

CELEST Member Short Profile



Wilhelm Schabel



Prof. Wilhelm Schabel studied process engineering and received his doctor in thermal process engineering in the field of film drying and was honored with the **Carl-Freudenberg Award** for best Phd. by the University. In 2007, he worked as R&D engineer at LONZA Foils in Basel and Taiwan. In 2007 he was honored with the **Arnold-Eucken Award** by VDI /Germany, which is considered to be the highest ranked award for young Chemical Engineers in Germany. In 2008 he was honored with the **L. E. Scriven Award** in the US by the International Society of Coating Science & Technology (ISCST) for his works on thins films. Prof. Schabel is engaged in significant national and international committees, he is **the Vice President European Coating Society** and Chairman of ECS 2009 and ECS 2019. 2012 he was honored with a doctor honoris causa, in 2015 with the **Neuland Innovation Award** for a patent in battery technology and in 2021 with an **Edwards Fellowship** from University Cambridge as a guest Professor and a research stay at Gonville & Caus College. The research of him and the Thin Film Technology group has been honored so far with **more than 30 research awards** on national and international conferences.

Thin Film Technology

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

Contact details

Prof. Dr.-Ing. Dr. h. c. Wilhelm Schabel
 +49 721 608-43765
wilhelm.schabel@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 fiel 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, ...		
Wilhelm Schabel @ TFT	Link TFT	Link lab equipment
Wilhelm Schabel	TFT-Homepage	Link