

August 27–29, 2007

Gateaux Kingdom Sapporo, Japan

**Activities under the 21st Century COE Program
“Sustainable Metabolic Systems of Water and Waste for Area-based Society”**

Day 1– Monday 27

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| ■ 09:00–09:10 | Explanation about the aim and goal of the workshop

<div style="text-align: right;">Yoshimasa Watanabe,
Hokkaido University, Workshop Organizer</div> |
| ■ 09:10–09:20 | Break |

Drinking Water Session

Chairpersons: Markus Boller, EAWAG

Hallvard Ødegaard, NTNU

Reporters: Chihpin Huang, NCTU

C. Visvanathan, AIT

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| ■ 09:20–10:20 | Presentation of the summary on the recent research (DW) –1
Current Research Activities at IWW, Germany – New Challenges
for Drinking Water Treatment

<div style="text-align: right;">Stefan Panglisch, IWW Rheinisch–Westfaelisches Institut fuer Wasser</div> |
| ■ 10:20–11:20 | Presentation of the summary on the recent research (DW) –2
Physically Irreversible Fouling of Low Pressure Membranes used
for Drinking Water Treatment

<div style="text-align: right;">Katsuki Kimura, Hokkaido University</div> |
| ■ 11:20–11:40 | Break |
| ■ 11:40–12:40 | Presentation of the summary on the recent research (DW) –3

Comparison of Fouling Characteristics of Two Poly–Vinylidene Fluoride Microfiltration
Membranes with Different Structures in a Pilot–Scale Drinking Water Treatment System

<div style="text-align: right;">So–Ryong Chae, Hokkaido University</div> |
| ■ 12:40–14:00 | Lunch |
| ■ 14:00–15:00 | Presentation of the summary on the recent research (DW) –4 |

Natural Organic Matter (NOM) Fouling of Membranes: What We Know and What We Need to Know

Gary Amy, UNESCO-IHE

■ 15:00–16:00

Presentation of the summary on the recent research (DW) –5

Bioassays for Elucidation of Membrane Biofouling Processes

Dick van der Kooij, KIWA

■ 16:00–16:20

Break

■ 16:20–16:40

Presentation on Standardization Trend –1

Standardization of Membrane/Ultra Filter Modules for Drinking Water Production

Yasumoto Magara, Hokkaido University

■ 16:40–17:40

Presentation of the summary on the recent research (DW) –6

Nanomaterial-Based Advances in Membrane Technologies

Mark Wiesner, Duke University

Day 2 – Tuesday 28

Wastewater Session

Chairperson: Say Leon Ong, NUS

Kazuo Yamamoto, University of Tokyo

Reporters: Guang Hao Chen, HKUST

Satoshi Okabe, Hokkaido University

■ 9:30–10:30

Presentation of the summary on the recent research (WW) –1

Evaluation of oxidant used for decreasing the fouling potential of mixed liquor in membrane bioreactor

Xia Huang, Tsinghua University

■ 10:30–11:30

Presentation of the summary on the recent research (WW) –2

Performance of track-etched membranes in a submerged MBR

How Yong Ng, National University of Singapore

■ 11:30–14:00

Lunch

■ 14:00–15:00

Presentation of the summary on the recent research (WW)–3

Chung Hak Lee, Seoul National University

- 15:00–16:00 Presentation of the summary on the recent research (WW)–4
Direct Ultrafiltration of Municipal Wastewater
Dead-end Ultrafiltration of WWTP Effluent
The Delft Filtration Characterisation Method
Jaap van der Graaf, TU Delft

- 19:00 Workshop Dinner

Day 3 – Wednesday 29

Standardization Session

Moderator: Yoshimasa Watanabe, Hokkaido Univ.

- 09:30–10:00 Presentation on Standardization trend –2
Towards Standardization of MBR Technology in Europe
Roger Ben Aim, INSA Toulouse
- 10:00–10:30 Presentation on Standardization trend –3
International Standardization of Membranes for Water Treatment: RO/NF Case Study
Masaru Kurihara, Toray
- 10:30–10:50 Special presentation on Water reuse
To Drink or Not to Drink
Takashi Asano, Professor Emeritus, California University
- 10:50–12:00 Plenary Discussion
- 12:00–13:00 Lunch
- 13:30–16:30 Technical Visit