

HyARC Seminar (HyARC Seminar#175)

Date: July 10 (Thursday) 15:00-

Room: The meeting room (#617) of Research Institutes Building.

Speaker: Prof. Delphis F. Levia

(Environmental Science and Environmental Studies, University of Delaware/  
HyARC, Nagoya University)

Title: Trees as multi-faceted modulators of biosphere-atmosphere interactions

(生物圏・大気圏の相互作用の多面的な調節機構としてはたらく樹木)

Abstract:

The bidirectional coupling between forests and the atmosphere is complex, occurring at multiple temporal and spatial scales. This presentation seeks to examine and disentangle some of the multi-faceted ways in which trees interact with the atmosphere. Particular emphasis will be placed on precipitation partitioning and the biogeochemistry of subcanopy water fluxes. Research methodologies discussed in a research context include scanning electron microscopy, x-ray photoelectron spectroscopy, synoptic typing, and high-resolution (5 min) monitoring of water fluxes. Research examples will be drawn primarily from projects in the USA and Germany, covering phyllosphere, watershed, and regional scales.

(given in English)