

## **Workshop\_Fundamentals of Lighting Engineering\_2022-23**

In collaboration with:

**SUPERINTENDENCE FOR THE CULTURAL HERITAGE OF MUNICIPALITY OF ROME**

**HIGHER EDUCATION SCHOOL FOR LINGUISTIC MEDIATORS OF ROME SSML GREGORIO VII**

Supports:

**MiBAC ITALIAN MINISTRY FOR CULTURAL HERITAGE AND ACTIVITIES**

**AIDI ITALIAN ASSOCIATION OF LIGHTING**

**APIL LIGHTING PROFESSIONALS ASSOCIATION**

**ASSIL ITALIAN ASSOCIATION OF LIGHTING MANUFACTURERS**

**ASSODEL NATIONAL ASSOCIATION OF ELECTRONIC SUPPLIERS**

Sponsors:

**A.A.G. STUCCHI - CLAY PAKY – EXENIA – LINEA LIGHT**

Technical sponsor:

**ILM LIGHTING**

# **Fundamentals of Lighting Engineering, COLOUR AND VISUAL PERCEPTION**

**From the 20<sup>th</sup> to the 24<sup>th</sup> of February 2023**

**Lighting design is a complex subject, involving many aspects: physics, physiology of the eye, psychophysical mechanisms of perception, optics, colour theory, architecture, material science. The first week of the workshop aims at providing the foundations necessary for the development of the skills required to understand the world of natural and artificial light. Theoretical lectures on the physics of light and colour, the functioning of the human eye, the definition and measurement of lighting engineering parameters, and exercises in order to use the most common tools and apply calculation methods.**

**Headquarter: Architecture Faculty Via Emanuele Gianturco Classroom G43**

**Online upon request**

## Programme

**Monday 20th** h 9.30-12.30 / 14.00 – 17.00.

**Floriana CANNATELLI** Architect and Lighting Designer. Professor at the IED and RUFA Universities in Rome.

“Perception paths”

**Tuesday 21st** h 10.00-13.00 **online**

**Aldo BOTTOLI** Perception designer. Professor of Color Science at Raffles Institute of Fashion and Design, Milan

**Lucia MIRARCHI** Architect and Lighting Designer. Graduated MLD.

“Notes of daily dramaturgy dedicated to fragile users”

**Tuesday 21st** h 14.00 – 17.00

**Marco FRASCAROLO** Engineer and Lighting Designer. Researcher and Professor in Technical Physics Faculty of Architecture. Roma Tre University.

“Light, art and visual communication: a path towards the definition of the foundations”

**Wednesday 22nd** h 9.30-12.30 / 14.00 – 17.00.

**Marco FRASCAROLO** Engineer and Lighting Designer. Researcher and Professor in Technical Physics Faculty of Architecture. Roma Tre University.

“Light, art and visual communication: a path towards the definition of the foundations”

“Radiant energy. Photometric quantities. calculation methods. Instrumentation and methods of measurement of photometric quantities”

**Thursday 23rd** h 9.30 -12.00

**Stefano CATUCCI** MLD Director. Aesthetics Professor. Università Sapienza in Rome

“Space, perception and reality”

**Thursday 23rd** h 13.00 – 17.00

**Marco FRASCAROLO** Ingegnere e Lighting Designer. Researcher and Professor in Technical Physics Faculty of Architecture. Roma Tre University.

“Radiant energy. Photometric quantities. calculation methods. Instrumentation and methods of measurement of photometric quantities”

**Friday 24th** h 9.30 -11.30

**Maurizio DI PUOLO**

Architect. Exhibit Designer. Creator and Director of the Musarc until the year 2000. Professor of museography and exhibit design at the universities of Milan, Rome, Naple, Ferrara.

“Field invasions”

**Friday the 24th** h 12.30 – 13.30 /14.30-18.00

**At the Lighting Engineering Laboratory - Technical Physics and Technology Laboratory. Architecture Department. Roma Tre. Largo Giovanni Battista Marzi 10**

**Marco FRASCAROLO** Engineer and Lighting Designer. Researcher and Technical Physics Professor Faculty of Architecture. Roma Tre University.

“Practice exercises”