

ECMetAC on-line dedicated workshop on
„High-Entropy Alloys: from basic studies to industrial applications”
March 18th, 2021

Schedule:
/presenting authors/

OPENING:

9:00 – 9:15 *Janez Dolinšek, Juri Grin, Julian Ledieu, Magdalena Wencka*

9:15 – 9:30 *Magdalena Wencka: Trends in development of High-Entropy Alloys*

Session 1: FORMATION AND STABILITY

Chairing person: Julian Ledieu

9:30 – 10:10 *Sheng Guo: Phase selection rules in high-entropy alloys*

10:10 – 10:50 *Fevzi Kafexhiu: On the precipitation of micro-phase in the AlCoCrFeNi_{2.1} EHEA and its effect on mechanical properties*

Break: 10:50 – 11:00

Session 2: SURFACES

Chairing person: Janez Dolinšek

11:00 – 11:40 *Frédéric Danoix: will be included soon*

11:40 – 12:05 *Julian Ledieu: The (110) and (320) surfaces of a Cantor alloy*

12:05 – 12:30 *Andreja Jelen: Polymorphism and nanostructure of Y-Gd-Tb-Dy-Ho and other rare-earth-based HEAs*

Break: 12:30 – 13:30

Session 3: PHYSICAL PROPERTIES

Chairing person: Sheng Guo

13:30 – 14:10 *Darja Gačnik: Superconductivity in High-Entropy Alloys*

14:10 – 14:35 *Stanislav Vrtnik: Magnetism of single-crystalline nanocomposite AlFeCoMnCr*

Chairing person: Frédéric Danoix

14:35 – 15:00 *Mitja Krnel: Physical properties of Sc-based high-entropy alloys*

15:00 – 15:25 *Primož Koželj: The CoCrFeMnNi HEA – a concentrated, randomly disordered and frustrated multielement magnetic system*

Break: 15:25 – 15:40

Chairing person: Darja Gačnik, Fevzi Kafexhiu, Magdalena Wencka

15:40 – 16:10 Round-table discussion

CLOSING:

16:10 – 16:25 *Janez Dolinšek, Juri Grin, Julian Ledieu, Magdalena Wencka*

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