



**23rd TOPICAL CONFERENCE ON
RADIOFREQUENCY POWER IN PLASMAS**
May 14-17, 2019, Hefei, China

Abstract Booklet



Organizer:

The Institute of Plasma Physics, Chinese Academy of Sciences



Sponsor:

Chinese Academy of Sciences



Special Sponsor:

Spinner Telecommunication Devices (Shanghai) Co., Ltd.



Greetings from Chairman

Dear participants to RFPPC2019,

Welcome to Hefei, the city of science and education of China.

It is a great honor and pleasure for the Institute of Plasma Physics, Chinese Academy of Sciences (ASIPP) to organize the 23rd Topical Conference on Radiofrequency Power in Plasmas (RFPPC). It is the first time RFPPC conference comes to Asia. We expect its long tradition to be continued and abundant achievements to be enriched here.



As one of the most livable cities in China, Hefei represents a combination of history and modernity. With a history of more than 2000 years, it is a historic site famous for the Three Kingdoms Period and the hometown of Lord Bao. Nowadays, Hefei has become a prosperous city with a population of 8 million and an area of 11500 km². Its rapid development is characterized by its advanced high technology and scientific research.

On behalf of the LOC and ASIPP, I would like to extend our warm welcome to all of you. We sincerely hope that the conference will be a full success, and that you will have a happy memory in Hefei.

Baonian WAN

A handwritten signature in black ink that reads "B. N. Wan". The signature is written in a cursive, flowing style.

Director of ASIPP, Chairman of LOC

23rd Topical Conference on
RADIOFREQUENCY POWER IN PLASMAS
14th – 17th May 2019, Chinese Calligraphy Building, Hefei, China

Scope

Concerned with all aspects of electromagnetic waves in plasmas, including but not limited to applications in magnetic fusion devices, RF plasma sources, and studies of basic plasma wave physics and technology.

Topics

- Plasma wave interactions, such as heating, current generation, other 'phase space engineering,' diagnostics and plasma control
- Applications of RF power in fusion devices such as tokamaks, stellarators, spherical tori, reversed-field pinches and other confinement concepts
- Basic plasma wave physics
- Applications to plasma sources for materials processing, space propulsion, ionospheric and space plasmas

Location

RFPPC 2019 will be held in Hefei, a city located in the central region of China.

Hefei Xinqiao International Airport welcomes flights from major cities inside or outside China. From the two railway stations, all-weather high-speed trains can take you to Yellow Mountain (1h), Shanghai (2h), Hangzhou (2.5h), Beijing (4h), etc.

Venue

The conference will be held in 'Chinese Calligraphy Building' in the High-tech Zone of Hefei.

It has a convenient location, which is 30km to the airport, 12km to the railway stations, 3km to downtown, and 5km to the Anhui provincial museum.



Social Events

Welcome reception:

Tuesday 14th May 18h30, Ji Xian Hall, 3rd floor, Chinese Calligraphy Building

Conference dinner:

Thursday 16th May 18h30, Multi-functional banquet hall, Thai Village restaurant (next to Chinese Calligraphy Building)



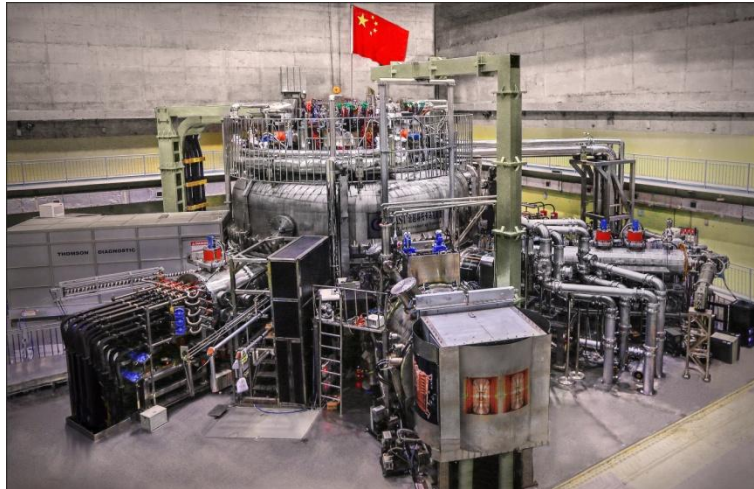
Technical Visit:

Friday 17th May, buses leave at 9h from Chinese Calligraphy Building

Institute of Plasma Physics, Chinese Academy of Sciences (ASIPP) was founded in September 1978 for the purpose of the peaceful utilization of fusion energy based on the tokamak approach. It is one of the most important laboratories on magnetically confined fusion in China, has built

HT-6B, HT-6M, HT-7, the first superconducting tokamak in China, and EAST, the world's first non-circle cross-section full superconducting tokamak.

