



National Taiwan University
國立臺灣大學

NTU
MATERIALS SCIENCE SEMINAR

National Taiwan University
Department of Materials science & engineering



DISTINGUISHED LECTURE

An Introduction of High-entropy Alloys and Phase Transformation/ Deformation Behavior in a B2-base HEA

Prof. Peter K. Liaw

Academician, Academia Sinica

Department of Materials Science and Engineering
The University of Tennessee, Knoxville, TN 37996, USA



DATE

August 4, 2026 (Tuesday)



TIME

2:00 PM – 3:30 PM



VENUE

International Lecture Hall 203

College of Engineering Building
National Taiwan University

ABOUT THE LECTURE

High-Entropy Alloys (HEAs) have emerged as one of the most promising structural materials for next-generation engineering applications. This lecture will introduce the fundamentals of HEAs and present recent advances in the design of B2-based HEAs with enhanced ductility and exceptional mechanical performance. We will explore phase transformation and deformation behaviors, including stress-induced martensitic transformation, and discuss alloy design strategies supported by in-situ neutron diffraction, transmission-electron microscopy, and Monte-Carlo (MC) simulations. The insights gained offer new directions for improving the ductility of intermetallic alloys and accelerating their engineering applications.



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