



# Short-term Training for technical staff and scientists

## In-field optical characterization of parabolic trough modules by VISfield

**Location:** *Italy* – ENEA-Casaccia (Rome), in presence

**Date:** *6<sup>th</sup> – 7<sup>th</sup> November 2023*

**Target group:** The course is designed for engineers, researchers and representatives from European CSP industry and companies who want to be trained on the in-field optical characterization of parabolic trough modules by VISfield

**Objective:** This course focuses on the VISfield approach in both translational and rotational mode for evaluating the intercept factor.

**Trainers:** ENEA scientists

The training will include visits, procedures, standards and best practices theoretical and experimental ‘hands-on’ experience and cover the following topics:

- Visual Inspection System: innovation and benefit
- VIS instrument family
- VISfield in translational and rotational mode: pros and cons



## **Agenda**

### First day

<b>08:30 - 09:15</b>	<b>Arrival-Registration and delivery of documentation</b>
<b>09:15 - 09:30</b>	<b>Training overview and goals</b>
<b>09:30 - 09:45</b>	<b>Visual Inspection System principles</b>
<b>09:45 - 10:30</b>	<b>Overview of the several instruments based on VIS</b>
<b>10:30 - 10:45</b>	<b>- Coffee break -</b>
<b>10:45 - 12:00</b>	<b>VISfield: the instrument for parabolic trough modules. Translational and rotational modes, pros and cons.</b>
<b>12:00 - 13:00</b>	<b>- Lunch break -</b>
<b>13:00 - 14:30</b>	<b>Visit to PCS facility, OMSoP dish, and VISfield</b>
<b>14:30 - 15:30</b>	<b>Basics of image processing and VIS software</b>
<b>15:30 - 16:30</b>	<b>Indoor training on VISfield</b>



## **Agenda**

### Second day

<b>09:00 - 09:30</b>	<b>Open discussion on the first day</b>
<b>09:30 – 10:30</b>	<b>Outdoor training on VISfield setting</b>
<b>10:30 – 12:00</b>	<b>Outdoor measurements in translational and rotational modes</b>
<b>12:00 – 13:00</b>	<b>- Lunch break -</b>
<b>13:00 – 14:00</b>	<b>Visit to the solar collector optics laboratory – how to measure mirror 3D shape</b>
<b>14:00 – 15:30</b>	<b>Processing of the measurements</b>
<b>15:30 16:30</b>	<b>Final discussion and feedback on the training</b>



## MEETING PLACE & ACCOMMODATION

Training place	ENEA-Casaccia
Address Training Location:	Via Anquillarese 301, Santa Maria di Galeria (Roma), Italy
How to get to the Training place from the airport	<input type="checkbox"/> By train (Leonardo Express → MetroA → FL3) <input type="checkbox"/> By taxi <input type="checkbox"/> By car for rent
Restaurant place	Launch at ENEA canteen; dinner free
Accommodation	Next to ENEA-Casaccia or in Rome city
Contacts for the Training	Marco Montecchi (ENEA) Tel.: +39 06 3048 3587 E-mail: marco.montecchi@enea.it
Participation confirmation for the Training	SFERA III website : <a href="https://sfera3.sollab.eu/events/list/">https://sfera3.sollab.eu/events/list/</a>