

Announcement of the ICTP-SCOSTEP-ISWI Workshop on the Predictability of the Variable Solar-Terrestrial Coupling (PRESTO)

Date: May 29 - June 2, 2023 (1-day school and 4-day workshop)

Place: International Centre for Theoretical Physics (ICTP), Trieste, Italy

Website: <https://indico.ictp.it/event/10176/>

Important Deadlines:

Online application deadline (abstract, registration, travel support): February 28 (Tue), 2023

Registration fee: free

PRESTO (PREdictability of the variable Solar-Terrestrial cOupling) is a science program that seeks to improve the predictability of energy flow in the integrated Sun-Earth system on various times scales from milliseconds to centuries by promoting international collaborative efforts. PRESTO is sponsored by SCOSTEP, the Scientific Committee on Solar-Terrestrial Physics. This workshop will aim to gather eminent scientists from solar, magnetospheric, ionospheric and atmospheric physics communities to discuss and deliberate on the cutting-edge sciences related to the PRESTO program. The workshop consists of one-day school at the beginning for students and early-career scientists followed by a 4-day workshop.

Session Structures

1. Observations and modelling of solar eruptions, solar wind and SEPs from Sun through interplanetary space
2. Prediction of solar transients, streams/SIRs and SEP from Sun to geospace
3. Effect of space weather on the Earth's ionosphere, thermosphere, and magnetosphere system
4. Influence of the lower atmosphere on the mesosphere, thermosphere, and ionosphere
5. Solar forcing specification and impacts on the atmosphere and climate
6. Precipitating energetic particles and their effects on atmosphere
7. Predictability of the solar cycle

Organizers: Sharafat Gadimova, Nat Gopalswamy, Keith Groves, Ramon Lopez, Bruno Nava, and Kazuo Shiokawa

SOC members: Organizers, Daniel Marsh, Eugene Rozanov, Jie Zhang, Allison Jaynes, Emilia Kilpua, Spiros Patsourakos, Loren Chang, Duggirala Pallamraju, Nick Pedatella, Odele Coddington, Jie Jiang, and Stergios Misios

Sponsors:

Scientific Committee on Solar-Terrestrial Physics (SCOSTEP)

International Centre for Theoretical Physics (ICTP)

The International Space Weather Initiative (ISWI) of the United Nations (UN)

International Committee on Global Navigation Satellite Systems (ICG)

Boston College

Japan Society for the Promotion of Science (JSPS):

ISEE, Nagoya University