

News Release

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Amazing Lighting Experiences with Materials from Merck KGaA, Darmstadt, Germany

- **Merck KGaA, Darmstadt, Germany, presents its OLED, LED and OPV materials at the Light + Building trade fair**
- **Artist Siegrun Appelt's and architect Michel Müller's installations will stage the innovative materials**

Darmstadt, Germany, February 10, 2016 – Merck KGaA, Darmstadt, Germany, a leading science and technology company, announced today that it will exhibit OLED, LED and OPV installations in Frankfurt, Germany, at Light + Building, the world's leading trade fair for lighting and building services technology. The installations and the stand concept of Austrian artist Siegrun Appelt and Darmstadt-based architect Michel Müller will stage the special aspects of the respective light modules and link them with modern building concepts. The center of attention will be an OLED installation. "We're delighted to have the opportunity to present our high-quality materials in such a special setting," says Udo Heider, head of the OLED business field at Merck KGaA, Darmstadt, Germany. "We can demonstrate the lighting solutions we are able to develop with our partners and the great future potential that OLED lighting has in our view."

The range of OLED and LED lighting applications is very broad. "The two light sources combined are ideal because they complement each other perfectly," Appelt summarizes. "OLEDs are thin and can be used as area light sources for room design, while LED lighting gives a room definition. I'm very much in favor of refining the two light sources together."



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OLED installation uses livilux materials

OLED materials can be used to build thin, filigree, lightweight light panels that provide great freedom of design. The installation exhibited at the trade fair will take advantage of this aspect. A unique lighting experience with a natural appearing spectrum awaits the visitors. The panels used for this were provided by the development partners of Merck KGaA, Darmstadt, Germany, Konica Minolta, OLEDWorks and Osram. With its livilux product group, the company offers its customers both vapor-deposition materials and printable inks – highly pure and extremely stable.

LED table showcases advantages of isiphor materials

The isiphor brand stands for energy-efficient, high-quality phosphors in LED lighting applications. At the trade fair, Merck KGaA, Darmstadt, Germany, will be presenting an installation that compares the latest generation of phosphors featuring a color-rendering index (CRI) of 98 with a traditional LED having a CRI of 80. The latest phosphors from Merck KGaA, Darmstadt, Germany, are used to achieve this high CRI. They create an LED generation that allows rooms to be bathed in light coming very close to daylight with a CRI of 100.

Organic photovoltaic (OPV) modules enable aesthetic accents

The architectural installation exhibited at the trade fair will use semi-transparent modules including a lissicon formulation from Merck KGaA, Darmstadt, Germany. These modules were developed in cooperation with Belectric OPV. The OPV technology offers many advantages, especially with respect to building-integrated photovoltaics. OPV modules do not show the performance drop usually observed with traditional inorganic photovoltaics in diffuse lighting conditions and under elevated temperatures – typical conditions found in façades. In addition, the semi-transparent modules are available in various colors and offer architects much freedom of design.

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Light + Building, the world's largest trade fair for lighting and building services technology, will take place in Frankfurt, Germany, from March 13 to 18, 2016. Visitors will find the stand from Merck KGaA, Darmstadt, Germany, with the installations in Hall 4 (B 85). The OLED Light Art reception will take place on March 14, 2016, at 6:00 p.m. and is upon invitation. The speakers include Siegrun Appelt, Udo Heider and Michel Müller.

Journalists can receive an invitation to this event on request. Photographic materials about the stand as well as about the OLED, LED and OPV installations of Siegrun Appelt and Michel Müller can be requested from pm-communications@emdgroup.com after the trade fair opens.

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