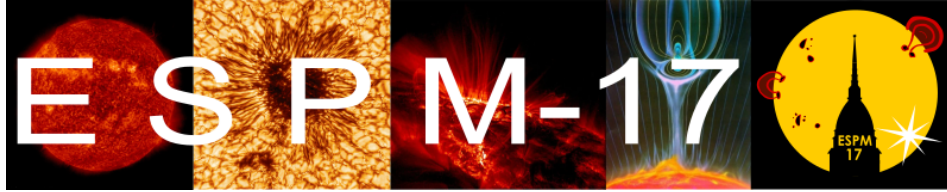


ESPM-17 Outreach Events



Report of Contributions

Contribution ID: 1

Type: **Talk**

The SunSketcher eclipse experience

Thursday 12 September 2024 13:30 (5 minutes)

The 2024 April 8 total eclipse saw success with the “SunSketcher.org” project. In this effort all of the development was done by a diverse and highly interdisciplinary group of undergraduate students at Western Kentucky University. Their SunSketcher smartphone app was then taken up by tens of thousands of volunteers, aided by NASA publicity, and we are analyzing the data now. The basic scientific result will be an improved measure of solar oblateness, an issue of importance since the 19th century and the subject of later work by Einstein and Dicke.

Primary author: HUDSON, Hugh (UC Berkeley / U of Glasgow)

Co-author: EMSLIE, Gordon (Western Kentucky University)

Presenter: HUDSON, Hugh (UC Berkeley / U of Glasgow)

Session Classification: Outreach in Solar Physics

Contribution ID: 2

Type: **Talk**

Chat s astronomkou -outreach activities in Czech Republic

Thursday 12 September 2024 13:40 (5 minutes)

In this presentation we would like to introduce Chat s astronomkou, a series of outreach activities, mostly organised in the framework of the International Day of Women and Girls in Science and extending to International Women's Day. It is a project that aims to show the variety of topics that are researched in the Astronomical Institute of the CAS, so it is a joint effort of female scientists and students working at the different departments of the Institute. We have held online chats open to the public, private chats with schools and, more recently, even live streaming. We would like to share our experiences and enrich them with comments from other colleagues, or even start new outreach collaborations.

Primary author: GARCÍA RIVAS, Marta (Astronomical Institute of the CAS)

Co-authors: Dr ZEMANOVA, Alena (Astronomical Institute, Czech Academy of Sciences); KASPAROVA, Jana

Presenter: GARCÍA RIVAS, Marta (Astronomical Institute of the CAS)

Session Classification: Outreach in Solar Physics

Contribution ID: 3

Type: **Talk**

SunSpaceArt –The Art and Science of Creativity

Thursday 12 September 2024 13:25 (5 minutes)

The SunSpaceArt project, funded by STFC, comprises a team of scientists and artists. Over the past six years, we have run cross-curriculum (science, art, literacy) STEAM (STEM+Arts) workshops at hundreds of primary schools across the UK, especially those most in need of science enrichment. We have also run ‘drop-in’ activities for families at Science Festivals. These activities reinforce science learning, ignite curiosity and develop creativity. The feedback has been extremely positive. We encourage other solar outreach providers across Europe to explore possibilities for working more closely with the Arts.

Primary author: Prof. MASON, Helen (University of Cambridge)

Co-author: YARDLEY, Stephanie (MSSL/UCL)

Presenter: YARDLEY, Stephanie (MSSL/UCL)

Session Classification: Outreach in Solar Physics

Contribution ID: 4

Type: **Talk**

The Sun at a glance: An International Infographic Competition to Teach Science at School

Thursday 12 September 2024 13:45 (5 minutes)

In 2021, the European Solar Telescope (EST) consortium organized the international competition “The Sun at a glance” to show the potential of the Sun for teaching science at school. Here we briefly describe the main organizational aspects, and the results of this activity.

