



International Symposium on Physical Metallurgy of High-Entropy Alloys



DATE

**Friday,
24th November 2023**

TIME

10:00 to 16:30

VENUE

POD 1D 301

The growing significance of High Entropy Alloys (HEAs) in materials science and engineering is marked by substantial expansion across diverse materials and phenomena. Yet, there remains untapped potential in comprehending the profound influence of multiple alloying elements on material properties. HEMs, with their unexplored engineering possibilities, continue to captivate scientists and engineers. This symposium explores challenges, opportunities, and fundamental principles of physical metallurgy in the context of HEMs, emphasizing microstructure and crystallography. Advanced techniques like TEM and APT provide detailed insights, enriching our understanding of HEAs, including design considerations.

PROGRAM FLOW

10:00 – 10:10	Inaugural Session & Welcome Address
	Talk by Prof. W. Maziarz
10:10– 10:45	Application of TEM for microstructure characterization of HEAs
	Talk by Dr. Anurag Bajpai
10:45 – 11:20	Data-Driven High-Entropy Alloy Design: Current Challenges and Opportunities
	Talk by Prof. R. Chulist
11:20 – 11:55	Crystallographic and physical aspects of twinning and phase transition in HEA and SMAs
	Talk by Prof. K.V. Vamsi
11:55 – 12:30	Exploration of FCC solid solutions based on deformation modes
12:30 – 14:00	Lunch Break
	Talk by Prof A. Wójcik
14:00 – 14:35	Amorphous/crystalline soft magnetic materials studied by TEM.
	Talk by Dr. Sheetal Kumar Dewangan
14:35 – 15:10	High-entropy alloys for high-temperature applications
15:10 – 16:10	Poster Session and High-Tea with Cultural Performance
16:10 – 16:30	Valedictory Session & Award Ceremony

Register for the symposium at no cost by clicking [HERE](#)

Organized by: Materials Advantage Student Chapter, IIT Indore
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