



**Smart Optics:  
a new technology platform for the dynamic directing and shaping of light**

December 19<sup>th</sup>, 14h, iGent

Lighting has recently evolved from a commodity product where innovation concentrated mainly on efficient illumination, to a lifestyle product class that acknowledges the diverse and profound effects it can have on general wellbeing, efficiency in the workplace, city atmosphere, health, architecture etc.

This increased attention to the quality of light brings along increasing demands on the ability to control it, be it artificial light or sunlight that enters buildings via shafts etc. It also asks for dynamic solutions that allow a single source of light to serve different use cases, for instance to adapt to a change in interior, switch from direct to indirect lighting etc.

Other applications that require the ability to steer light are for instance 3D-displays that can work without the need to wear special glasses.

These challenges were tackled within the research project SECONDOS: Smart Electro-Optical Components for the direction of Solid State Light, involving [B-Phot](#) (VUB), the [Centre for Microsystems Technology](#) (UGent, imec) [ETAP N.V.](#) and the [Liquid Crystals and Photonics group](#) of UGent. This seminar will present the main results from this project and offer an outlook to possible next steps towards products. This research was subsidized by [VLAIO](#).

**Program:**

|              |   |   |
|--------------|---|---|
| <b>13h30</b> | Registration and coffee   |   |
| <b>14h00</b> | Welcome and Introduction<br>(lead up to the project + agenda)                                       | Prof. Herbert De Smet (UGent),<br>project co-ordinator            |
| <b>14h05</b> | EYEco eyeCO: Digital eyewear  | Jelle De Smet, EYEco eyeCO  |
| <b>14h25</b> | A new smart optics technology platform.   | Prof. Kristiaan Neyts   |
| <b>14h55</b> | Behind the scenes introduction to the<br>research groups and infrastructure<br>involved in SECONDOS | Profs. Jeroen Beeckman, Herbert De<br>Smet, and Michael Vervaeke. |
| <b>15h30</b> | Break   |   |
| <b>15h50</b> | The Lighting Industry: still in transition  | Mrs. Catherine Lootens, Groen Licht<br>Vlaanderen                 |
| <b>16h05</b> | Services and regional funding channels<br>supporting innovation                                     | Dr. Tine Demoor, Innovatiecentra<br>Vlaanderen                    |
| <b>16h20</b> | Demonstrators   |   |

**16h40** Reception with finger food and sandwiches

**When?** December 19<sup>th</sup>, 14h

**Where?** [iGent Tower](#), Technology Park nr.15, Zwijnaarde, Gent.

**Registration:** The event is free of charge, but registration is required before Dec. 15th @: <http://tinyurl.com/smartoptics>

Looking forward to meeting you on the 19th,

Herbert De Smet  
Full Professor, UGent and imec  
Coordinator of SECONDOS

Frederik Leys  
Research Valorisation Manager,  
UGent

