

## CURRICULUM VITAE

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**Date of Birth** June 29, 1956  
**Sexuality:** Male  
**Qualifications:** Doctor of Engineering, (Urban Engineering),  
The University of Tokyo, Japan; 1984.  
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### Professional Experience

1984-86: Research Associate, Tohoku University, Japan.  
1986-88: Research Associate, Kyushu University, Japan.  
1988-91: Associate Professor, Kyushu University, Japan.  
1991-97: Associate Professor, Ibaraki University, Japan  
1997-98: Associate Professor, University of Tokyo. Japan  
1998- now Professor, University of Tokyo. Japan  
(2005) Director of Research Center for Water Environment Technology  
(1990-1991) Visiting Scholar, Stanford University and University of Illinois  
(2000-2001) Visiting Scholar, Oregon State University and EAWAG

### Research Involvement and Interests:

He has been interested in sustainable urban water management focusing on water pollution control and water environment conservation. He has conducted research on urban drainage management and rainwater & reclaimed water use, urban nonpoint source pollution and modeling water quality dynamics.

#### Urban Drainage Management and Water Quality Dynamics in Urban Region

- Real-time control for urban flood risk management
- Combined Sewer Overflow, Urban Non-point Pollution Runoff
- Reclaimed wastewater use and Rainwater infiltration
- Build-up and wash-off of micro-pollutants (PAHs, and Heavy Metals)

#### Water Quality Evaluation in Water & Wastewater Treatment and in Urban Water Environment

- Characterization of Dissolved Organic Matters (DOM) and Particulate Organic matters (POM)
- Fate and Behavior of DOM in drinking water treatment process
- Assimilable and Biodegradable Organic Matters in treated effluent and reclaimed water

### Service in international journals

Water Research, Editor board member (2008-2017)  
Urban Water Journal, Editorial board member (2009- )  
ACE Environmental Science and Technology, Asian advisory board members (2010-2019)  
Journal of Water Reuse and Desalination, International Editorial Board, (2011-)  
Climate Change Journal, Editorial board member (2015- )

Journal of Water and Environment Technology Co-Editor-in-Chief (2017-)  
International Advisory Board of Hue University's Journal of Earth Science & Environment (2017-)  
ACE Environmental Science and Technology - Water, Editorial Advisory Board (2020-)  
Editorial Board of Water (2020-)  
International Editorial Board of Water Reuse (2021-)

**Association Member:**

International Water Association (IWA), IWA Fellow (2010- 2018), Board of Director (2012- 2018), IWA Distinguished Fellow (2018- )  
Water Environment Federation (WEF)  
Japan Society on Water Environment (JSWE), Board of Director (2000-2017), Vice President (2012- 2015), President (2015-2017), Advisor (2017- )  
Japan Water Works Association (JWWA), Vice chairman of editorial board (2010-2015), Chairman (2015-2019)  
Japan Sewage Works Association (JSWA)  
Japan Society on Civil Engineers (JSCE)  
Society of Environmental Science, Japan, Board of Director (2011-2015)  
Japan Society of Hydrology and Water Resources, Board of Director (2011-2013)

**Awards:**

Japan National Tourism Organization (JNTO) International Conference Contribution Award (Large-scale Conference Category, 2020  
The WET Excellent Paper Award (2019) by Japan Society on Water Environment, 2020  
Best Annual Paper Award (2018) by Japan Society on Water Environment, 2019  
Environmental Conservation Achievement Award of Ministry of the Environment, Japan, 2018  
The 55th Environmental Engineering Research Forum Best Paper Award, 2018  
The 55th Environmental Engineering Research Forum Environmental Technology / Project Award, 2018  
The Japan Society on Water Environment Award, 2017  
The WET Excellent Paper Award (2015) by Japan Society on Water Environment, 2016  
Japan National Tourism Organization (JNTO) International Conference Invitation Contribution Award, 2014  
Science Award by Japan Society on Water Environment, 2011  
Best Annual Paper Award (2008) by Japan Society on Water Environment, 2009  
Best Paper Award by Japan Sewage Work Association, 2008  
Best Paper Award by Japan Society on Water Environment, 2006  
Encouraging Paper Award by Society of Environmental Instrumentation Control and Automation, 2004  
Encouraging Paper Award by Japan Sewage Work Association, 2002  
Best Paper Award by Japan Water Works Association, 2001  
Paper Award of Monthly Journal MIZU, 2001  
Best Paper Award by Japan Society of Civil Engineers, 1995.  
Best Paper Award by Japan Society of Water Pollution Research and Control, 1990.

**Additional Self-Introduction**

Dr. Hiroaki Furumai is a professor of the Research Center for Water Environment Technology, the University of Tokyo. He also has a joint appointment as professor at the Department of Urban Engineering. His research group has conducted research on 1) Sustainable urban drainage management focusing on flood control and wet weather pollution, 2) Control of microbial function in water treatment and microbial community in water

distribution system, 3) Management of unregulated organic matter in water environment and water use.

He was the project leader of the research project entitled by “Development of well-balanced urban water use system adapted to climate change”, which is financially supported by Japan Science and Technology Agency (JST). In the project, they focus on safe and stable water supply in highly-populated metropolitan areas in Asia. Climate change and increased water demand through rapid urbanization have caused more severe water scarcity. Concern about the sustainability of urban water use is the strong motivation to understand the potential use of rainwater and reclaimed water in urbanized cities. He conducted the JST research project entitled by “Real-time Prediction and Control of Urban Flood Risk”. The project realizes the advanced control of urban drainage facilities based on integrated management of river and drainage networks by developing a novel inundation forecast model that can integrate meteorological observation and rainfall forecast information.

He received his doctoral degree in 1984 from the University of Tokyo. He was a member of Board of Director of International Water Association (IWA) since 2012 and then organized the World Water Congress and Exhibition at Tokyo in 2018. He is IWA Distinguished Fellow after working as IWA fellow 2010. He was a vice president (2014-2017), the president (2016-2017) and is now an advisor (2017- ) of the Japan Society on Water Environment. He is the co-Editors-in-Chief of Journal of Water and Environment Technology. He contributed to several scholarly journals as an editor, including Water Research and Urban Water Journal.

**Social contributions (Council and Committee members etc.)**

- Ministry of the Environment: Central Environment Council member, Chairperson of Water Environment and Soil Pesticide Subcommittee etc.
- Ministry of Health, Labor and Welfare: Health Science Council member, Chairperson of Living Environment Water Services Subcommittee, Member of Health Crisis Management Subcommittee etc.
- Ministry of Land, Infrastructure, Transport and Tourism: Member of Water Resources Development Subcommittee (National Land Council) , Committee member of River subcommittee and City Planning / Historical Climate Subcommittee (Social Capital Development Council) etc.