INTERNATIONAL SCHOOL ON

OPERATIONAL SPACE WEATHER: UNDERSTANDING, MONITORING, FORECASTING AND IMPACTS

10-14 May 2027

L'Aquila-ITALY

PROGRAMME AND LECTURERS

Peter P. Gallagher (DIAS Dunsink Observatory, Dublin, Ireland)
The Sun from a Space Weather Perspective
Solar cycle activity and its forecasting

Manuela Temmer (University of Graz, Austria)
Flares and CMEs and their forecasting

Claudio Corti (CCMC, University of Hawaii)
Solar wind transients, Solar Energetic Particles and their forecasting

Alberto Pellizzoni (Istituto Nazionale di Astrofisica, Italy)
Radio astronomy for Space Weather

Petra Vanlommel (Solar-Terrestrial Centre of Excellence, Bruxelles, Belgium)
Lab activity (focus on solar and heliospheric weather)

Domenico Di Mauro and Stefania Lepidi (Istituto Nazionale di Geofisica e Vulcanologia, Italy)
The Geomagnetic Field and the Magnetosphere

Dedong Wang (GFZ-Potsdam, Germany)
The Solar Wind – Magnetosphere Coupling, Radiation Belts, Plasmasphere

Luca Spogli (Istituto Nazionale di Geofisica e Vulcanologia, Italy)
The Terrestrial Ionosphere and its Response to Space Weather

Mario Bisi (STFC Rutherford Appleton Laboratory, Oxfordshire, UK) **(TBC)**
Effects of space weather on technological systems and society

Claudio Corti (CCMC, University of Hawaii)
Human health risks from radiation

Yana Maneva (Royal Observatory of Belgium)
Lab activity (focus on magnetosphere, ionosphere, aviation, and ground based impact)

Mauro Messerotti (Università di Trieste-DFis and Istituto Nazionale di Astrofisica, Italy)
Space economy



APPLICATIONS DUE BEFORE
21 February 2027

VIA THE WEBSITE
astrogeofisica.it/opsw

info@astrogeofisica.it

SCHOOL RATIONALE

This school invites participants to explore Space Weather from its physical foundations to operational forecasting and societal applications. Spanning the solar–heliospheric, magnetospheric and ionospheric domains, the programme connects scientific understanding of the Sun–Earth environment with the protection of space assets, critical services and human health, economic risk reduction and emerging opportunities in the Space Economy. Exchanges between research and operations (R2O and O2R) will provide a unifying perspective throughout the school.
Lectures will be paired with hands-on laboratory sessions and practical applications, enabling participants to connect physical processes with observations and forecasting challenges.

Topics will include solar radio emissions and their links to eruptive phenomena, exploring how measurements from new instruments can support Space Weather monitoring and forecasting.
The school welcomes PhD students and early-career researchers in space physics, planetary sciences, aerospace engineering and related disciplines, as well as early-career professionals from monitoring agencies and relevant industries. It offers an opportunity to develop practical skills, exchange ideas and discover pathways into a field where scientific advances meet pressing societal needs.

GENERAL INFORMATION

The School will be held in L'Aquila at the Università degli Studi dell'Aquila.
Applications, including a brief curriculum vitae, are due before 21 February, 2027.
See the website https://www.astrogeofisica.it/opsw for details.

The fee of 1000 Euro **includes board and lodging** in shared double rooms at nearby hotels and B&Bs and social events. Some financial support will be available for a limited number of students on request.
Applications will be evaluated by the Board of Directors of the School. All applicants will be notified by e-mail.

BOARD OF DIRECTORS

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SCHOOL SECRETARIAT c/o Dipartimento di Scienze Fisiche e Chimiche, Università L'Aquila (Italy). **Email**: info@astrogeofisica.it **Website**: https://www.astrogeofisica.it/opsw

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