

LIGHT

IN

THE

EYE

OF

THE

BEHOLDER

81.08.44

INVITATION FOR 31 MARCH 2017 TO
LIGHT IN THE EYE OF THE BEHOLDER
A SYMPOSIUM (IN ENGLISH)
AT THE FACULTY OF INDUSTRIAL DESIGN ENGINEERING, TU DELFT

FOLLOWED BY
HET LICHT ZIEN – LIGHTING DESIGN AND PERCEPTUAL INTELLIGENCE
THE INAUGURAL LECTURE (IN DUTCH)
OF ANTONI VAN LEEUWENHOEK PROFESSOR SYLVIA PONT
AT THE TU DELFT AULA

SPEAKERS

PROF. INGRID HEYNDERICKX Eindhoven University of Technology

DARK ADAPTATION IN THE REAL WORLD — Dark adaptation of the human visual system has been studied for many decades. Related experiments though all focused on adaptation to a completely dark environment. The effect of remaining light sources in an otherwise dark environment on dark adaptation is hardly documented, while this knowledge is essential in various application contexts. The adaptation state of the human eye determines how much contrast is needed on a high dynamic range display, or whether a light source yields disability or discomfort glare. The presentation will discuss first results and models for dark adaptation to a spatially complex light distribution in the visual field.

PROF. ANYA HURLBERT Newcastle University

SEEING COLOURS, FEELING THE LIGHT — Light shapes human behaviour, through both conscious perception and unconscious sensing of the environment. Variations in illumination spectra – the colour of light – are rife in the natural and man-made worlds, and are important signals for both the visual and non-visual systems. The human visual system must register such spectral variations in order to “discount” them and thereby see stable object colours, to recognise bananas as ripe yellow in twilight or bright sunshine. The non-visual system monitors changes in light spectra to set biological rhythms and moods. In this talk, I will explore these effects of light on seeing and feeling, and discuss how new lighting technology may be harnessed to influence human behaviour and performance in different environments.

SIEGRID SIDERIUS Arup Amsterdam & Lichtontwerp Nederland

THE POWER OF LIGHT — Everyone naturally accepts that the day is light and the night is dark. With 80% of sensory stimulance being registered through the eyes this comes as no surprise. Our perception is based on the availability or the lack of light. At IDE, Industrial Design Engineering, students are taught how to shape the physical world. Teaching the possibilities of light is the starting point for creating awareness of the power of light and how the design of lighting can guide and change our perception of the world.

FREE ENTRANCE/REGISTRATION REQUIRED!

io.tudelft.nl/light

Light makes us see. Perception-based lighting design optimizes what we see or how light, spaces, shapes and materials appear visually. In order to design scientifically informed perceptually intelligent light we need understanding of the optics and perception of natural light and its effects, design methods for light (not lamps), skills to implement lighting plans technologically, and creativity. Light(ing) design thus needs an interdisciplinary approach, combining design, physics, psychology, engineering, computer science and art. The three internationally acknowledged speakers of this symposium are important representatives of work in this area. They will present their work on light at TU Delft, bringing together science, technology and art in the tradition of the famous Delft masters of light Johannes Vermeer and Antoni van Leeuwenhoek.

PROGRAMME

10:00-10:30	Registration and welcome coffee/tea at faculty of Industrial Design Engineering, TU Delft
10:30-10:40	Opening by Prof. Ena Voûte, Dean of IDE faculty
10:40-11:15	Prof. Ingrid Heynderickx
11:15-11:50	Prof. Anya Hurlbert
11:50-12:20	Siegrid Siderius
12:20-12:30	Closing by Prof. Sylvia Pont
12:30-14:30	Networking lunch and exhibition
14:30-15:00	Towards TU Delft Aula, Auditorium
14:30-15:00	Doors Auditorium open
15:00-16:00	Inaugural lecture 'Het licht zien – lighting design and perceptual intelligence' by Prof. Sylvia Pont
16:00-18:00	Reception and exhibition

LOCATIONS

FACULTY OF IDE
LANDBERGSTRAAT 15

TU DELFT AULA
MEKELWEG 5

DELFT / THE NETHERLANDS