

ΠΡΟΣΚΛΗΣΗ

Λόγω των έντονων καιρικών φαινομένων η διάλεξη, στο πεδίο της ρομποτικής του [Dante Lauretta](#), που είχε προγραμματιστεί την 21/01/2026 ματαιώνεται και μεταφέρεται την Τετάρτη 28/01/2026 στις 18:00, στην αίθουσα εκδηλώσεων του ΕΜΠ (κτήριο Διοίκησης - Πολυτεχνειούπολη Ζωγράφου).

Speaker: Dante Lauretta

Title: NASA's OSIRIS-REx: Robotic Exploration of Asteroid Bennu for Sample Return

Abstract: NASA's OSIRIS-REx mission relied on a tightly orchestrated robotic system to explore the small, rubble-strewn world of asteroid Bennu and return a sample of its ancient material to Earth. The spacecraft's autonomous navigation, real-time terrain modeling, and precisely actuated sampling arm had to perform in an environment where microgravity, shifting slopes, and meter-scale hazards made human-in-the-loop control impossible. Those engineering capabilities were driven by scientific goals: to obtain pristine carbon-rich material that records the early chemistry of planet formation, water delivery, and prebiotic evolution. The science and robotics formed a single exploratory engine, each enabling the other, to transform Bennu from a distant target into a tangible piece of solar system history.