

THE 7TH

**INTERNATIONAL SYMPOSIUM ON
WATER SUPPLY TECHNOLOGY
in YOKOHAMA 2006**



2nd CIRCULAR

**22nd- 24th November 2006
Pacifico Yokohama, YOKOHAMA, JAPAN**

Call for Registration

<http://www.congre.co.jp/iwst2006/>



Organized by

The Steering Committee for the 7th International
Symposium on Water Supply Technology



International
Water Association

Welcome to the program of the 7th International Symposium on Water Supply Technology.

Japan Water Research Center (JWRC) conducts an international symposium on water supply technology once every three years and will have the 7th Symposium this year. The previous 6th Symposium was held in Kobe on March 2003 and was concluded with great success thanks to a large number of attendees. I would like to take this opportunity to express my gratitude to all 2003 participants.

The 7th Symposium on the main theme of "New Water Supply Technologies and Development of Water Utility Management" will convene in Yokohama with the support of International Water Association (IWA). I expect to have many participants from all over the world. Invited speakers from several countries, such as Japan, Germany, USA and UK, will deliver a keynote speech, a special lecture and presentations. Presenters of three technical sessions will also report state-of-the-art technologies on water supply. Furthermore, issues and future visions of the world's water supply technology will be summarized in the general panel discussion.

The Exhibition for waterworks experts will be held during the Symposium, participated by water supply utilities, related organizations and private companies that will present their work.

I encourage your participation and look forward to welcoming you to our symposium.



Masahiro Fujiwara
Chair, the Steering Committee for the 7th International Symposium on Water Supply Technology
President, Japan Water Research Center

藤原正弘

Steering Committee for the 7th International Symposium on Water Supply Technology

Chair

Masahiro Fujiwara President, Japan Water Research Center

Vice-Chair

Kojiro Otani Director General, Yokohama Waterworks Bureau

Member

Shinichiro Ohgaki IWA Vice-President, Professor, the University of Tokyo
Masumi Ishii Director General, Kobe Waterworks Bureau
Masakazu Akagawa Executive Director, Japan Water Works Association
Hiromichi Sakamoto Executive Director, Federation of Japan Water Industries, Inc.
Yonosuke Inagaki Director of Secretariat, Japan Small Scale Water Works Association
Mineo Akagi President, Newspaper of Waterworks Industry
Michio Tanaka President, Nippon Suido Shinbun Co.

Advisers

Takafusa Yamamura Director, Water Supply Division, Health Service Bureau, Ministry of Health, Labour and Welfare
Shoichi Kunikane Director, Department of Water Supply Engineering, National Institute of Public Health

THE 7th INTERNATIONAL SYMPOSIUM ON WATER SUPPLY TECHNOLOGY

Organized by

The Steering Committee for the 7th International Symposium on Water Supply Technology

Supported by

International Water Association (IWA)
Ministry of Health, Labour and Welfare
Japan Water Works Association
Japan Small Scale Water Works Association

Co-Supported by

Federation of Japan Water Industries, Inc.
Association of Water and Sewage Works Consultants Japan
Nippon Suido Shinbun Co.
Newspaper of Waterworks Industry

Symposium Outline

Theme New Water Supply Technologies and Development of Water Utility Management
Date 22nd- 24th November 2006
Venue: Conference Center, Pacifico Yokohama
1-1-1 Minato Mirai, Nishi-ku, Yokohama, Kanagawa 220-0012 Japan
Official Languages English and Japanese (Simultaneous interpretation provided)
Registration Fees JPY 30,000 for members of Japan Water Research Center (JWRC) and
International Water Association (IWA)
JPY 50, 000 for non-members

Deadline for

Online Registration 20th October 2006

Exhibition Outline

This exhibition will present latest water treatment, distribution, quality control and management system technologies. Waterworks experts from Japan and abroad and customers are all welcome to participate.

