



11 DE MAIO DE 2017 | 14H15 – 15H45 | AUDITÓRIO JOSÉ GRÁCIO (DEP. ENG. MECÂNICA)

HIGH SPEED AERODYNAMICS PORTFOLIO AT AFOSR

PALESTRA com **IVETT LEYVA**, coordenadora do programa de aerodinâmica de alta velocidade do Departamento de Investigação Científica da Força Aérea Americana (AFOSR)

ABSTRACT

In this seminar a brief introduction of AFOSR will be given followed by the description of the objectives of the High Speed Aerodynamics Portfolio. This portfolio seeks to address fundamental science gaps in external aerodynamics for Mach numbers higher than five, which prevent us from making hypersonic flight a routine operation. A description of the science gaps will be given. Then, each of the focus subareas from the portfolio will be described by highlighting the current state of the art, the scientific questions we are trying to answer and why. The seven subareas covered by the portfolio are: non-equilibrium flows, shock-boundary layer interactions, flow structure interactions, diagnostics, turbulence, ablation, and boundary layer physics. The seminar will conclude with selected examples from ongoing projects, emphasizing the scientific progress being made by each. Opportunities for international collaboration will also be covered.

INSCRIÇÕES: <http://aveiro.libcal.com/event/3267123>

+ informação: soliveira@ua.pt