

Innovation of Membrane Technology for Water and Wastewater Treatment

—IMTEC Sapporo— **Place: Hotel Royton Sapporo, Japan**
http://www.daiwaresort.co.jp/english/29_royto.html
Date: August 8 Tuesday 2006

FREE

AIM OF THE WORKSHOP

The Sustainable Water Metabolic Systems Group has achieved considerable results under the 21st Century COE Program "Sustainable Metabolic System of Water and Waste for Area-based Society". The major aims of this workshop are to publicize our accomplishments, and at the same time, to bring together a number of selected experts on membrane technology from around the world to share information and knowledge about problems, current status and a future trend of membrane technology through the thorough discussion.

SIGNIFICANCE OF "MEMBRANE"

The Japanese 3rd Science and Technology Basic Plan that has started in April 2006, advocates that we should "achieve a healthy water metabolism and sustainable use of water" in its policy. In the policy, "membrane technology" is recognized as one of the most important leading-edge technologies for water treatment that can be widely used throughout the world.

WORKSHOP STYLE

The program of the workshop consists of counterargument, one-on-one debate and all-hand discussion. A Speaker will give a presentation for 25 minutes first. After each presentation, his/her nominated discussor will give the 10 minutes of counterargument. In the following 10 minutes, the speaker and Discussor will develop the one-on-one discussion. Finally other participants will join the discussion in the last 5 minutes. Your active participation to the discussion will be encouraged.

SPEAKERS



Say Leong Ong
National University
of Singapore
Singapore



Roger Ben Aim
INSA Toulouse
France



Satoshi Okabe
Hokkaido University
Japan



Mark R. Wiesner
Duke University
USA



Katsuki Kimura
Hokkaido University
Japan



Chihpin Huang
National Chiao Tung
University
Taiwan



Stefan Panglisch
IWW Water Center
Germany

DISCUSSERS



Hang-Sik Shin
KAIST
Korea



Duu-Jong Lee
National Taiwan
University
Taiwan



Guang-Hao Chen
Hong Kong University
of Science & Technology
Hong Kong



Yoshihiko Matsui,
Hokkaido University
Japan



Gary Amy
UNESCO IHE
The Netherlands



So-Ryong Chae
Hokkaido University
Japan



Chung-Hak Lee
Seoul National University
Korea

SESSION MODERATORS



Kazuo Yamamoto
The University of Tokyo
Japan



Shin-ichi Nakao
The University of Tokyo
Japan



Yoshimasa Watanabe
Hokkaido University
Japan

PROGRAM

8:30 Registration

9:00 Opening address and a brief report on the current status of membrane technology in Japan

Yoshimasa Watanabe, COE Program Leader

9:40 **Track for Wastewater** Moderator: Kazuo Yamamoto

<p>9:40-10:30 SPEAKER</p> <p>Say Leong Ong</p> <p>"Performance of Pre-denitrification Submerged Membrane Bioreactor (MBR) under various Solid Retention Times"</p>	<p>DISCUSSEER</p> <p>Hang-Sik Shin</p> <p>"Effect of SRT on Membrane Fouling and Performance"</p>
<p>10:30-11:20 SPEAKER</p> <p>Roger Ben Aim</p> <p>"An Approach towards a Better Understanding of Fouling Phenomena in MBR"</p>	<p>DISCUSSEER</p> <p>Duu-Jong Lee</p> <p>"An Alternative Approach towards a Better understanding of Fouling Phenomena in MBR"</p>
<p>11:20-12:10 SPEAKER</p> <p>Satoshi Okabe</p> <p>"Membrane Biofouling in the MBR Treating Domestic Wastewater: Identification of Key Players in Membrane Biofouling"</p>	<p>DISCUSSEER</p> <p>Guang-Hao Chen</p> <p>"Is Biofilm Formation The Key Player in MBR Biofouling?"</p>

12:10-13:30 Lunch

13:30 **Track for Drinking Water I** Moderator : Shin-ichi Nakao

<p>13:30-14:20 SPEAKER</p> <p>Mark Wiesner</p> <p>"Nanomaterials and Membranes for Water and Wastewater Treatment"</p>	<p>DISCUSSEER</p> <p>Yoshihiko Matsui</p> <p>"Nanosized Materials in Membrane Applications"</p>
<p>14:20-15:10 SPEAKER</p> <p>Katsuki Kimura</p> <p>"Mechanism involved in the Evolution of Irreversible Fouling in Microfiltration (MF) and Ultrafiltration (UF) Membranes used for Water Treatment"</p>	<p>DISCUSSEER</p> <p>Gary Amy</p> <p>"TBD"</p>

15:10-15:30 Break

15:30 **Track for Drinking Water II** Moderator : Yoshimasa Watanabe

<p>15:30-16:20 SPEAKER</p> <p>Chihpin Huang</p> <p>"Recovery of Spent Filter Backwash Water Using Coagulation-Assisted Membrane Filtration"</p>	<p>DISCUSSEER</p> <p>So-Ryong Chae</p> <p>"Discussion for <i>Recovery of Spent Backwash Water Using Coagulation-Assisted Membrane Filtration</i>"</p>
<p>16:20-17:10 SPEAKER</p> <p>Stefan Panglisch</p> <p>"Low Pressure Membrane Filtration for Drinking Water Production in Germany : State of the Art and Future Developments"</p>	<p>DISCUSSEER</p> <p>Chung-Hak Lee</p> <p>"TBD"</p>

17:10-17:30 Closing
18:00 Party

● **FEE** Registration to attend the Workshop is FREE
PARTY FEE is 3,000 yen/person *on-site: 4,000 yen

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