



17<sup>th</sup> International Conference of Surfaces, Coatings  
and Nanostructured Material | **NANOSMAT2026**  
RHODES-GREECE | 6-10 JULY 2026  
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## SHORT BIO:

**Professor Lauterbach** is a Smartstate Endowed Chair in Chemical Engineering at the University of South Carolina. He earned his undergraduate degree in Physics at the University of Bayreuth, Germany, and his PhD in Chemistry from the Fritz-Haber-Institute, Berlin. His current research focuses on applying AI to discover new chemical processes, such as catalytic conversion of waste biomass and polyurethane, catalysis for nuclear waste cleanup and nuclear fusion, and enabling ammonia as a hydrogen carrier. His work emphasizes the synthesis of catalytic nanomaterials, high-throughput reactor testing, and in situ spectroscopy. Professor Lauterbach has published over 200 papers and book chapters and holds 16 patents.