Name Water Yokohama 2006 Exhibition
Date 22nd- 24th November 2006
Venue Exhibition Hall A, Pacifico Yokohama
Admission Free

Program Committee for the 7th International Symposium on Water Supply Technology

Chair

Kenji Fujita Emeritus Professor of the University of Tokyo

Members

Rolf Gimbel	Professor, IWW University of Duisburg-Essen, Germany	Hiroshi Tsuno	Professor, Kyoto University
James K Edzwald	Professor, University of Massachusetts, USA	Tetsuo Hayakawa	Professor, Azabu University
Eun Namkung	Professor, MyongJi University, Korea	Tsuyoshi Hirata	Professor, Azabu University
Yoshinobu Ishibashi	Professor, Tohoku Gakuin University	Kenichi Fukushi	Professor, Hachinohe Institute of Technology
Sadahiko Ito	Professor, Kyoto University	Yasutaka Fujimoto	Associate Professor, Yokohama National University
Masaki Ito	Chief of Water Supply Planning Section, National Institute of Public Health	Hiroaki Furumai	Professor, the University of Tokyo
Kunio Ebie	Professor, Kitami Institute of Technology	Yoshihiko Hosoi	Professor, Tottori University
Shinichiro Ohgaki	IWA Vice-President, Professor, the University of Tokyo	Yasumoto Magara	Professor, Hokkaido University
Tatsuo Ohmura	Professor, Tohoku University	Saburo Matsui	Professor, Kyoto University
Mitsumasa Okada	Executive Vice-President, Hiroshima University	Yoshihiko Matsui	Professor, Hokkaido University
Naoyuki Kamiko	Associate Professor, Ibaraki University	Masakatsu Miyajima	Professor, Kanazawa University
Hiroshi Konno	Professor, Tohoku Institute of Technology	Takeo Moniwa	Professor, Tokai University
Satoshi Takizawa	Professor, the University of Tokyo	Kiyoshi Yamada	Professor, Ritsumeikan University
		Akira Yuasa	Professor, Gifu University
		Yoshimasa Watanabe	Professor, Hokkaido University

Technical Program (Tentative)

Wednesday, 22nd November 2006

10:00- 10:15 **Opening Ceremony** (Registration desk will open at 9:00)

10:15- 10:55 **Keynote Speech**



Presenter: Yasumoto Magara

*Doctor of Engineering Professor, the Creative Research Initiative "Sousei,"
Department of Environmental Engineering, Hokkaido University*

Biography:

Born in March 1941

March 1964: Graduated from Department of Sanitary Engineering, Faculty of Engineering, Hokkaido University

April 1992: Director, Department of Sanitary Engineering, National Institute of Public Health

April 1997: Professor, Graduate School of Engineering, Hokkaido University

Specialty: Environmental Risk Engineering

10:55- 11:35

Special Lecture



Presenter: David Garman

President, International Water Association (IWA)

Biography:

After having had business experiences in Australian NSW Environmental Protection Agency, Water Resources Commission, and private industry, Dr Garman is currently responsible for management of EBCRC.
He joined IWA in 1976 and became the president of IWA in September 2006.

13:00- 17:30 **Presentations by Invited Speakers**

Leading experts in the waterworks field will speak on topics such as R&D, hot issues and their experiences.

Chair: Saburo Matsui

Professor, Kyoto University

Presenters: Rolf Gimbel

Professor, IWW University of Duisburg-Essen, Germany

James K Edzwald

Professor, University of Massachusetts, USA

Eun Namkung

Professor, Myongji University, Korea

Tony Rachwal

Research and Development Director, Thames Water, UK

Li Zhendong

President, China Water Supply Association, China

Terrence Thompson

Regional Adviser for Environmental Health, WHO Western Pacific Regional Office

18:30- 20:00 **Welcome Reception**

All who have registered to attend the symposium may participate in this reception. We sincerely hope that you will have a wonderful time.

Thursday, 23rd November 2006

10:00- 12:00 **Poster Sessions**

Thirty posters will be on display. Please check the official website for more information on the sessions.

13:00- 17:30 **Oral Technical Sessions**

Waterworks experts from Japan and abroad will report on hot issues. Please check the official website for detailed information.

Session 1: Advanced Water Treatment Technology

Chair: Yoshimasa Watanabe, Professor, Hokkaido University

Removal of pharmaceuticals through continuous operation of column filled with fresh and aged granular activated carbons
Heekyong Oh, Tokyo Institute of Technology

A Study on Reducing the Number of Primary Particles By Two-step Series Rapid Agitation with PACl and Nonionic Polymer
Toshiyuki Kawaguchi, Kitami Institute of Technology

Adsorptive removal of geosmin by ceramic membrane filtration with super-powdered activated carbon adsorption
Yoshihiko Matsui, Hokkaido University

Influence of calcium on the evolution of irreversible fouling in microfiltration/ultrafiltration membranes
Hiroshi Yamamura, Hokkaido University

Membrane-Media Active Collaboration (M-MAC): An Alternative for Solid-Liquid Separation in Drinking Water Treatment
Takashi Sasaki, Hanshin Water Supply Authority