The competition was designed to encourage students to research about the Sun and present their results in the form of an infographic. The activity was open to small groups of students in the age ranges 14-15 and 15-16, led by a teacher. The prizes included a visit to Teide Observatory in Tenerife (Spain) for the two teams producing the best designs. A dedicated website (www.est-east.eu/contest) was set up to provide the participants with general information, the announcement poster, the official rules, and the national points of contact.

This activity raised extraordinary interest in the European education community. A total of 2,859 students and 303 teachers from 242 schools signed up for the competition, representing 16 European countries. The infographics they submitted were used to build the EST Solarpedia, a comprehensive solar encyclopedia hosted on the EST website. The EST Solarpedia is a unique educational resource open to the teaching community and the general public, a legacy that will stand for years to come.

Primary author: MURABITO, Mariarita (Istituto Nazionale di Astrofisica (INAF))

Co-author: BELLOT RUBIO, Luis (Instituto de Astrofisica de Andalucia (IAA-CSIC))

Presenter: MURABITO, Mariarita (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Outreach in Solar Physics

Contribution ID: 5

Type: **Talk**

Public outreach at the Max Planck Institute for Solar System Research

Thursday 12 September 2024 13:35 (5 minutes)

In this talk we present outreach activities of the Max Planck Institute for Solar System Research in Goettingen (MPS, Germany). The MPS regularly organizes outreach events, such as the “night of science” in cooperation with the University of Goettingen, guided tours and public talks for MPS visitors, and “Max Planck goes to school”, and also new approaches, like cinematic documentaries, are explored.

Moreover employees of the MPS take part in external events. We would also like to address how to deal with controversial public opinions about current scientific topics. In addition we aim to get in contact with young school students to provide an insight into the scientific life as a researcher.

Primary authors: HÖLKEN, Johannes (Max Planck Institut für Sonnensystemforschung); Mr NOELKE, Jonathan (Max Planck Institute for Solar System Research); ZESSNER, Lisa-Marie (MPS Goettingen); ONDRATSCHEK, Patrick (MPS Göttingen)

Presenters: HÖLKEN, Johannes (Max Planck Institut für Sonnensystemforschung); Mr NOELKE, Jonathan (Max Planck Institute for Solar System Research); ZESSNER, Lisa-Marie (MPS Goettingen); ONDRATSCHEK, Patrick (MPS Göttingen)

Session Classification: Outreach in Solar Physics

Contribution ID: 6

Type: **Talk**

Sorvegliati Spaziali - translating Solar Activity into Public Knowledge

Thursday 12 September 2024 14:00 (5 minutes)

Sorvegliati Spaziali –looking up to Space to protect our Planet–is a project of the Italian National Institute for Astrophysics (INAF) and represents one of the world’s first coordinated, complete and coherent public awareness campaign on the Planetary Defense by a research body.

From near Earth asteroids and comets to space weather, from meteors and meteorites to space debris, Sorvegliati Spaziali aims to provide scientific and cultural knowledge to convey how our Planet is exposed to various natural and man-made threats in Space, as well as our current plans for response to them, meanwhile rowing against the many fake news about Planetary Defense that has biased the collective imagination.

In the field of space weather, the project publishes up-to-date news on solar activity and research in this domain.

In addition, it provides a solar bulletin service with multiple cadences, through daily and monthly solar bulletins, offering detailed and timely analyses of solar conditions.

Sorvegliati Spaziali also developed an augmented reality app and brochure of the project which, among other experiences, allows the user to simulate a dynamic and colorful aurora whose sound can also be heard thanks to the sonification of emitted radio waves into sound waves, offering at the same time in-depth content.

Finally, Sorvegliati e Spaziali has collaborated with the RAI - Radiotelevisione italiana, on the scicomm program for young audiences “Meteo Spazio”. In this collaboration, the project has contributed various contents, including a weekly solar bulletin specifically tailored for kids (age 8-12).

