

## **Laboratoire LAMBE**

Laboratoire Analyse et Modélisation pour la Biologie et l'Environnement  
Université d'Evry val d'Essonne

**Séminaire le 13 septembre 2018 à 14h30 – Salle Blanche LAMBE**

### **How do inorganic species impact the formation and physicochemical properties of atmospheric aerosol?**

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Atmospheric aerosol can make up a substantial fraction of ambient particulate matter, both in polluted urban areas and in cleaner rural and remote regions. Therefore they have the ability to impact the Earth radiative balance, stratospheric processes and human health at local, regional and global scales. Aerosols are made up of a complex mixture of inorganic and organic species with a wide range of functionalities and volatilities, making them one of the most challenging components of the atmosphere to characterize. Once organic and inorganic compounds are emitted into the atmosphere they can undergo complex chemical and physical processes. While chemical processes involving inorganic and organic species have been investigated, the impacts of these interactions on the physicochemical properties of atmospheric aerosols, such as their hygroscopicity, viscosity, diffusion of water, acidity remain to be determined.