

A large, stylized graphic on the left side of the poster. It consists of a bright yellow circle representing the sun, with a dark blue outline of a person standing in front of it. The person's legs are represented by a jagged, zig-zag line, and a long, solid blue shadow is cast to the right of the figure.

Series of online talks
10-12 May 2022
Each evening from
18:00 - 19:30 (CEST)



Daylight Awareness Week

Journey of Light:
from Space to our Cells

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🐦 [@DaylightAcad](https://twitter.com/DaylightAcad)
[#DaylightWeek](https://twitter.com/DaylightAcad)



Day 1

Tuesday, 10 May 2022

18:00 – 19:30 (CEST)

The Sun, Star of the Stars

This year, the Daylight Awareness Week takes us on a long journey to explore how light travels from the sun into our cells. It all starts in the core of our nearest star, the sun. The light and energy that make life on Earth possible originate from a nuclear fusion process there and illuminate our planet after passing through the atmosphere of the sun and ours. While a heliophysicist will guide us through the different layers of the sun and its intricacies, an expert in atmospheric and climate science will shed light on the phenomena of global dimming and brightening, taking place in our atmosphere, and causing decadal variations in the amount of sunlight reaching the Earth's surface. Star of the stars, the sun has fascinated and been the object of worship since the dawn of time. To conclude the first stage of our journey, we will take a leap into the past with a specialist of archaeoastronomy, who will talk about the role of the sky, and in particular the sun, in ancient cultures and their architecture.

Talks followed by a Q&A session

With

[Register here](#)

- **Dr C. Alex Young**
Solar Astrophysics
NASA Heliophysics Science
Division, USA
- **Prof. Martin Wild**
Atmospheric and Climate
Science, ETH Zürich, Switzerland
- **Prof. Giulio Magli**
Archaeoastronomy
Faculty of Civil Architecture,
Politecnico di Milano, Italy

Moderated by

- **Prof. Markus Kalberer**
Department of Environmental
Sciences, University of Basel,
Switzerland





Day 2

Wednesday, 11 May 2022

18:00 – 19:30 (CEST)

Sunlight on Earth

After its journey through space, sunlight arrives on Earth. In addition to illuminating and warming us, daylight plays a multitude of essential roles in our direct environment. Firstly, it is a powerful source of renewable energy whose potential is not yet fully exploited. While technology is constantly evolving to make the most of the sun's energy, plants are experts in this and make optimal use of this energy to produce food. The second contribution in this session will be dedicated to the role of daylight in forest ecology. Finally, our stopover on Earth will also be an opportunity to reflect on the use of natural light in buildings. This can affect our physiological and psychological health and has comfort, behavioural, economic, and environmental consequences.

Talks followed by group discussions and networking

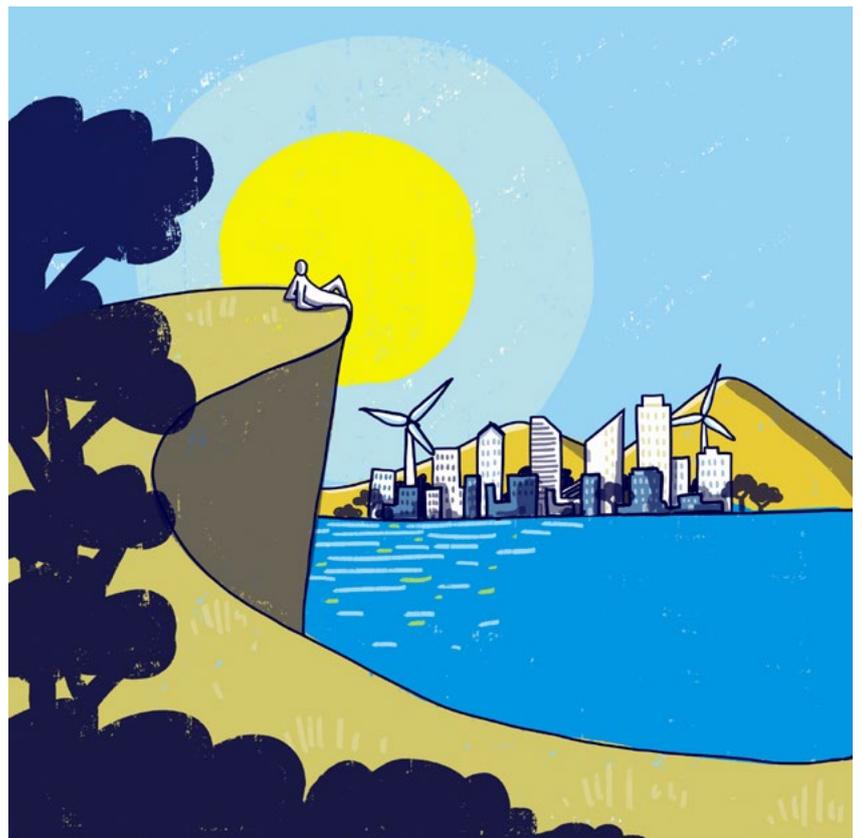
[Register here](#)

With

- **Prof. Richard Perez**
Renewable and Solar Energy
University of Albany, USA
- **Prof. Harald Bugmann**
Forest Ecology
ETH Zürich, Switzerland
- **Prof. Marilyne Andersen**
Sustainable Architecture,
Daylighting Strategies
EPFL, Lausanne, Switzerland

Moderated by

- **Prof. Jean-Louis Scartezzini**
Solar Energy and Building
Physics Laboratory,
EPFL Lausanne, Switzerland





Day 3

Thursday, 12 May 2022

18:00 – 19:30 (CEST)

Effects of Daylight at the Molecular Level

The journey of light continues, this time in the infinitely small. What are the effects of daylight at the molecular level? Our three guest speakers will give us very diverse answers to this question. One important biochemical process resulting from our exposure to daylight is the production of vitamin D in our skin, which is essential for a performant immune system and good health. Daylight also has great potential for photochemical treatments. Our second expert will tell us how such treatments can be powered by daylight for ophthalmic applications. The third and last topic will take us to the field of artificial photosynthesis. This promising approach in chemistry aims to generate hydrogen – as a green and sustainable fuel – using water and sunlight. A very topical theme in the face of constantly growing energy demand.

Talks followed by a Q&A session

With

[Register here](#)

- **Prof. Michael F. Holick**
Endocrinology,
Photobiology of Vitamin D
Boston University, USA
- **Dr Sabine Kling**
Vision Sciences,
Photochemical Treatments
ETH Zürich, Switzerland
- **Prof. Greta R. Patzke**
Chemistry,
Artificial Photosynthesis
University of Zurich, Switzerland

Moderated by

- **Prof. Bernhard Wehrli**
Surface Waters Research &
Management,
Eawag Dübendorf, Switzerland

