

Venerdì 31 maggio 2019 alle ore **11:30** nell'aula **1P** del DICAM (Via Mesiano 77) il **prof. Claudio Mazzoleni** (Atmospheric Sciences Program, Michigan Technological University) terrà un seminario sul tema:

"Shapes and "colors" of atmospheric particles"

Abstract

Particles floating in the atmosphere (also called aerosols) are incredibly diverse in terms of their physical and chemical properties. These properties determine their climatic and air quality impacts, and their life cycle. These properties include size, chemical composition, phase, the particles' affinity for water and, therefore, their ability to interact with clouds. When one looks at these particles under an electron microscope, one sees that these particles can also have very different shapes and several components can mix in different geometric structures. These geometric and topological properties (in one word, their morphologies) affect how the particles behave in the atmosphere and also how they interact with the solar radiation, for example, determining their optical properties and their warming or cooling potentials. In this seminar, I will talk about particle morphologies from the perspective of electron microscopy analysis. I will conclude my talk by providing a brief overview of our atmospheric sciences program and research fields at the Michigan Technological University.

Il seminario è offerto nell'ambito del corso di laurea magistrale in Environmental Meteorology, ma tutti gli interessati sono benvenuti.

Dino Zardi

Full professor

Atmospheric Physics Group - [DICAM](#) - University of Trento

Via Mesiano, 77 38123 Trento, Italy

Office phone +39-0461-28-2682 - Mobile +39-347-4469-347 - Skype: dino.zardi - E-mail:

dino.zardi@unitn.it

President of [AISAM - Italian Association of Atmospheric Sciences and Meteorology](#)

Director of [Festivalmeteorologia](#)

Coordinator of the [MSc in Environmental Meteorology](#)