



DECHEMA

VDI

## INVITATION

13 May 2020

Fraunhofer-inHaus-Zentrum, Duisburg

# DECHEMA-Infoday „Electrochemically active Interfaces for Batteries”

<https://dechema.de/InterfacesforBatteries2020.html>

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**PROCESSNET**  
EINE INITIATIVE VON DECHEMA UND VDI-GVC



## PROGRAMME

For more than 100 years combustion engines have been the dominant propulsion method for motor vehicles. Today electrically powered vehicles are on the rise. However, for a successful conversion of the field of mobility high performance batteries, made from cheap and abundant materials are of utmost importance. To master this major challenge, control of interfaces during materials formation and operation is indispensable.

The DECHEMA Infoday "Electrochemically active interfaces in batteries" focuses and discusses these important aspects of interfaces.

### Wednesday, 13 May 2020

- 09:00 **Registration**
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- 10:00 **Welcome**  
Prof Dr.-Ing. D. Segets, Universität Duisburg-Essen
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- 10:05 **A new era of car industry: electromobility**  
Prof. Dr. F. Dudenhöffer, Universität Duisburg-Essen  
Prof. Dr. Dr. A. Hintennach, Daimler AG, Stuttgart
- 
- 10:45 **Challenges and strategies for interphase design and characterization in high-energy lithium ion cells**  
Dr. T. Placke, Westfälische Wilhelms-Universität Münster
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- 11:25 **Shape control of functional particles for battery electrodes**  
Prof. Dr.-Ing. W. Peukert, Friedrich-Alexander Universität Erlangen
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- 12:05 **Lunchbreak + Postersession**
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- 13:30 **High performance silicon/carbon composites for lithium ion battery anodes**  
Prof. Dr. habil. H. Wiggers, Universität Duisburg-Essen  
Dr. J. Lyubina, Evonik Industries AG, Hanau-Wolfgang
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- 14:10 **BASF's battery materials R&D and high-Ni NCM development**  
Dr. H. Sommer, BASF SE, Ludwigshafen
- 
- 14:50 **Coffeebreak**
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- 15:10 **Optimum electrical and ionic conductivities within battery electrodes by tailored microstructures and surfaces**  
Prof. Dr.-Ing. A. Kwade, TU Braunschweig
- 
- 15:50 **The critical role of interfaces in solid state batteries**  
Prof. Dr. J. Janek, Justus Liebig-Universität, Gießen und KIT, Eggenstein-Leopoldshafen
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- 16:30 **Closing remarks and Discussion**  
Prof Dr.-Ing. D. Segets, Universität Duisburg-Essen
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- 16:45 **End of the DECHEMA-Infoday**
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- 17:00 **optional: tour of the laboratories NETZ and ZBT**  
(Duration 1 hour)

#### ORGANIZER

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Further information:

<https://dechema.de/InterfacesforBatteries2020.html>