

## **The International Space Weather initiative School on Space Weather and Global Navigation Satellite Systems**

8 – 12 October 2018, Baku, Azerbaijan

The International Space Weather Initiative (ISWI) School on Space Weather and Global Navigation Satellite Systems (GNSS) will be held in Baku, Azerbaijan on 8 – 12 October 2018. The School will be an excellent learning and enrichment opportunity for scientists and graduate students from Asia and Eastern Europe. The purpose of the school is to advance the topics of space weather and GNSS to scientists, engineers and graduate level students who are pursuing doctorate (PhD) in solar physics, space science and engineering. Some Masters level students who have already some exposures in solar/space physics may also apply. Some financial assistance will be provided to students and scientists attending the school.

Space Weather is the variation in Sun energy emissions, solar wind, magnetosphere, ionosphere and thermosphere, which can influence the performance and reliability of a variety of space borne and ground-based technological systems. As such Space Weather is recognized as the cause of significant errors experienced by GNSS and its applications, including Satellite Based Augmentation Systems (SBAS) and Ground Based Augmentation System (GBAS) and their users.

The School is hosted by the Science Development Foundation (SDF) under the President of the Republic of Azerbaijan and Shamakhy Astrophysical Observatory (ShAO) of the Azerbaijan National Academy of Sciences and sponsored by the International Committee on GNSS (ICG) through the United Nations Office for Outer Space Affairs (UNOOSA), ISWI and the the Scientific Committee on Solar Terrestrial Physics (SCOSTEP). SDF will cover local expenses including domestic transportation, School materials, so on.

Further details on the School schedule and the on-line applications for financial support are available at: <http://www.sdf.gov.az/conferences/iswischool2018>

### **Deadlines:**

Last date of online applications: 15 July 2018  
Selection of participants: 15 August 2018

### **Tentative List of Lectures:**

- Solar Physics
- Sun-Earth connection
- Transient Disturbances from the Sun (CMEs, Flares, Energetic Particles)
- Solar Wind and Corotating Interaction Regions
- Ionosphere and ionosphere modelling
- Magnetosphere/Ionosphere coupling
- Introduction to GNSS
- GNSS systems and signals
- Space Weather and its effects on society
- GNSS applications affected by Space Weather
- Hands on: Using CME data base: [cdaw.gsfc.nasa.gov](http://cdaw.gsfc.nasa.gov)
- High Energy Cosmic Neutrinos and Positrons
- Shock Waves
- Nano-satellites
- Magnetosphere
- Space Physics and Space Plasma
- Solar Activity and Climate Changes