第162回 物質循環談話会

2014/4/10（木）16:00-17:00
13番教室（理学部C棟）

SPEAKER: Prof. Masaki Hayashi（林 正貴 教授）
（Department of Geoscience, University of Calgary, Canada）

Effects of photosynthesis and groundwater exchange on diurnal fluctuations of water quality in a pre-alpine river

（山麓河川での光合成と地下水交流が山麓河川における水質の日周変動に及ぼす影響）

Diurnal fluctuations of dissolved oxygen (DO) concentration and pH due to photosynthesis and respiration are commonly observed in rivers that support periphyton growth. Diurnal fluctuations of electrical conductivity (EC) in connection with photosynthesis have also been reported, but mostly in small, first-order streams or in streams fed by karst springs. The objective of this study is to examine the diurnal EC fluctuations in the Thur River draining a 1,700 km^2 catchment in northeastern Switzerland and understand biological, chemical, and hydrological processes controlling the fluctuations, using long-term archived data, focused field monitoring, and laboratory experiments.

For my biography and research interests, please visit www.ucalgary.ca/hayashi/

（講演は日本語で行われます）

☆☆☆興味のある方はお気軽に御参加下さい☆☆☆

物質循環学科4年生，院生はセミナーの単位（必修）です