



**OPEN SEMINAR**  
AARHUS UNIVERSITY  
DEPARTMENT OF ENVIRONMENTAL SCIENCE  
FREDERIKSBORGVEJ 399, 4000 ROSKILDE

**4<sup>TH</sup> FEBRUARY 2015, 10:00-11:00**  
**VENUE: ENVS – THE PAVILION**

**SPEAKER:**  
**PROFESSOR MARIA KANAKIDOU**  
Environmental Chemical Processes Laboratory  
Chemistry Department, University of Crete

# Organics in the atmosphere from air pollution to biogeochemical cycles and climate

Organics are key players in the biosphere-atmosphere-climate interactions. They also have a significant anthropogenic component due to primary emissions or interactions with pollution. The organic pool in the atmosphere is a complex mixture of compounds of variable reactivity and properties, variable content in C, H, O, N and other elements depending on their origin and their history in the atmosphere. Multiphase atmospheric chemistry is known to produce organic acids with high oxygen content, like oxalic acid. This water soluble organic bi-acid is used as indicator for cloud processing and can form complexes with atmospheric iron, affecting iron solubility. Organics are also carriers of other nutrients like nitrogen and phosphorus. They also interact with solar radiation and with atmospheric water impacting on climate.

**READ MORE:** <http://envs.au.dk/EVENTS>

**Host:** Professor Jørgen Brandt, ([jbr@envs.au.dk](mailto:jbr@envs.au.dk)) ATMO, ENVS.

External guests interested in attending the presentation should email Astrid Christine Vestergaard, [acv@envs.au.dk](mailto:acv@envs.au.dk)