Symposium of Amorphous and High Entropy Alloys

The First Day

9, November, 2022 (Beijing Time) 8:25-8:30: Open by Jiang Jian-Zhong

8:30-9:10: Prof. Peter Liaw (University of Tennessee, USA)

An Introduction and High-throughput Design of High-performance Lightweight High-entropy Alloys

9:10-9:40: Prof. Zhang Yong (University of Science and Technology Beijing, China) Light-weight of AlMg- and AlTi-system Entropic Alloys and Cryogenic Behavior

9:40-10:10: Prof. Hyoung Seop Kim (Pohang University of Science and Technology, Korea)

Sheet formability of high-entropy alloys

10:10-10:30: Break

10:30-11:00: Dr. Shaolou Wei (Massachusetts Institute of Technology, USA) Designing ductile refractory high-entropy alloys: hint from natural mixing and beyond

11:00-11:30: Prof. Yiping Lu (Dalian University of Technology, China) Research Progress of Eutectic High Entropy Alloys

11:30-12:00: Prof. Wang Xiao-Dong (Zhejiang University, China) Atomic dynamics in La-based metallic glasses by X-ray photon correlation spectroscopy

12:00-13:00: Lunch Break

13:00-13:30: Prof. Yong Yang (City University of Hong Kong, China) Multi-Functional High Entropy Alloys with Heterogeneous Lattice Strain 13:30-14:00: Prof. Tao Yang (City University of Hong Kong, China) Heterogenous columnar-grained high-entropy alloys produce exceptional resistance to intermediate-temperature intergranular embrittlement

14:00-14:30: Prof. Zhou Haofei (Zhejiang University, China) Grain boundary mediated plasticity in nanostructured metals

14:30-15:00: Prof. Cao Qing-Ping (Zhejiang University, China) **High entropy thin films**

15:00-15:20: Break

15:20-15:50: Prof. Shuang Zhang (Dalian University of Technology, China) Composition formulas of metallic glasses

15:50-16:15: Dr. Xu Tian-Ding (Zhejiang University, China) Atomic dynamics in metallic glasses

16:15-16:45: Prof. Robert Maass (Federal Institute of Materials Research and Testing (BAM), Germany)Connecting plastic flow, shear-band cavities, and roughness exponents of metallic glasses

The Second Day 10, November, 2022 (Beijing Time)

8:30-9:10: Prof. Wang Weihua (Institute of Physics, Chinese Academy of Sciences, China)

Purify the relaxation mode in metallic glasses

9:10-9:40: Prof. Li Yi (Institute of Metal Research, Chinese Academy of Sciences, China)

Rejuvenation of metallic glasses through a double annealing process

9:40-10:10: Prof. Wu Yuan (University of Science and Technology Beijing, China) Local chemical ordering and its effects on properties of high-entropy alloys

10:10-10:30: Break

10:30-11:00: Prof. Hao Zhang (University of Alberta, Canada) The role of collective atomic motion in hierarchical relaxations in metallic glasses

11:00-11:30: Dr. Cheng Zhang (University of California Irvine, USA) Strong and Ductile FeNiCoAl-based High-Entropy Alloys for Cryogenic to Elevated Temperature Multifunctional Applications

11:30-12:00: Prof. Zhang Wei (Dalian University of Technology, China) Metal-metalloid type high entropy bulk metallic glasses

12:00-13:00: Lunch Break

13:00-13:40: Prof. Jiang Jian-Zhong (Zhejiang University, China) Temperature and pressure induced structural changes in amorphous alloys

13:40-14:10: Prof. Ding qingqing (Zhejiang University, China) The similarities between superalloys and medium/high entropy alloys

14:10-14:40: Prof. Zhao Yonghao (Nanjing University of Science and Technology, China)

Breaking materials performance paradox from microstructural control to composition design

14:40-15:10: Prof. Wang Jiangwei (Zhejiang University, China) Coupled grain boudnary and twin boundary deformation in metallic materials

15:10-15:30: Break

15:30-16:00: Prof. Andrea Di Cicco (Università di Camerino, Italy) Investigation of local structural changes in GeSe 2 glass under ultra-high pressure 16:00-16:25: Dr. Emin Mijitia (Università di Camerino, Italy) Local structure and pressure-temperature melting line of GaIn eutectic liquid alloy

16:25-16:50: Dr. Raymond Kwesi Nutor (Zhejiang University, China) Strength optimization of CoNiV medium entropy alloys for potential wide-range temperature applications by Al-alloying

16:50-17:30: Prof. Dierk Raabe (Max-Planck-Institut für Eisenforschung, Germany) Recent progress on magnetic and invar high entropy alloys