

## **SESSION 14: EMERGING TECHNOLOGY B**

Chair: Andreas Eisenbach, *IQE plc*

The invited presentation from UC Berkeley will discuss recent advances in SiC-based MEMS for harsh environment sensors where the use of Si is no longer feasible; covering various manufacturing aspects from growth through micro-machining to contact properties. In recent years, photovoltaic technologies have shown exciting progress in the push for the use of renewable energy. Oerlikon Solar's paper will outline the three major Thin Film Technologies and respective financial and technological roadmaps in the near future. The final two presentations of this session will cover novel aspects of LEDs; UIUC's paper will show advances in LEDs for short-range data communication through increased modulation speed, while the paper from NTU will demonstrate their improved fabrication methods for GaN nanorod LEDs resulting in higher output power, lower leakage, and more uniform light emission.