TRIDONIC

PRESS INFORMATION

Light as a tool for creating dynamic work environments

Holistic Study for designing spaces by combining daylight and artificial lighting

Dornbirn, March 26, 2018**. A unique light study by a number of leading lighting companies and the recognised Aalborg University in Copenhagen adds a new dimension to the working environment by exploring how the interplay of dynamic daylight and dynamic electrical lighting in a spatial context can support individual needs and different work situations.**

The lighting technology and solution partners like Tridonic, iGuzzini, Fagerhult and Zumtobel are teaming up with Aalborg University in a unique cooperation. This important joint project in the lighting industry has set the goal of developing a new paradigm for how the user can improve the work environment through dynamic lighting.

Double Dynamic Lighting is the name of this study carried out by PhD fellow Sofie Linnebjerg under the direction of Prof. Dr. Ellen Kathrine Hansen, Aalborg University Copenhagen. The study will investigate the spatial properties of a dynamic lighting environment and the influence on users wellbeing. The lighting is approached as a tool for the everyday user of a workplace to stimulate different activities over time. Praxis-oriented and empirically-based design principles will be described, tested and operationalized through a series of studies conducted in existing dynamic lighting work environments, in Light Lab facilities at Aalborg University and in fully interactive, three-dimensional computerized models.

Dr. Hansen, Associate Professor, Cand. Arch, as well as Programme Director for Lighting Design in the Department of Architecture, Design & Media Technology, about the study: “The aim of the study is to create a holistic approach to lighting through the use of an innovative mixture of methods that can then function as a seal of approval in the lighting industry. The combination of biological, aesthetic and functional aspects should define the foundation for the design process. At

the end of the study, the new research findings will be used in architecture through the lighting designers' specifications so as to help people in the everyday life."

Trying out new methods as a knowledge base

The approach taken by the Double Dynamic Lighting study is characterised above all by its interdisciplinary nature and mixed methods approach: the industrial partners contribute their practical application know-how and work hand-in-hand with the university, which guarantees the high scientific level. The study will look into the question of how the user can use dynamic light as a tool to support his working environment. This will be determined on the basis of novel methods of investigation such as measurements with cameras, sensors or tracking tools, as well as classic observations and interviews. Consequently, the research method already ensures a pioneering approach in the combination of light, architecture and media technology.

Information on the parties involved:

- Aalborg University Copenhagen/ Denmark: Recipient of the PLDR-Award for Education for its trans-disciplinary Master programme Lighting Design, which is based on knowledge and skills in architecture, light and media technology.
- A research-based platform, which includes Aalborg university combined with lighting technology and solution partners such as Tridonic, Fagerhult, Iguzzini and Zumtobel.

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About Tridonic

Tridonic is a world-leading supplier of lighting technology, supporting its customers with intelligent hardware and software and offering the highest level of quality, reliability and energy savings. As a global driver of innovation in the field of lighting-based network technology, Tridonic develops scalable, future-oriented solutions that enable new business models for lighting manufacturers, building managers, systems integrators, planners and many other types of customers.

To promote the vision of the "Internet of Light", Tridonic relies on partnerships with other specialists. The goal is the joint development of innovative technological solutions that

convert lighting systems into intelligent networks and thereby enable associated services. Its profound, technical industry expertise makes Tridonic an ideal partner for established brands and for newcomers to the market.

Tridonic is the technology company of the Zumtobel Group and is headquartered in Dornbirn, Austria. In the 2016/17 tax year, Tridonic generated sales of €377.2 million. 1,590 highly skilled employees and a worldwide sales presence in over 50 countries reflect the company's commitment to the development and deployment of new, smart and connected lighting systems.

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