



**20TH MAY 2026, 11:00 A.M.  
ROOM B112 - POVO 2**

This presentation will explore the formation and characterization of glasses **using aerolevitation, a containerless technique** in which spherical beads are levitated and melted without the use of a crucible. By avoiding many of the limitations of traditional glassmaking methods, aerolevitation enables temperatures up to 3000 °C, reduces contamination, and inhibits heterogeneous crystallization.

The seminar will provide an overview of the fundamental principles of the technique, including non-equilibrium conditions, stress-induced crystallization, and in situ characterization methods. Particular attention will be devoted to high-temperature thermophysical measurements, such as density, viscosity, and surface tension, together with the experimental challenges associated with these analyses.

The talk will also present examples of novel crystalline materials produced through aerolevitation and, time permitting, will introduce some of the ongoing research activities at the Center for the Study of Glass at Coe College.

**Speaker: Prof. Mario Affatigato**  
**Physics Department and Center for the Study of Glass**  
**Coe College, USA - President of The American Ceramic Society**

# Characterization of Glasses Made Using Aerolevitation

**DII SEMINAR**

