

## Materialwissenschaftliches Seminar

der Professuren Werkstofftechnik und Angewandte Werkstofftechnik der Helmut-Schmidt Universität  
und des Instituts für Wasserstofftechnologie des Helmholtz-Zentrum Hereon

### "Materials Science 4.0"

Agenda:

Thursday, 23<sup>rd</sup> of June

Start	End	Name	First name	Title
09:00	09:05	Jepsen	Julian	Welcome to the workshop on Materials Science 4.0 and Introduction
09:05	09:35	Klusemann	Benjamin	Hybrid modeling approaches for technological processes
09:35	10:05	Kashaev	Nikolai	Laser processing of metallic structural materials: Fatigue properties and fatigue life extension approaches
10:05	10:15	-	-	Break
10:15	10:45	Pistidda	Claudio	In-situ materials characterisation by X-Ray
10:45	11:15	Scheider	Ingo	Taking full advantage of the cluster for large FE models: Commercial vs. in-House codes
11:15	11:45	Niggemann	Oliver	Artificial Intelligence in material science: opportunities and limits
11:45	11:55	-	-	Break
11:55	12:25	Kramer	Denis	Integrated Materials Design
12:25	12:55	Carraro	Thomas	Mathematical aspects of electrode design for fuel cells and batteries
12:55	1:00	Klassen	Thomas	Conclusion