

## Körber European Science Prize

### Trustee Committee

**Prof. Dr. Sir Richard Friend**  
Cavendish Laboratory, Cambridge, UK



Photo: private

Sir Richard Friend holds the Cavendish Professorship of Physics at the University of Cambridge. His research encompasses the physics, materials science and engineering of semiconductor devices made with carbon-based semiconductors, particularly polymers. His research advances have shown that carbon-based semiconductors have significant applications in LEDs, solar cells, lasers, and electronics. These very surprising findings have been important both for fundamental science, because they reveal new regimes and models for semiconductor behavior, and for real applications that have been developed and exploited through a number of university spin-off companies. The first of these, Cambridge Display Technology, now part of the Sumitomo Chemical Company, developed fully printable organic LEDs for use in high resolution displays that are now commercialized and used in current OLED displays. His current research interests are directed to novel schemes – including ideas inspired by recent insights into Nature’s light harvesting – that seek to understand and improve the performance and cost of solar cells.

Richard Friend is a Fellow of the Royal Society and of the Royal Academy of Engineering, and a Foreign Member of the US National Academy of Engineering. He has received many international awards for his research, including Laureate of the Millennium Prize for Technology (2010) the Harvey Prize (2011) of the Israel Institute of Technology and the von Hippel Award of the Materials Research Society (2015). He was knighted for "Services to Physics" in the Queen's Birthday Honours List, 2003.