Primary authors: GALLIANI, Marco (Istituto Nazionale di Astrofisica (INAF)); GUIDETTI, Daria (Istituto Nazionale di Astrofisica (INAF))

Co-authors: BOCCATO, Caterina (Istituto Nazionale di Astrofisica (INAF)); COERO BORGA, Davide (Istituto Nazionale di Astrofisica (INAF)); Dr GARDIOL, Daniele (Istituto Nazionale di Astrofisica (INAF)); SOLETTA, Paolo (Istituto Nazionale di Astrofisica (INAF))

Presenter: GALLIANI, Marco (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Outreach in Solar Physics

Contribution ID: 8

Type: **Talk**

CHE SOLE CHE FA : educational Space Weather bulletins by SWELTO

Thursday 12 September 2024 13:55 (5 minutes)

The Solar Physics Group at the INAF-Turin Astrophysical Observatory (OATo) is involved in many Space Weather (SW) projects and missions. In particular, is leading the local project SWELTO-Space WEather Laboratory in Turin Observatory, aimed at the development of new tools and measurements of interest for SW.

After a period of testing based on the creation of weekly SWELTO SW reports, in April 2022, we began a collaboration with the INAF Educational project “Sorvegliati Spaziali”(PI Daria Guidetti) to provide monthly bulletins. The experimental edition was released on the “SWELTO TV” YouTube channel. In this test phase, we posted 12 videos with a duration of 3–7 min regarding the observed solar activity during different phases of the solar cycle, achieving an average of 90 views each. The new series of monthly bulletins entitled “Che Sole che fa” is now published (in Italian language) on the “Sorvegliati Spaziali” website and reposted by MEDIA-INA F TV, the institutional YouTube channel with more than 46,000 subscribers. The SWELTO bulletins were also announced on TV by TG Leonardo, the national science and environment newscast.

At July 2024, we published 28 monthly videos starting from April 2022, achieving a total of 36,883 views, an average of 1317 views for each video, and a peak of 3860 views for a single video. The same team developed an initiative specifically for 17th European Solar Physics Meeting called “Sapore di Sole”, based on short (3 minutes) educational videos covering the main topics of Solar Physics and SW.

Primary author: CORA, Alberto (Istituto Nazionale di Astrofisica (INAF))

Co-authors: Dr BEMPORAD, Alessandro (Inaf-OATo); Dr GUIDETTI, Daria (INAF); Dr ABBO, Lucia (Inaf-OATo); Dr AMATO, Emanuele (Inaf-OATo); Dr BIONDO, Ruggero (Inaf-OATo); Dr FRASCELLA, Francesco (Inaf-OATo); Dr FRASSATI, Federica (Inaf-OATo); Dr GIORDANO, Silvio (Inaf-OATo); Dr HAUDEMAND, Hervé (Inaf-OATo)

Presenter: CORA, Alberto (Istituto Nazionale di Astrofisica (INAF))

Session Classification: Outreach in Solar Physics

Contribution ID: 9

Type: **Talk**

Press and public engagement surrounding the geomagnetic storm of May 2024

Thursday 12 September 2024 13:50 (5 minutes)

I will talk briefly about the different types of outreach and public engagement opportunities that arose due to the recent severe geomagnetic storm and space weather effects that occurred in May 2024. I will discuss how to handle these opportunities and give advice, particularly for early career researchers, to those who are interested in participating in and developing outreach activities on space weather. I will finish with what we can do as a community to enable maximum impact from these activities.

Primary author: YARDLEY, Stephanie (MSSL/UCL)

Presenter: YARDLEY, Stephanie (MSSL/UCL)

Session Classification: Outreach in Solar Physics

Contribution ID: **10**

Type: **not specified**

Panel discussion

Thursday 12 September 2024 14:05 (20 minutes)

Presenters: MASON, Helen (University of Cambridge); HUDSON, Hugh (UC Berkeley / U of Glasgow); YARDLEY, Stephanie (MSSL/UCL)

Session Classification: Outreach in Solar Physics