

ISWI/ILWS/SCOSTEP Building Space-Weather-literate Communities

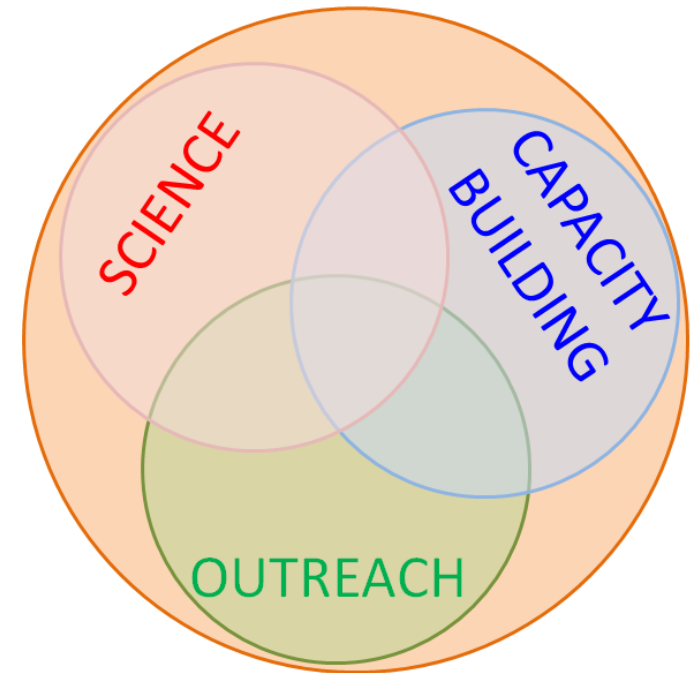
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ISWI, ILWS, & SCOSTEP

International Organizations interested in complementary aspects of the Sun – Earth System

- ISWI: International Space Weather Initiative (**ground**)
- ILWS: International Living with a Star (**space**)
- SCOSTEP: Scientific Committee on Solar Terrestrial Physics (**long-term science projects**)
- All three organizations address science, capacity building and outreach to various degrees



Thoughts for the Panel

- IREDI Space Weather World Relay: Engaging students around the globe in collaborative space weather monitoring and experimental research forecasting (practicum for undergraduate space weather programs)

- ISWI/SCOSTEP schools have been providing advanced knowledge on the Sun-Earth system since 2005, thus creating a space-weather-literate communities throughout the world. Such communities are need to appreciate the importance of space weather forecast and to realize practical benefits in their countries.

- Successes and challenges in establishing undergraduate and graduate space weather programs

The close association between ISWI and UN has helped member countries realize the importance of space weather. Space Weather is a permanent agenda of the Science and Technology Subcommittee of the United Nations Committee on Peaceful Uses of outer Space (UNCOPUOS) and ISWI is an integral part of it. SWx advocacy is possible at the UN level via ISWI. Regional Space Science Centers of UNOOSA offer graduate level courses. It is possible to utilize these vehicles to develop SWx curriculum.

Thoughts for the Panel

- Collaborative development of modular repository of ready-to-use space weather educational material

Tens of hours of lectures from international experts given at the ISWI/SCOSTEP schools are available online at iswi-secretariat.org

- CCMC as a resource for graduate student research projects. CCMC Student Research Contest.

NOAA/SWPC folks have been suggesting the inclusion of Space Weather service at the ISWI/SCOSTEP schools. The next school in India (Nov 7-17) is planning to use CCMC package to impart forecast experience.

- Benefits and funding opportunities for hands-on IREDI Mini-Schools attached to Workshops/Conferences and Traveling IREDI Bootcamps hosted by universities world-wide.

Benefits depend on the level of space weather activity in each country. Space weather vulnerability is different for different countries These need to be identified. SCOSTEP provides support for education/outreach activities via the SCOSTEP VISITING SCOLARSHIP Program.

CCMC Synergy

- Models already used for ISWI/SCOSTEP investigations
- CCMC education packages can be reengineered to be introduced in Space Science Schools
- CCMC staff as lecturers in Space Science Schools and ISWI workshops
- ISWI data are available for CCMC use (e.g. CALLISTO on type II bursts)