Pilot Study on Combination of Preozonation and Ozonation/Biological Activated Carbon for the Treatment of Bromide-Bearing Source Water
Guo Zhaohai, Research Center for Eco-Environmental Sciences, Chinese Academy of Science, China

Influence of initial mixing conditions on NOM removal and membrane performance in hybrid low-pressure membrane filtration process
Seockheon Lee, Korea Institute of Science and Technology, Korea

Inactivation of Particle-associated Viruses by UV
Jiangyong Hu, National University of Singapore, Singapore

Application of Biofiltration System on AOC Removal: Column and Field Studies
Chuan-Chi Chien, National Sun Yat-Sen University, Chinese Taiwan

Riverbank Filtration: a Promise Technique for Water Supply from Nile, Egypt
Mohamed Shamrukh, Minia University, Egypt

Session 2: Advanced Technologies and Appropriate Management for Water Distribution

Chair: Akira Koizumi, Professor, Tokyo Metropolitan University

The method of function diagnosis and renewal plan for distribution pipelines and networks

Hirohisa Kouzu, Yokosuka City Waterworks and Sewerage Bureau

A Study on Large-Capacity Transmission Main Intersecting with an Active Fault

Masanori Iga, Kobe City Waterworks Bureau

Residual Chlorine Decay Simulation in Water Distribution System

Toru Nagatani, Osaka Municipal Waterworks Bureau

Pipeline Management in Tokyo ---Measures for Leakage Prevention ---

Kazuhiko Fujimura, Bureau of Waterworks, Tokyo Metropolitan Government

An Analysis to Detect a Change of Water Flow and Pressure in Water Pipe Network

Katsuya Yokokawa, TOSHIBA Corporation

Epoch Project: Effective water use in Pipeline Operation Considering High Quality

Yasuhiko Sato, Japan Water Research Center

Bacterial species and variation in the biofilm of water distribution system in Harbin city

Yu Shui-li, Harbin Institute of Technology, China

Water Quality Management at Tai Lam Chung Reservoir in Hong Kong by Real-time Water Quality Data Acquisition System

Wo Ming Chow, Water Supplies Department, Hong Kong, China

Release of organic compounds from polyethylene pipes to drinking water: Effect of physical/chemical parameters

Martin Denberg, Technical University of Denmark, Denmark

Session 3: Development of Water Utility Management

Chair: Shoichi Kunikane, Director, Department of Water Supply Engineering, National Institute of Public Health

The method of function diagnosis and renewal plan for distribution pipelines and networks

Hirohisa Kouzu, Yokosuka City Waterworks and Sewerage Bureau

Evaluation of Water Supply Project by Performance Indicators

Kenei Ishii, Technical Institute, Japan Water Works Association

Technical succession in Tokyo Metropolitan Waterworks Bureau

Chikafusa Sato, Bureau of Waterworks, Tokyo Metropolitan Government

Samukawa Water Purification Plant Sludge Treatment Facility Special Enterprise (Case Study Report)

Satoshi Ito, Public Enterprises Agency, Kanagawa Prefectural Government

Gradual Utilization of PI by the Sapporo City Waterworks Bureau

Makoto Watanabe, Sapporo Waterworks Bureau

A Case of Private Initiatives of Waterworks Department in Saitama Prefecture (Ookubo PFI business)

Akira Sekine, Public Enterprise Bureau in Saitama Prefecture

Development of the Long-term Vision for Yokohama Waterworks and its 10-Year Plan

Genta Yamada, Yokohama Waterworks Bureau

Water supply and strategy in Changchun China

Yin Jun, Jilin Architectural and Civil Engineering Institute, China

China Xiamen Gaodian Waterworks Present Situation and Task

Zhou Lijia, Xiamen Water Group Limited Company, China

Friday, 24th November 2006

9:00- 12:00 General Panel Discussion

This panel discussion aims to provide opportunities for panelists and participants to discuss and exchange their views in accordance with reports by presenters made on the previous days. Issues and perspectives of the world's water supply technology will also be summarized.