Buses will leave at 9h from Chinese Calligraphy Building to the Science Island where ASIPP is located. Your visit will include a guided tour of EAST facility (LHCD system, ICRF system and ECRH system) and ITER manufacture workshops. Back for lunch in Chinese Calligraphy Building.



RFPPC2019 Committees

Program Committee:

BONOLI Paul (MIT/USA) **Chair**

SONG Yuntao (ASIPP/China) **Co-Chair**

ALBERTI / Stefano (EPFL / Switzerland)

BEAUMONT Bertrand (IO)

ONO, Masayuki (PPPL/USA)

EKED AHL Annika (CEA/France)

DENISOV Grigory (IAP/Russia)

KUBO Shin (NIFS/Japan)

KWAK Jong-gu (NFRI/Korea)

MAILLOUX Joelle (JET/UK)

ONGENA Jozef (LPP/ERM-KMS / Belgium)

PINSKER Robert (GA/USA)

TUCCILLO Angelo A. (ENEA/Italy)

LIU Yong (SWIP/China)

Local Organization Committee:

WAN Baonian – chair

DONG Shaohua

XI Yingkun - conference secretary

ZHANG Xingjun

DING Bojiang

WANG Xiaojie - scientific coordinator

LI Yaqin

Contact LOC: rfppc2019@ipp.ac.cn

Agenda

	Monday, 13 May	Tuesday, 14 May	Wednesday, 15 May	Thursday, 16 May	Friday, 17 May
9:00-9:30		Opening session	I2.1 R. Ochoukov	I3.1 A. Seltzman	EAST visit
9:30-10:00		Review J. M. Noterdaeme	I2.2 X. Gong	I3.2 K. Kirov	
10:00-10:30			Coffee break	Coffee break	
10:30-11:00		Coffee break	I2.3 S. Baek	I3.3 R. Goulding	
11:00-11:30		I1.1 N. Bertelli	I2.4 E. Lerche	I3.4 J. Chen	
11:30-12:00		I1.2 T. Goodman	I2.5 C. Moeller	I3.5 G. Urbanczyk	
12:00-12:30		I1.3 M. Goniche	Lunch	Lunch	Lunch
12:30-13:30		Lunch			
13:30-14:00		Free time	Business meeting	Free time	
14:00-14:30		Registration desk opens	Poster session 1	Poster session 2	Poster session 3
14:30-15:00					
15:00-15:30			Coffee break	Coffee break	Coffee break
15:30-16:00			I1.4 T. Tsujimura	I2.6 B. Lu	I3.6 X. Chen
16:00-16:30			I1.5 Y. Lin	I2.7 C. Lau	I3.7 B. DING
16:30-17:00	I1.6 X. Zhang		I2.8 B. Compernelle	I3.8 Spinner(-17:15)	
17:00-17:30	Group photo + PC meeting		I2.9 W. Helou	Closing session	
17:30-18:00	Free time		Free time	Free time	
18:00-18:30			Reception	Buffet dinner	Conference dinner
18:30-					

- ✧ **Meeting room:** He Ming Hall, 3rd floor of Chinese Calligraphy Building
- ✧ **Reception:** Ji Xian Hall, 3rd floor of Chinese Calligraphy Building
- ✧ **Lunch & Buffet dinner :** Venus Restaurant, ground floor of Chinese Calligraphy Building
- ✧ **Dinner:** Multi-functional Banquet Hall, Thai Village Restaurant (next to Chinese Calligraphy Building)
- ✧ **PC Meeting:** Lang Ya Hall, 3rd floor of Chinese Calligraphy Building

