

Koji IKEUCHI

Professor

River and Environmental Laboratory

Department of Civil Engineering, The University of Tokyo

Research field

Water-Related Disasters and Disaster Risk Management
Risk Assessment of Water Disaster
Conservation and Restoration of River Environment
Policy on water and disaster management

Professional Experience

2016 – present Professor, Department of Civil Engineering, School of Engineering, The University of Tokyo
2015 – 2016 Vice-Minister for Engineering Affairs, Ministry of Land, Infrastructure and Transport (MLIT)
2014 – 2015 Director-General, Water and Disaster Management Bureau, MLIT
2013 – 2014 Director-General, Kinki Regional Development Bureau, MLIT
2009 – 2013 Director, River Planning Division, Water and Disaster Management Bureau, MLIT
2006 – 2009 Director for Earthquake, Volcanic and Large-scale Flood Disaster Management, Cabinet Office
2001 – 2006 MLIT
1982 – 2001 Ministry of Construction (the predecessor of MLIT)

2015 – 2017 Visiting Professor, Kyoto University
2015 – 2017 Visiting Professor, Nihon University
2012 – 2016 Visiting Professor, University of Tsukuba
2011 – 2014 Part-time Lecturer, Tokyo Institute of Technology
1998 – 1998 Part-time Lecturer, Chuo University

Education

2011 Doctor of Engineering, The University of Tokyo
1982 Master of Engineering, The University of Tokyo
1980 Bachelor of Engineering, The University of Tokyo

Academic Committees

2010 – present Editorial Board Member, Ecology and Civil Engineering Society
2016 – 2017 Committee members on conservation and restoration policies of river environment, Ministry of Land, Infrastructure and Transport
2017 Committee member for the renovation vision of dam, Ministry of Land, Infrastructure and Transport
2016 – 2017 Committee member of the Guidelines for Evaluation / Propagation Manual for Evacuation Recommendations, Cabinet Office
2014 – 2015 Policy Board Member, The Headquarters for Earthquake Research Promotion

2014	The Chairman of Kansai Branch, Japan Society of Civil Engineers
2013 – 2014	The Chairman of Kansai Branch, The Japanese Geotechnical Society
2012 – 2014	IRDR Subcommittee Policy Subcommittee Member, Civil Engineering and Architecture Committee, Japan Science Council
2010 – 2011	Basic Strategy on International Cooperation in the Field of Disaster Management Subcommittee Member, Committee on International Cooperation for Natural Disaster Reduction, Science Council of Japan
2007 - 2009	Technical Committee Member, The Headquarters for Earthquake Research Promotion
1998 – 2003	The Secretary of River Subcommittee, Hydroengineering Committee, JSCE