Facilitators

Shinichiro Ohgaki

IWA Vice-President, and Professor, the University of Tokyo

Paul Reiter

IWA Executive Director

Panelists

Yasumoto Magara

Professor, Hokkaido University

Yoshimasa Watanabe

Professor, Hokkaido University

Akira Koizumi

Professor, Tokyo Metropolitan University

Shoichi Kunikane

Director of Department of Water Supply Engineering, National Institute of Public Health

Saburo Matsui

Professor, Kyoto University

David Garman

IWA President

Rolf Gimbel

Professor, IWW University of Duisburg-Essen, Germany

James K Edzwald

Professor, University of Massachusetts, USA

Tony Rachwal

Research and Development Director of Thames Water, UK

Eun Namkung

Professor, Myongji University, Korea

Li Zhendong

President, China Water Supply Association

Terrence Thompson

Regional Adviser for Environmental Health, WHO Western Pacific Regional Office

12:00- 12:05 Closing Ceremony

Technical Tours (Option) *Please refer to the 7th page for details.

Water Yokohama 2006 Exhibition 22nd– 24th November 2006

This exhibition will present latest water treatment, distribution, quality control and management system technologies. Waterworks experts from Japan and abroad and customers are all welcome to attend this exhibition.

Please note that the program is subject to change without notice.
Please check the official website for updates.

<http://www.congre.co.jp/iwst2006/>

Registration

- Registration Fees** JPY 30,000 for JWRC or IWA members*
JPY 50,000 for non-members
*Member fees apply to those who are members of the Japan Water Research Center (JWRC) or the International Water Association (IWA).
- Deadline for Online Registration** 20th October 2006
Please note that after 21st October we will accept on-site registration only.
- Payment Method** Once you have completed registration procedures through our website, you will receive a registration number via e-mail. Please check the content of the e-mail and arrange for payment of registration and technical tour fees either by credit card (following the instructions in the e-mail) or by bank transfer* (to our bank account shown below) within one month of your registration. The deadline for bank transfer payment is Tuesday, 31st October. Please note that you will be responsible for all bank charges incurred. All payments must be made in Japanese yen.
After confirmation of payment, a registration card will be sent to you by e-mail.

Bank:	The Bank of Tokyo-Mitsubishi UFJ, Ltd.
Branch:	Tokyo government and public institutions business office
Account code:	1236386
Account name:	The 7th International Symposium on Water Supply Technology
Swift Code/BIC:	BOTKJPJT

*If you transfer money to us without the participant's name and registration number, we cannot guarantee that we will be able to identify the payment.
- Changes in Registration Information** If you need to make any changes to your registered information, e.g. an additional application to attend a technical tour, please notify the Registration Office by e-mail.
E-mail: wateryokohama2006@congre.co.jp
- Cancellation** Please be advised that cancellation requests in writing will be accepted, but fees will apply.
By 20th October 2006 Cancellation charge of JPY 5,000. Remaining balance after deduction of bank and cancellation charges will be refunded.
After 21st October 2006 No refund
- On-site Registration** If we do not reach maximum enrollment from online registrants, we will accept on-site registrations. However, for your convenience we recommend online registration.
- Other Information** All registered participants will receive a conference program and conference proceedings.
- Registration Method** If you are interested in attending this symposium, please register through our website:
<http://www.congre.co.jp/iwst2006/>

For group registration, please contact the Registration Secretariat below.

Water Yokohama 2006 Registration Secretariat
C/o Congress Corporation
Tel: +81-3-5216-5551 Fax: +81-3-5216-5552
E-mail: wateryokohama2006@congre.co.jp

Technical Tours (Option)

Two technical tours are scheduled on 24th November after all the symposium programs are over. We are looking forward to your participation. Acceptance of application will be closed when the maximum number of enrollment is reached.

Tour 1 Visiting Nishiya Purification Plant and Sankeien Garden

Nishiya Purification Plant→Waterworks Commemoration Hall→Waterworks Technology Commemoration Hall and Sankeien Garden

Tour fare: JPY 2,000, Maximum number: 80 persons

Duration: Approx. 4 hours



Nishiya Purification Plant



Sankeien Garden

Tour 2 Hamadori boat cruise around Yokohama port

Departing from the Osanbashi Pier, the Hamadori, Yokohama's marine activity ship, will take you to Yokohama port cruise with splendid sights including Yokohama Bay Bridge.

Tour fare: JPY 500

Maximum number: 180 persons

Departure times: 13:00 and 14:30

Duration: Approx. 2 hours



the Hamadori,
Yokohama's marine
activity ship

Please make a tour application from the registration page of the symposium website.

Please note that tour fares are not refundable under any circumstances.

<http://www.congre.co.jp/iwst2006/>

Hotel Accommodations

JTB, an official travel agency, has reserved a number of rooms at the following hotels in Yokohama for the symposium period. Please make your reservation from our website.

