

低温科学研究所研究集会（共同利用・共同研究）

湖沼メタン酸化細菌叢とメタン栄養食物網のグローバルパターンの解明
Methanotrophic food webs as a carbon recycling system in lakes under climate changes

開催日時：2014年6月23日（月）より24日（火）

開催場所：低温科学研究所 研究棟2階講義室

代表者：奥田 昇（京都大学 生態学研究センター）

問い合わせ先：福井 学（北大 低温研） my-fukui@lowtem.hokudai.ac.jp

プログラム Program

23th June

Place: Meeting Room (Lecture Room 215 on the 2nd floor) at Institute of Low Temperature Science, Hokkaido University (<http://www.lowtem.hokudai.ac.jp/en/access.html>)

Workshop

Time table Moderator: *Noboru Okuda (CER, Kyoto Univ.)*

9:30-9:40 **Opening remarks** *Prof. Naoto Ebuchi (Director, ILTS, Hokkaido Univ.)*

Session 1: Inter-disciplinary research project in Fei-Tsui Reservoir

9:40-10:10 **T-WEBS: Implementation, Achievement and Future**

Fuh-Kwo Shiah (Academia Sinica)

10:10-10:40 **Extreme climatic effects on phytoplankton in FTR**

Chia-Ying Ko (Academia Sinica, Taiwan)

10:40-11:10 **Linking the secondary structure of individual size distribution with nonlinear size-trophic level relationships in size-based food webs**

Chun-Wei Chang (Academia Sinica, Taiwan)

11:10-11:40 **Scale-dependent hydrochemical responses to typhoon disturbance of upstream forested watersheds**

Teng-Chiu Lin (NTNU, Taiwan)

11:40-13:00 Lunch break

Session 2: International collaborative research in Fei-Tsui Reservoir

13:00-13:30 **What's the methanotrophic food web?** *Noboru Okuda (CER, Kyoto Univ.)*

13:30-14:00 **Methane dynamics in FTR** *Masayuki Ito (CSEAS, Kyoto Univ.)*

Continued to the next page

- 14:00-14:30 **Methane oxidizing bacteria in FTR** *Manabu Fukui & Hisaya Kojima (ILTS)*
- 14:30-15:00 **Seasonal and vertical dynamics of Methane oxidizing bacteria in FTR**
Yuki Kobayashi (Academia Sinica, Taiwan)
- 15:00-15:30 Tea break
- 15:30-16:00 **Methanotroph contribution to freshwater plankton food web: stable isotope analysis study** *Pei-chi Ho (Academia Sinica, Taiwan)*
- 16:00-16:30 **Methanotrophic food webs based on fatty acid analysis**
Megumu Fujibayashi (Dept.of Engineering, Tohoku Univ.)
- 16:30-17:00 **Theoretical models for methanotrophic food webs**
Chih-hao Hsieh (NTU, Taiwan) (In place of Takeshi Miki)
- 17:00-17:30 **Comments from a microbiologist** *Shinichi Nakano (CER, Kyoto Univ.)*
- Comments from a biogeochemist** *Ichiro Tayasu (CER, Kyoto Univ.)*
- 17:30-18:00 **Discussion**

24th June

Place: Meeting Room (Lecture Room 215 on the 2nd floor) at ILTS

Wrap-up meeting

- 10:00-17:00 **Discussion on current and future research plans**