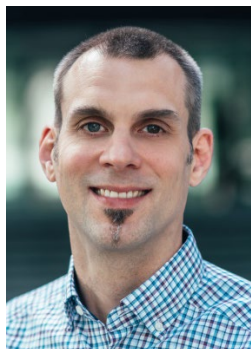


CELEST Member Short Profile



Philip Scharfer



Dr.-Ing. Philip Scharfer is head of the group Thin Film Technology (TFT) at the Karlsruhe Institute of Technology (KIT) Campus North. He received his PhD in process engineering from the University of Karlsruhe (TH) in 2009. In addition to his practical skills and his expertise as a consultant, he is an expert in the fields of drying and thermodynamics of thin films. He deals with measuring methods for the investigation of polymer film drying and develops numerical simulation tools for industrial dryer applications. Since 2009, Dr. Scharfer is a member of the scientific committee of the European Coating Symposium (ECS), since 2012 member of the Board of Directors of the International Society of Coating Science and Technology (ISCST). Dr. Scharfer is former Vice President Europe of the ISCST and organized ECS 2009 in Karlsruhe and ECS 2019 in Heidelberg as Chairman together with Prof. Dr.-Ing. Dr. h. c. Schabel. In 2014, he was awarded with the L. E. Scriven Young Investigator Award by the ISCST.

Thin Film Technology

Material Research Center for Energy
 Systems (MZE)
 Straße am Forum 7
 76131 Karlsruhe

Contact details

Dr.-Ing. Philip Scharfer
 +49 721 608-29069
philip.scharfer@kit.edu

Research areas

Heat- and mass transfer, thermodynamics, film processing, simulation, coating, drying

Lithium-ion and post-Li (POLiS-Cluster of Excellence) batteries, fuel cells, electrolysers, functional films, membranes

Lab equipment

Characterization tools for: diffusion, thermodynamic, sorption, multicomponent concentration profiles, in-situ flow field measurements (3D μ -PTV), ...

Equipment: batch coating/drying, drying channels, pilot line coater, multi-zone impingement drying, N-IR drying, laser drying, nano-coatings, disperser, viscosimeter, magnetic suspension balance, inverse raman spectroscopy, fume hood, ...

Philip Scharfer @ TFT	Link TFT	Link lab equipment
Philip Scharfer	TFT-Homepage	Link

Partners

