

## Forum on The link between Solar wind, Magnetosphere, Ionosphere Beijing, July 6-7, 2016

### **Conveners**

Chi Wang	NSSC, China
Graziella Branduardi-Raymont	UCL, UK
Benoit Lavraud	CNRS, France
Tony Lui	APL, USA
Maurizio Falanga	ISSI-BJ, China

### **Local Organisation**

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### **Context of the Forum**

The aims of this ISSI-BJ FORUM are related to the scientific questions of how the Sun controls the Earth's magnetic environment and space weather. Recently the European Space Agency (ESA) and the Chinese Academy of Sciences (CAS) selected a joint small mission (SMILE to be launched in 2021) to trace these processes from beginning (the Sun) to end (the Earth's aurora) and investigate how the solar wind interacts with the Earth's magnetic environment in a way unmatched so far.

SMILE is a self-standing mission in a highly elliptical Earth orbit which will observe solar wind-magnetosphere coupling via simultaneous in situ solar wind/magnetosheath plasma and magnetic field measurements, X-ray images of the magnetosheath and magnetic cusps, and UV images of global auroral distributions defining system-level consequences. During this FORUM the participants will discuss the interaction between Earth's protective shield – the magnetosphere – and the supersonic solar wind. SMILE is expected to give an important contribution to our understanding of space weather and, in particular, the physical processes taking place during the continuous interaction between the solar wind and the magnetosphere.

### **The Forum will cover the following main themes:**

We aim to divide the meeting into 5 main sessions, including:

1. Overview to the Solar Wind Mag. and Ionosphere Coupling
2. Key science of the Solar wind, Magnetosphere, Ionosphere Coupling
3. Instruments and capability required
4. Synergies Complementary missions and International Collaborations

### **Product**

The output of the FORUM organized at ISSI-BJ will lead to the publication of the TAIKONG magazine, understandable also for “non-expert”. The content of the TAIKONG magazine (Forum report) reflects in a neutral way the Forum discussions and contributions from all the participants. On the following link the past publications can be find: [http://www.issibj.ac.cn/Publications/Forum\\_Reports/201404/t20140404\\_119042.html](http://www.issibj.ac.cn/Publications/Forum_Reports/201404/t20140404_119042.html)

### **Location**

The FORUM will be held at the International Space Science Institute-Beijing, China.

### **Attendance**

This will be by invitation only with about 20–25 participants.

### **Funding, Hotel & Visa**

ISSI-Beijing will provide the subsistence costs (hotel and a per diem to cover meals) for all participants (excl. self-support participants) but not the travel costs. There will be no registration fee for the Workshop. The hotel will be booked by ISSI-BJ. Therefore, in order to make the according hotel reservation, we kindly ask you to send your arrival and departure dates in Beijing as soon as possible directly to Lijuan En [enlijuan@issibj.ac.cn](mailto:enlijuan@issibj.ac.cn). In addition, in order to obtain the necessary visa to enter China, we highly recommend that you apply for a **tourist visa** – the application process is less complicate and a lot faster. If you want to apply for a business visa and therefore, need an official invitation letter, please send Lijuan En by e-mail the scanned copy of your passport. Furthermore, the following personal and passport data are needed from you:

- surname:
- given name:
- title:
- gender:
- date of birth:
- nationality:
- passport no.:
- name of your institute:
- arrival date and departure date (for booking hotel):
- the country and city you will apply for the visa:
- 1st time to China?:

You will then receive an invitation letter, which you can use for your visa application at your local Chinese Embassy. It is important that you file your visa application well in time. Once all the forms have been received in good order, the Chinese Embassy typically needs 4–5 working days to process the visa. Please be advised that all visitors to China are required to have a passport with at least six months of remaining validity and blank visa pages.

### **Schedule**

Invitations and First Circular:	February	2016
Second Circular and final program:	18 May	2016
Hotel deadline:	3 June	2016
Forum:	6–7 July	2016