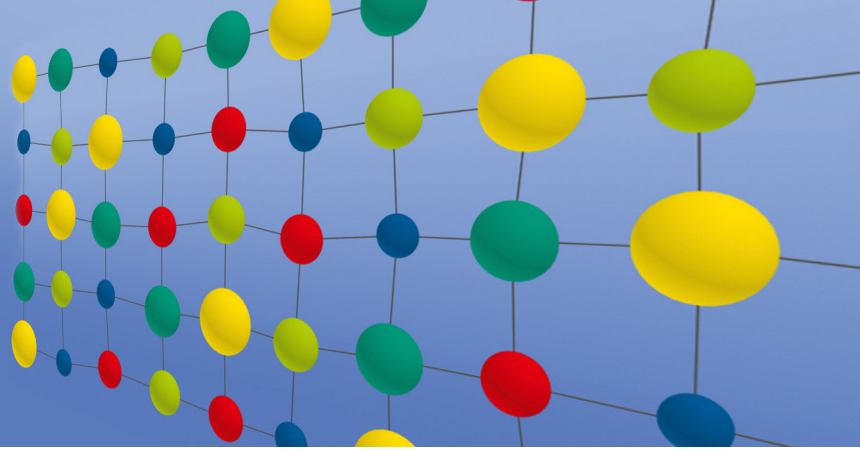


Symposium High Entropy Alloys: Potential for industrial applications

May 12, 2022

Program



(CET)

10:20–10:25	Welcome and short Introduction <i>Prof. Dr. Christoph Leyens, Fraunhofer IWS & TU Dresden</i>
10:25–10:55	Research Landscape High Entropy Alloys in Germany (DFG - SPP CCA - HEA) <i>Prof. Dr. Uwe Glatzel, Universität Bayreuth</i>
10:55–11:20	High Entropy Alloys: Potential for Industrial Applications <i>Prof. Dr. Martina Zimmermann, Fraunhofer IWS & TU Dresden</i>
11:20–11:40	Coffee Break & Poster Exhibition
11:40–12:10	Requirements for Advanced Materials and Concepts for Future Aero Engine Applications <i>Dr. Martin Schloffer, MTU Aero Engines AG</i>
12:10–12:40	Refractory High Entropy Alloys within the System Ta-Mo-Cr-Ti-Al – New Candidates for High Temperature Applications <i>Prof. Dr. Bronislava Gorr, Karlsruhe Institute of Technology (KIT)</i>
12:40–13:30	Lunch Break
13:30–14:00	Eutectic High-Entropy Alloys and Refractory High-Entropy Alloys: Opportunities and Challenges <i>Prof. Dr. Sheng Guo, Chalmers University of Technology</i>
14:00–14:30	The FORGE Project and the Upscale Capabilities for HEA Casting and Processing at OCAS <i>Nico de Wispelaere, OCAS</i>
14:30–14:50	Coffee Break & Poster Exhibition
14:50–15:20	Additive Manufacturing of High Entropy Alloys <i>Dr. Jörg Kaspar, Fraunhofer IWS</i>
15:20–15:50	Production, Additive Manufacturing and Properties of Refractory High Entropy Alloys <i>Dr. Markus Weinmann, Taniobis GmbH</i>
15:50–16:10	Coffee Break & Poster Exhibition
16:10–16:40	Additive Manufacturing via Laser Direct Energy Deposition of Nano-Scale Duplex High Entropy Alloys based on AlCrFe ₂ Ni ₂ <i>Dr. Andreas Weisheit, Fraunhofer ILT</i>
16:40–17:10	The Al-(Co)-Cr-Fe-Ni Alloy System: Thermodynamic Background and Microstructure Formation <i>Dr. Ulrike Hecht, Access e. V.</i>
17:10–17:30	Coffee Break & Poster Exhibition
17:30–17:50	TCHEA5 and MOBHEA2: Development and Applications of CALPHAD Thermodynamic and Mobility Databases for High Entropy Alloys <i>Dr. Anthony Nicholas Grundy, Thermo-Calc Software AB</i>
17:50–18:10	High Entropy Alloys towards Industrial Applications: High-throughput CALPHAD Screening <i>Prof. Dr. Ehsan Ghassemali, Jönköping University</i>
18:10–18:30	Refractory based High Entropy Alloys for High Temperature Applications <i>Dr. Erich Neubauer, RHP-Technology</i>
18:30–18:35	Closing Remarks
From 18:30	Evening Event: Get Together & Dinner

The HEA-Symposium 2022 is part of the “3. Fachtagung Werkstoffe und Additive Fertigung”.