



**Track 2: Smart Manufacturing – Session 2b
Materials**

	<p><i>What can the materials of the future do?</i></p> <p>The materials of the future are the decisive basis for innovative technical systems. The novel mastery of the internal material structure on the micro-, nano- and atomic scales and its functional integration with sensor and actuator technology are drivers of disruptive innovations. Additive manufacturing offers an ideal approach for this purpose, as do direct structuring technologies for novel surfaces based on biomimetic models. The vision of a complete circular economy and bio-economy drive the minimization of resource consumption.</p>
Moderator	<p>Frank Mücklich, Prof., D.Eng., President of the German Materials Society (DGM) Director of the Materials Engineering Center Saarland, Saarbrücken.</p>
11:30 – 11:45	<p>Materials Research and High-Performance Materials – tailored for our future</p> <p>Frank Mücklich, Prof., D.Eng., President of the German Materials Society (DGM) Director of the Materials Engineering Center Saarland, Saarbrücken</p>
11:45 – 11:55	<p>Materials Driving the Future for Better Connectivity</p> <p>Helge Schmidt, Ph.D., TE-Fellow Global Automotive, Speyer</p>
11:55 – 12:05	<p>(TBD)</p> <p>Delphine Waschkes, Schaeffler Technologies</p>
12:05 – 12:15	<p>Highly Innovative Heavy Plates of Steel for a CO2-Free Future</p> <p>Andreas Schneider, Ph.D., AG der Dillinger Hüttenwerke / The Dillinger Group</p>
12:15 – 13:00	<p>Startup pitches and subsequent discussion round: Opportunities Through the Materials of the Future Q & A and discussion with the participants, Peter Oliveira, Ph.D., Leibniz Institute for New Materials (INM), TBA CeraNovis, among others</p>