First Circular

10th International Workshop on Long-Term Changes and Trends in the Atmosphere

(TREND-2018)

May 14-18 2018

Hefei, China

(http://trends2018.ustc.edu.cn/home.html)

The 10th International Workshop on "Long-Term Changes and Trends in the Atmosphere" will be held in Hefei, China from 14 to 18 2018. The workshop themes are supported by the trends working group II.F of IAGA, ICMA, IAMAS, IUGG, VarSITI and SCOSTEP. The workshop is hosted by University of Science and Technology of China, and the venue will be Swan Lake Hotel in Hefei.

Workshop website

http://trends2018.ustc.edu.cn/home.html

Workshop focus

Long-term changes to Earth's atmosphere are becoming more and more relevant to the future of our world and it is paramount that we quantify and understand changes occurring at all levels within the coupled atmospheric system. The increasing concentration of greenhouse gases, stratospheric ozone depletion, varying solar and geomagnetic activity, secular change of Earth's magnetic field, and changing dynamics propagating up from the troposphere are some of the possible causes of long-term changes in the stratosphere, mesosphere, thermosphere and ionosphere. The goals of this workshop are to review the current state of knowledge about trends in these atmospheric regions, and to discuss what research is necessary for resolving inconsistencies, reducing uncertainties, and achieving a deeper understanding of middle and upper atmospheric climate change – especially the relative influences of anthropogenic and solar effects. While the troposphere is not the main focus of the workshop, it is clear that it has a major role to play in middle and upper atmosphere trends; papers that demonstrate this relevance are also welcome. Topics on long-term variations of the atmosphere such as QBO, ENSO, MJO are all welcomed.

Call for abstracts

A formal call for abstracts will follow later. Abstract submission will open in late 2017.

Venue

The workshop will be hosted at Swan Lake Hotel in Hefei, walking distance from University of Science and Technology in China. Hefei is the capital city of Anhui Province in central China, north of the Yangzi River that divides the province into two parts. The University of Science and Technology of China is a national research university in Hefei, Anhui, China, under the direct leadership of the Chinese Academy of Sciences. It is a member of the C9 League formed by nine top universities in China. The hotel is adjencent to the Swan Lake.

100 rooms at Swan Lake Hotel has been reserved. Single rooms with en-suite bathrooms will be available for ~$60 per night and single rooms with shared bathroom facilities will be available for ~$50 per night. Both options include breakfast, internet, and VAT. If you require a double room, please contact the local organizing committee as soon as possible (e-mail: litao@ustc.edu.cn). You will be able to book accommodation at the time of registration for the meeting through our website. For pictures see:

http://www.swanlovers-hotel.com/index.html

Directions to Hefei and Swan Lake Hotel can be found here:

http://trends2018.ustc.edu.cn/travel.html

We will provide shuttles from and to the airport and railway station.

Social events

Monday evening banquet in the Swan Lake Hotel

Wednesday afternoon tour of Hefei and University of Science and Technology of China

Registration information

Standard registration will be available from $380 per person. Further details on reduced rates for early-career scientists and scientists from developing countries will be announced later. The registration fee will include lunches and dinners on Monday-Thursday and drinks reception. Registration for accompanying persons, which includes access to the dinner, drinks reception and walking tour, will be available from $75 per person.

Financial support

We will offer a reduced registration rate for early-career scientists and scientists from developing countries. In addition, we will offer a limited number of additional support packages on an application basis. Further details on eligibility and how to apply will be announced in late 2018.

Local Organizing Committee

Tao Li (Chair, USTC, China)

Jia Yue (Chair, Hampton University, USA)

Shunrong Zhang (Haystack Observatory, MIT, USA)

Jiuhou Lei (USTC, China)

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Ana Elias (Universidad Nacional de Tucuman, Argentina)

Jia Yue (Hampton University, USA)

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Previous workshops

1999, Pune, India

2001, Prague, Czech Republic

2004, Sozopol, Bulgaria

2006, Sodankyla, Finland

2008, Saint Petersburg, Russia

2010, Boulder, Colorado, USA

2012, Buenos Aires, Argentina

2014, Cambridge, UK

2016, kühlungsborn, Germany

Excursion: May 18-19 2018

Huang Shan (Yellow Mountain)

Extra fee paid on site

The Yellow Mountains is one of the most famous and beautiful mountainous areas in China. It was listed as a **World Heritage Site** by UNESCO in 1990. Its **spectacular natural scenery** includes oddly-shaped pines and rocks, and mystical seas of cloud.

- **Chinese: 黄山** Huángshān /hwung-shan/ *huang* means 'yellow' and *shan* means 'mountain(s)'
- **Things to do:** Enjoy hot springs, photography, and hiking
- **Must sees:** peculiar pines and rocks, seas of cloud, hot springs, sunrises and sunsets
- **Suggested visit:** 2 days
- **Location:** Huangshan Prefecture, Anhui Province, Eastern China, about 300 km (200 miles) west of Hangzhou and 500 km (300 miles) southwest of Shanghai. The scenic area is about 50 km (30 miles) north of Huangshan City.