

## Session III: Emerging Technologies

### Combinatorial methods for organic light emitting materials and devices

**Dr. T. Beierlein**

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Tilman Beierlein studied electrical engineering at the University of Ulm, Germany. From 1996 to 2004 he was a trainee, diploma and PhD student at the IBM Zurich Research Lab in Switzerland where he investigated indium-gallium-nitride layers for use in organic LEDs and received a diploma degree from University of Ulm in 1998. In the course of his PhD research he established a combinatorial fabrication and characterization system for efficient material screening and device optimization. He received his PhD degree from University of Bayreuth in 2003.

Dr. Beierlein joined the Swiss Center of Electronics and Microtechnology (CSEM) as a member of the Polymer Optoelectronics group in Zurich in 2005 and was relocated to Basel in 2008. His research activities comprised solution based organic devices such as polymer LEDs, organic solar cells (OPV) and organic field-effect transistors (OFET) using printing methods as well as related encapsulation techniques. From 2004 to 2010 he gave lectures on "Introduction to Microsystems & Technology" at the University of Applied Sciences in Winterthur, Switzerland.

He is currently with a recently founded company, Combivap AG which focuses on combinatorial fabrication and characterization of thin evaporated (in)organic multilayer devices for new and innovative applications.

Dr. Beierlein is author and co-author of more than 20 articles and 12 patents.