Rates are per person per night, and include breakfast, service charges and tax. An asterisk (*) indicates single occupancy of a twin or double room. Application should be accompanied by payment for total cost plus a JTB handling charge of JPY 525 per room. Personal expenses should be paid directly to the hotel.

Area	No.	Hotel Name	Check-in & out time	Rate per person	
				Single with bath	Twin with bath
Minatomirai	1	InterContinental The Grand Yokohama	(14:00/11:00)	*JPY 22,050	JPY 13,650
	2	The Pan Pacific Hotel Yokohama	(14:00/11:00)	*JPY 19,950	JPY 12,600
	3	Yokohama Royal Park Hotel	(14:00/12:00)	JPY 17,850	JPY 12,600
	4	Navios Yokohama Nov 22/24 Nov 21/23	(14:00/10:00)	JPY 10,395 JPY 9,345	JPY 9,870 JPY 8,820
Sakuragicho	5	Yokohama Sakuragicho Washington Hotel	(14:00/10:00)	JPY 11,025	—
	6	Breezbay Hotel	(14:00/12:00)	JPY 14,500	JPY 11,500
	7	San-ai Yokohama Hotel	(14:00/10:00)	JPY 9,240	JPY 8,190
	8	Yokohama Heiwa Plaza Hotel	(16:00/10:00)	JPY 7,560	JPY 5,880
Kannai	9	Comfort Hotel Yokohama Kannai	(15:00/10:00)	JPY 7,500	—
Yokohama Station	10	Yokohama Bay Sheraton Hotel & Towers	(14:00/12:00)	JPY 16,275	JPY 12,075
	11	Hotel Camelot Japan	(14:00/11:00)	JPY 9,450	JPY 7,875
	12	Hotel Cosmo Yokohama	(14:00/11:00)	JPY 9,450	JPY 7,875

Application and Payment

Participants wishing to reserve hotel accommodations should apply through the Hotel Accommodation page of the symposium website by 20th October 2006. <http://www.congre.co.jp/iwst2006/>

Cancellation

In case of cancellation, written notification should be sent to JTB. The following cancellation charges will apply. Please note that the handling charge of JPY 525 per room is non-refundable.

At least 15 days advance notice: No charge

3-14 days advance notice: 20% of one night room charge

1-2 days advance notice: 50% of one night room charge

No notice or less than 24 hours notice: 100% of one night room charge

*In the event of non-arrival, reservations will be automatically released by the hotel at 09:00 am the following day, unless notification of any delay is given. Cancellation charges will apply.

Optional Tours

Tours on 22nd and 23rd November are designed for those accompanying symposium attendees. A tour on 25th November is open to anyone who is interested.

22nd November (Wed.) Yokohama One Day Bus Tour

Fare: JPY 5,030 per person (including admission fee and lunch)

Sea Bus fare of a sightseeing is not included, please pay on the spot.(JPY 270)

Visit attractive spots in Yokohama such as the Japanese Garden Sankeien, China Town and Yamashita Park.

Pick-up point: InterContinental The Grand YOKOHAMA.



Sankeien Garden

23rd November (Thu.) Kamakura One Day Walking Tour

Fare: JPY 4,800 per person (including admission fees and lunch)

Enjoy walking the town of Kamakura with traditional highlights such as Tsurugaoka Hachimangu Shrine and the Great Buddha.

Pick-up point: JR Sakuragicho Station



Great Buddha

25th November (Sat.) Hakone One Day Bus Tour

Fare: JPY 8,000 per person (lunch not included)

Enjoy views of world famous Mount Fuji as well as Hakone's scenery.

Minimum number of participants: 20

Pick-up point: A bus will come to hotels in the Yokohama area.

Please wear comfortable shoes and dress appropriately for walking.



Mt. Fuji and Lake Ashi

Application and Payment

Participants wishing to make reservations for these tours should apply through the Hotel Accommodation page of the symposium website by 20th October 2006.

<http://www.congre.co.jp/iwst2006/>

In case of cancellation, please notify JTB Yokohama Convention Center shown below. Cancellation charges will apply.

Correspondence:



JTB Yokohama Convention Center IWST2006 Travel Desk
6F, 3-29-1 Tsuruya-cho, Kanagawa-ku, Yokohama, Kanagawa 221-0835 Japan
Phone: +81-45-316-4602 Fax: +81-45-316-5701
E-mail: jtb_convention@jtb.jp

Photos:
©Japan National Tourist Organization

