

Abstract submission is now open for the 12th European Space Weather Week (23-27 Nov 2015, Belgium).

*** Advances in instrumentation and future missions for space weather science or operation**

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Session Abstract:

Space based and ground based observations are required to satisfy many of the space weather service user needs and to allow new scientific research underpinning space weather. Scientific requirements are usually driven by the need to discover new observational features in the data. Instruments needed for operational space weather can usually benefit from scientific heritage but are driven by requirements very different from most scientific missions and therefore also require new development.

Contributions are solicited on topics relevant to future instruments and mission developments for either scientific research or operational space weather including, but not limited to, lessons learned from past and current instruments, possible new instrument or mission concepts “including nano-satellites, future needs and opportunities, and international collaborations.

*** Session - Solar Storms: Flares, CMEs and Solar Energetic Particle (SEP) events**

Nicole Vilmer (LESIA Paris Obs.); Olga Malandraki (Nat. Obs. of Athens); Manolis Georgoulis (Academy of Athens)

This session will cover topics from the SWWT Topical Working Group Drivers of Space Weather (solar storms). The program will consist of invited talks (15min), of oral contributions and posters about the understanding of

particle acceleration and transport processes at the Sun and in the inner heliosphere,
onset and propagation of CMEs in the interplanetary medium and subsequent interactions with the Earth's magnetosphere,
impact of flares (UV radiation, particles) on the Earth's atmosphere.

The session will also aim at discussing the research which should be performed in each domain to improve the forecasts of flares, CMEs and SEPs.