

# You are invited to a special PPWS Departmental Seminar on Thurs., Sept. 14, 2017, at 4:00pm, in the Fralin Auditorium entitled:

## BIRCH TREES - SOURCES FOR BIOLOGICAL ICE NUCLEI

**Dr. Hinrich Grothe** is an Associate Professor with tenure in the Institute of Materials Chemistry at TU Wien, Austria. He was trained in chemistry at the Leibniz University of Hannover, Germany, where he earned a PhD in low-temperature chemistry.

Dr. Grothe's current research interests involve understanding ice nucleation in clouds triggered by biological particles such as pollen, bacteria, and fungi. He is also interested in aerosol chemistry and cloud glaciation processes. Dr. Grothe has been studying ice nuclei on birch pollen. He has shown that these ice nuclei can be washed-off from the grain surface and can be dispersed independently. Moreover, these nucleation macromolecules appear to be abundant on leaves, primary wood, and secondary wood.

Dr. Grothe is an important contributor to the European Geosciences Union (EGU) where he is the science officer of the section Atmospheric Chemistry & Aerosols. Each year, he organizes a session at the EGU General Assembly



on atmospheric ice nucleation. He also has organized a number of workshops for early career professionals about the microphysics of ice clouds. His ultimate goal is to find nature's perfect ice nucleus.