



TECHNISCHE  
UNIVERSITÄT  
DARMSTADT

**SPP 2006 Meeting  
Subgroup “HEA –  
Mechanical Properties”**



**Participants:**

<b>Name</b>	<b>Affiliation</b>
Josua Kottke	WWU Münster
Prof. Dr. Jens Freudenberger	IFW Dresden
Felix Thiel	IFW Dresden
Stephan Laube	KIT
Hans Chen	KIT
Sila Basu	KIT
Aditya Srinivasan Tirunilai	KIT
Antje Dollmann	KIT
Dr. Klaus-Peter Weiss	KIT
Dr. Alexander Kauffmann	KIT
Dr. Andrea Fantin	Helmholtz Berlin
Sergey Kasatkov	Helmholtz Berlin
Christian Hinte	Leibnitz Universität Hannover
Christian Reinhart	RUB
Steven Schellert	Universität Siegen
Franz Müller	Universität Siegen
Christian Gadelmeier	Universität Bayreuth
Daniel Utt	TU Darmstadt
Dr. Alexander Stukowski	TU Darmstadt
Tom Keil	TU Darmstadt
Dr. Enrico Bruder	TU Darmstadt
Prof. Dr. Karsten Durst	TU Darmstadt

## Agenda:

### Monday, 23.09.2019

<b>13:00</b>	Welcome and Introduction Session I (BCC)	
<b>13:05</b>	Stephan Laube	Influence of B2-type order on the ductility of Al-containing refractory high entropy alloys
<b>13:30</b>	Christian Hinte	Mechanical and functional testing of Ni-Ti high entropy shape memory alloys
<b>13:55</b>	Christian Gadelmeier	Tensile properties of equiatomic high entropy alloys TiZrNbHfTa and TiZrNbHfV
<b>14:20</b>		Coffee Break
	Session II (FCC)	
<b>14:50</b>	Aditya Srinivasan Tirunilai	Characteristics of cryogenic deformation of CoCrFeMnNi and NiCoCr
<b>15:15</b>	Antje Dollmann	Elementary deformation mechanisms of CoCrFeMnNi under tribological load
<b>15:40</b>	Christian Reinhart	TBA
<b>16:05</b>		Lab Tour
<b>18:30</b>	Dinner	
<b>Location</b>	TBA	

### Tuesday, 24.09.2019

	Session III (BCC)	
<b>09:35</b>	Steven Schellert	Microstructure and mechanical properties of the alloys within the system Ta-Mo-Cr-Ti-Al: Theoretical assessment and experimental results
<b>10:00</b>	Franz Müller	Microstructure and high temperature corrosion of NbMoCrTiAl and TaMoCrTiAl
<b>10:25</b>	Sila Basu	Understanding the plasticity of BCC refractory high entropy alloys using nanoindentation
<b>10:50</b>		Coffee Break
	Session IV (FCC)	
<b>11:10</b>	Felix Thiel	Progress in understanding the plasticity in the Au-Cu-Ni-Pd-Pt-system
<b>11:35</b>	Tom Keil	Phase stability and solid solution strengthening in fcc high-entropy alloys
<b>12:00</b>	Closing remarks and final discussion	
<b>12:30</b>	Lunch and/or Departure	

**Location:**

TU Darmstadt  
Campus Lichtwiese  
Alarich-Weiss-Straße 2  
64287 Darmstadt

**Building: L2/01 Room: 128**

Arrival by bus: Take the bus line „K“ to the last stop “TU-Lichtwiese Mensa”

