



Design and Advanced Materials **DAMADEI**

Program of the symposium 20X20 Sketcha Kutcha



In the beginning there was light...

A group of designers, architects, scientists, technicians and company representatives will come together to discuss how to use advanced and innovative materials for future lighting on 28th May 2013 at the Faculty of Architecture, CTU in Prague.

The creative symposium is organized as part of the European project DAMADEI. The project aims to bridge the gap between the creative sector and the research and science sector.

Inspirational talks | 13:00 – 14:30



RNDr. Jan Proška, researcher | FJFI ČVUT **No man ever steps in the same light twice**

A walk through various physical phenomena, the physiology of color perception, remarkable optical illusions, or light and color communication in the animal kingdom. Participants will learn how light, color or perception are formed in different materials. The lecture will be supplemented with many examples of the interaction of light with various materials.

(foto: www.bigfoto.com)



Elodie Ternaux, designer and materials expert | matériO Paris **Light – absolute, elusive, mystical and mysterious**

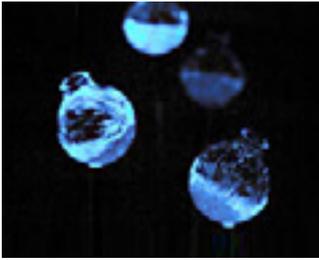
Light has always fascinated humanity of all cultures and civilizations by its elusiveness and immateriality. Nowadays, we are aware about its wave-particle duality, which can be described only through laws of quantum mechanics. Using light beam - laser, it is possible to weld and cut hard materials, perform surgical procedures or astronomical observations. Exploring the relationship between light and shadow has always played an important role in fine arts and architecture.

(foto: Théo Mercier)



Jaroslav Bejvl ml., chief designer | Preciosa Lustry **Element – crystal imagianion**

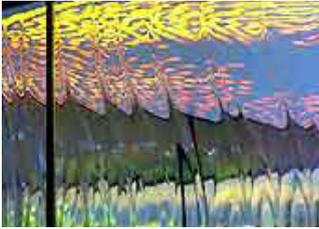
Water jet, glass material OptiWhite, custom printed circuit amplifying voltage and LEDs - using modern technology, an elegant lamp made completely of glass with a minimum of metal has been born. Element – the new design product of Preciosa shone for the first time in Milan at the international trade fair EuroLuce 2013.



Dr. Sasha Peters, materials expert | Haute Innovation
Living Light

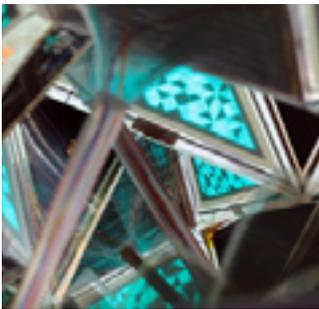
Bioluminescence, a light emitted by some biological organisms, is one of the less usual sources of light. Designer Nicola Bruggraf's light installation uses microscopic algae as biological sensors responding to movements around them through flashes of blue light.

(foto: Nicola Bruggraf)



Maxim Velčovský, art director | Lasvit
Liquidkristal

Liquidcrystal is a flexible system of shaping using parametric models to create large, partly corrugated glass plates, which give a convincing impression of „liquid glass“. Liquidcrystal introduces new options to glass application in architecture.



Manuel Kretzer, architect | ETH Zurich
Phototrophia

Phototropia is part of an ongoing series on the application of smart materials in an architectural context. The project combines self-made electro-active polymers, screen-printed electroluminescent displays, eco-friendly bioplastics and thin-film dye-sensitized solar cells into an autonomous installation that produces its required energy from sunlight and - when charged - responds to user presence through moving and illuminating elements..

(foto: ETH Zurich)

Inspirational talks | 14:50 – 17:00

Traslucent concrete
Jiří Peters / Gravelli



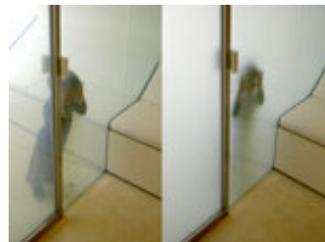
High-performance polymer SUSTAPEI
Petr Falc / Röchling Engineering Plastics



OLED light panels VELVE
Riccardo Gigante / Verbatim



Switchable glass
Jiří Mrlina / MIJA-THERM



More info about the DAMADEI project on www.damadei.eu.



This project has been funded with support from the European Commission. This publication [communication] reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.