



Tuesday, May 7 | 8:10 - 8:50 a.m.

**Huseyin Sehitoglu**, University of Illinois

**Transformation-induced slip in shape memory alloys and its implications in irreversibility and fatigue**

Huseyin Sehitoglu, Sameer Khan Mohammed

Department of Mechanical Science and Engineering, University of Illinois at Urbana-Champaign, 1206 W Green St, Urbana, IL 61801, USA

**Biography:** Professor Sehitoglu's research focuses on the mechanical behavior of materials, phase transformations, twinning, and fatigue. He received his PhD in Theoretical and Applied Mechanics at the University of Illinois, Urbana, in 1983. He is the former Department Head of the MechSE Department and has been Nyquist Chair in the same department since 2008. He advised nearly 150 graduate students, postdocs, and visiting scholars, and has 13 former PhD students in academic positions as Professors. He is Editor of Shape Memory and Superelasticity journal. He received the Khan International Medal in Plasticity in 2021, the ASME Honoraray Membership, 2022, the M. Cohen Award from TMS in 2022, and earlier the Nadai Medal from ASME in 2007. He was Director of the Mechanics and Materials Program at the National Science Foundation from 1991 to 1993.