and Aeronautics	Space Studies Board (SSB), NAS
3.	FAN Quanlin	Assistant Director General	National Space Science Center (NSSC), CAS
4.	TONG Ting	Project Manager	Bureau of International Co-operation, CAS
5.	PENG Wanfeng	Division Director	Guangzhou Branch, CAS
6.	YU Yan	Deputy Division Director	South China Botanical Garden, CAS
Selection Committee			
7.	FU Suiyan	Professor	Peking University
8.	Maura HAGAN	Professor	Utah State University
9.	Fiona HARRISON	Professor	California Institute of Technology
10.	David SMITH	Senior Officer	Space Studies Board (SSB), NAS
11.	ZHANG Shuangnan	Professor	Key Lab of Particle Astrophysics, Institute of High Energy Physics, CAS
New Leaders			
12.	CHEN Linjie	Associate Professor	National Astronomical Observatories, CAS
13.	Mark C. M. CHEUNG	Staff Physicist	Lockheed Martin Solar and Astrophysical Laboratory
14.	Seth G. CLAUDEPIERRE	Senior Member of the Technical Staff	The Aerospace Corporation
15.	FENG Li	Professor	Purple Mountain Observatory, CAS
16.	LI Ting	Associate professor	National Astronomical Observatories, CAS
17.	LIU Jia	Postdoctoral fellow	Princeton University
18.	Ryan McGRANAGHAN	Research Fellow	University Corporation for Atmospheric Research/Cooperative Programs for the Advancement of earth System Science (UCAR/CPAESS)
19.	Peter MELCHIOR	Associate Research Specialist	Princeton University
20.	PENG Wenxi	Associate Professor	Institute of High Energy Physics, CAS
21.	Dan SCOLNIC	Hubble/KICP Fellow	University of Chicago
22.	SUN Tianran	Associate Professor	National Space Science Center (NSSC), CAS
23.	SUN Xudong	Research Scientist	University of Hawaii
24.	TIAN Hui	Assistant Professor	Peking University
25.	Vivian U	Postdoctoral Fellow	University of California

26.	WANG Guole	Post Doctorate	Tsinghua University
27.	XIONG Shaolin	Associate Professor	Institute of High Energy Physics, CAS
Other Participants			
28.	LI Yinong	Supervisor of International Affairs	National Space Science Center (NSSC), CAS
29.	SONG Tingting	Project Manager	National Space Science Center (NSSC), CAS
30.	XU Yongjian	Supervisor of International Affairs	National Space Science Center (NSSC), CAS
31.	ZHENG Xin	Project Manager	Guangzhou Branch, CAS
32.	ZHUANG Chunbei	Project Manager	National Space Science Center (NSSC), CAS

IV: Useful Information:

Guangzhou, the city:



Guangzhou, a prosperous metropolis full of vigor, is the capital city of Guangdong Province located along the south coastline of China. Being an excellent port on the Pearl River navigable to the South China Sea, and with fast accessibility to Hong Kong and Macau, the city serves as the political, economic, scientific, educational and cultural center in Guangdong area.

Being the first cities benefited from the Reform and Opening Up policy since 1978, the city acts as the pioneer of the economic development of the country, with numerous enterprises, which offer many job opportunities and make the city a heavily populated area. Guangzhou is especially prosperous in commerce, tourism, dining, finance and real estate. For travelers, the city shows much attraction through its famous sights such as the Five Ram Statue in Yuexiu Park, Pearl River and White Cloud Mountain.

Guangzhou is considered as the paradise for gourmands in south China. Its dish represents well the Cantonese Cuisine, which is one among the most famous eight Chinese cuisines. A large amount of time-honored restaurants and quality new restaurants serve various authentic local dishes, snacks and drinks.

Weather and Temperature:

In general, the temperature of Guangzhou in January ranges from 12°C to 20°C. According to weather forecast, the weather is generally fine with slight possibility of light rain.

South China Botanical Garden

South China Botanical Garden (SCBG), Chinese Academy of Sciences (CAS), formerly known as Institute of Agriculture and Forestry, Sun Yat-Sen University, was founded in 1929. At present, SCBG has 402 staff members, including 307 professional researchers.

As one of the top botany research institutions in China, SCBG has obtained abundant research achievements in the fields of ecology, systematic and evolutionary botany, plant resources, biotechnology, as well as landscape and gardening.

Among the largest comprehensive gardens in China, SCBG consists of three divisions: 1) a nursery and exhibition zone, designed mainly for plant ex-situ conservation with more than 14,000 plant taxa growing in 37 special living collections, including magnolias, bamboos, palms, gingers, orchids, medicinal plants, etc.; 2) a research and residential zone, featuring a herbarium with more than 1,100,000 plant specimens being conserved and a state of the art laboratory complex; and 3) Dinghushan National Nature Reserve, established in 1956, is the first national nature reserve in China.



