

Ordering effects/segregation to defects – subgroup of SPP2006

Virtual meeting: <https://ruhr-uni-bochum.zoom.us/j/98820137821?pwd=NE5QM3NQLy9tVjdiSjFLbEVuenJ4QT09>

20 minutes presentation + 10 minutes discussion

05.10.2021

Session 1 : Ordering effects

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| 8:45-9:00 | Guillaume Laplanche, Ruhr-Universität Bochum, Germany
Welcome and presentation of the meeting |
| 9:00-9:30 | Lola Lilenstein, Institut de recherche de Chimie Paris, France
investigation of the local environment in refractory MEAs: an EXAFS study |
| 9:30-10:00 | Kirill Yusenko, Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin, Germany
EXAFS to Study Local Structure of High-Entropy Alloys |
| 10:00-10:30 | Reza Darvishi Kamachali, BAM, Berlin, Germany
Elastic energy of multi-component solid solutions and strain origins of phase stability in high-entropy alloys |

10:30-10:45

Coffee break

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| 10:45-11:15 | Suzana Fries, Ruhr-Universität Bochum, Germany
Gibbs energies describing long and short-range ordering in multicomponent alloys:
A CALPHAD approach. |
| 11:15-11:45 | Yilun Gong, Max-Planck-Institut für Eisenforschung, Düsseldorf, Germany
Study of B2-ordering in MoTiCrAl(Ta) alloys by machine learning interatomic potentials |
| 11:45-12:15 | Yujun Zhao and Parham Gemmagami, Ruhr-Universität Bochum, Germany
Preliminary characterization of refractory TiZrNbHfTa BCC high-entropy alloy by APT and TEM |

12:15-12:30

TIME FOR DISCUSSION

12:30-13:30

LUNCH BREAK

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| 13:30 | Session 2: Segregation at interfaces |
| 13:30-14:00 | Yujiao Li, Ruhr-Universität Bochum, Germany
Grain boundary segregation in a nanocrystalline CrMnFeCoNi high-entropy alloy |
| 14:00-14:30 | Surendra Kumar Makineni, Indian Institute of Science, Bangalore, India
Interplay between structure and composition of defects in high temperature alloys |
| 14:30-15:00 | Alberto Ferrari, TU Delft, Belgium
Surface segregation in High Entropy Alloys: the atomistic perspective |

15:00-15:15

Coffee break

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| 15:15-15:45 | Andreas Bezold, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany
Segregation to planar defects in polycrystalline high-entropy superalloys |
| 15:45-16:15 | Shabnam Taheriniya, Universität Münster, Germany
The segregation of Mn to dislocations and LAGBs in 3D printed Cantor alloy |