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Daylight is the best teacher.

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The problem is that daylight is often only integrated into architecture in individual aspects and not in its full bandwidth. As a result, it cannot develop many of its qualities.

We have to acknowledge, that daylight is a holistic entity, inseparably interwoven in all aspects of life.

I present a structured entity of different approaches to natural light in architecture and urban planning. Natural light includes day- and nightlight.

A holistic view on natural light is the base for a good lighting design, including all sciences.

The range of topics is on Nature, Evolution, Perception, Culture, Sustainability, Health, Darkness, Dynamic, Composition, Atmosphere and Magic.

In this talk we focus on the three following topics: Nature, Composition, Darkness.

Nature - Natural Light

Nature represents the variety of natural light. We have a small toolbox of physical laws, that lead to a richness of various phenomena.

We have one light source (the sun), a diffuse filter (the atmosphere) and we observe the effects of reflection, refraction, absorption, direct light.

Composition –It's all in the mix

From daylight, we understand that inspiring environments evolve through the combination of these different atmospheres. They have specific effects on humans. We learn this from medicine, psychology and biology.

Darkness –Daylight in Transition

The dynamic of natural light includes bright and dark environments. Especially, the transition phase between day and night is deeply rooted in cultural narratives and shared identity. Working globally, we observe that the duration of sunset in different regions of the world has an impact on the preference of people for warm or cold colour temperatures in artificial lighting.

Understanding these links between disciplines teaches us to strengthen the exchange between scientists and designers, such as architects, lighting designers and artists.

Keyword 1

Natural Light

Keyword 2

Composition

Keyword 3

Darkness

Keyword 4

Holistic approach

Keyword 5

Lighting design

Contact by email

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