SYMPOSIUM "HIGH ENTROPY ALLOYS"
March 12–13, 2020
Fraunhofer IWS, Winterbergstrasse 28, 01277 Dresden

MARCH 12, 2020

12:00  Come together/Registration

13:00  Welcome and opening
   Prof. Christoph Leyens, Fraunhofer IWS, Dresden

13:10  High Entropy Alloys: Potential for industrial applications
   Prof. Martina Zimmermann, Fraunhofer IWS, Dresden

13:40  German Priority Programme: Compositionally Complex Alloys - High Entropy Alloys (CCA-HEA), Materials for High Temperature Applications?
   Prof. Uwe Glatzel, University of Bayreuth

14:20  Controlling crystallographic ordering in refractory metal high entropy alloys to enhance ductility and strength
   Prof. Martin Heilmayer, Karlsruhe Institute of Technology (KIT), Karlsruhe

15:00  Coffee break

15:30  Requirements for Advanced Materials and Concepts for Future Aero Engine Applications
   Dr. Martin Schloffer, MTU Aero Engines AG, München

16:10  Refractory High Entropy Alloys within the System Ta-Mo-Cr-Ti-Al - New Candidates for High Temperature Applications
   Dr. Bronislava Gorr, University of Siegen

16:50  Additive Manufacturing of High Entropy Alloys
   Dr. Jörg Kaspar, Fraunhofer IWS, Dresden

17:30  Lab tour @ Fraunhofer IWS

18:30  Poster Session & Get Together

MARCH 13, 2020

09:00  High Temperature Materials in Aerospace – The Foundation of High Efficiency Products
   Dr. Dan Roth-Fagaraseanu, Rolls-Royce Deutschland Ltd & Co KG, Blankefelsde-Mahlow

09:40  Laser Additive Manufacturing of High Entropy Alloys – Challenges and Potentials Illustrated by Example of the Alloy Type AlxCoCrFeNi
   Dr. Andreas Weisheit, Fraunhofer ILT, Aachen

10:20  Refractory based high entropy alloys for high temperature applications
   Dr. Erich Neubauer, RHP-Technology GmbH, Seibersdorf (AUT)

11:00  Coffee break

11:30  Material design in high entropy alloy systems - From thermodynamic equilibrium to metastable states achieved by additive manufacturing
   Dr. Ulrike Hecht, Access e.V., Aachen

12:00  Solid State Manufacture of High Entropy Alloys via the Metalysis Process
   Dr. Ian Mellor, Metalasis, Rotherham (GB)

12:40  Powder metallurgical production of PVD Targets to deposit HEA coatings and challenges from the aspect of the manufacturing process
   Dr. Szilárd Kolozsvári, Plansee Composite Materials GmbH, Lechbruck am See

13:40  Closing Remarks

*Version of February 17, 2020