Journal Articles

- 1) Koji IKEUCHI : ELUCIDATION OF THE IMPLEMENTATION PROCESS OF POLICIES ON CONSERVATION AND RESTORATION OF THE NATURAL ENVIRONMENT IN RIVER ADMINISTRATION AND FUTURE TASKS, Advances in River Engineering, JSCE, Vol.23, 2017, 567-572, 2017.
- 2) Naoto TADA, Koji IKEUCHI, Masayoshi HIROSE, Takanori KURIBAYASHI, Hirokuni SARUWATARI, Hiroyuki ITO, Keijiro KUBOTA, Hiroyuki OONAMI, Atsushi ODAGIRI, Yuriko ASAMI : DEVERLOPMENT OF AN ANALYSIS OF HOUSE DAMAGE BY FLOOD, Advances in River Engineering, JSCE, Vol.19, 271-276, 2013.
- 3) Naoto TADA, Koji IKEUCHI, Masayoshi HIROSE, Takanori KURIBAYASHI, Hirokuni SARUWATARI, Hiroyuki ITO, Keijiro KUBOTA, Hiroyuki OONAMI, Goji IKEDA : DEVELOPMENT OF QUANTITATIVE ESTIMATION OF LIFELINE DAMAGE BY FLOOD, Advances in River Engineering, JSCE, Vol.19, 265-270, 2013.
- 4) Koji IKEUCHI, Shigeo OCHI, Hideaki FUJIYAMA, Goro YASUDA, Jiro OKAMURA and Masashi AONO : ESTIMATES OF THE NUMBER OF FATALITIES IN CASE OF LARGE-SCALE FLOODS WITH EFFECTIVENESS ANALYSIS OF THE MITIGATORY OPERATIONS, Journal of JSCE, B1 (Hydraulic Engineering) 69 (4), I_1651 - I - 1656, 2013.
- 5) Koji IKEUCHI, Shigeo OCHI, Goro YASUDA, Jiro OKAMURA and Masashi AONO : ESTIMATES OF INUNDATION OF SUBWAYS DUE TO LARGE-SCALE FLOODS AND AN ANALYSIS OF EFFECTIVENESS OF MITIGATION MEASURES, Journal of JSCE, B1 (Hydraulic Engineering), Vol.68, No. 3 p. 136-147, 2012.
- 6) Koji IKEUCHI, Shigeo OCHI, Goro YASUDA, Jiro OKAMURA and Masashi AONO : ESTIMATES OF THE NUMBER OF STRANDED PERSONS AND THE RESCUE WAITING TIME IN CASE OF LARGE-SCALE FLOODS WITH EFFECTIVENESS, ANALYSIS OF THE MITIGATORY OPERATIONS, Journal of JSCE, B1 (Hydraulic Engineering), Vol. 67, No. 3 p.145-154, 2011.
- 7) Koji IKEUCHI, Shigeo OCHI, Goro YASUDA, Jiro OKAMURA and Masashi AONO : INUNDATION PATTERNS AND FATALITY ANALYSIS ON LARGE-SCALE FLOOD, Journal of JSCE, B1 (Hydraulic Engineering), Vol. 67 (2011) No. 3 P 133-144.
- 8) Takashi Yokota, Ikeuchi Koji, Yahagi Tomohiro, Kaida Yasuhiro, Suzuki Haruhiko : Attenuation and Amplification of Long-Period Component of Ground motion, The Journal of Japan Association for Earthquake Engineering, Vol.1, No1.81-101, 2011.
- 9) Koji IKEUCHI, Natsuo ITO : Damage Estimation of the Next Tokyo Metropolitan Earthquake and Mitigation Measures, Journal of Geography, 116(3/4) 490-503,2007.
- 10) Koji IKEUCHI, Hiroki TANIDA, Kenji INAGAKI, Takashi SASAKI, Tsuneo UESAKA : Strong Motion Measurement and Seismograph Network for Dams in Japan, Proc. 21st ICOLD Congress, Montreal, Canada, Q.83 - R.38, 2003.
- 11) Koji IKEUCHI, Kenji KANAO : The approach and the issue to conservation and

- restoration for river environment in Japan (Review paper) : Ecology and Civil Engineering, Vol.5, No2, 205-216, 2003.
- 12) Yoshihiro ISHIBASHI, Koji IKEUCHI, Takashi OZAWA : CONSERVATION AND RESTORATION OF RIVER ENVIRONMENT, Advances in River Engineering, JSCE, Vol 7, 7-12, 2001.
 - 13) Satoru OTANI, Hiroshi IWASE, Norihiro FUKASAWA, Koji IKEUCHI : A STUDY ON THE APPLICATION OF CVM TO THA RIVER PROJECTS, Advances in River Engineering, JSCE, Vol.6, 231-236, 2000.
 - 14) Takashi YUASA, Takeru KINOSHITA, Koji IKEUCHI, Eiji TOKUYAMA, Kazuhiro KATOH : Prediction of Appearance of Aquatic Organisms by Multivariate Analyses, Papers on Environmental Information Science, No.12, 245-250, 1998.
 - 15) Kouji IKEUCHI, Yoshihisa NUMATA, Hiroyuki OHNO, Kiyoshi MAMIYA : A planning method of river channel considering fractal of nature, Advances in River Engineering, JSCE, Vol.4, 105-110, 1998.
 - 16) Shuichi ASARI, Koji IKEUCHI, Yukio OGAWA, Hisato MITERA, Noriyosi MATSUMURA : Study on a method of river bank protection using geosynthetic materials, Advances in River Engineering, JSCE, Vol.4, 99-104,1998.
 - 17) Shuichi ASARI, Koji IKEUCHI, Hisato MITERA : Basic Study on a method of river bank protection using geosynthetic materials, Advances in River Engineering, JSCE, Vol.3,99-106, 1997.
 - 18) Tadashi HIBINO, Shoji FUKUOKA, Koji IKEUCHI : CHARACTERISTICS OF INTERNAL CURRENTS IN ENCLOSED BRACKISH LAKE WITH SEASONAL AND DAILY PRESSURE DISTRIBUTION CHANGE, Journal of JSCE, No579 / II -41, pp.93-103, 1997.
 - 19) Tadashi HIBINO, Koji IKEUCHI, Shoji FUKUOKA : Measurement of currents in enclosed blackish waters, Annual journal of hydraulic engineering, JSCE, Vol.40, 461-466, 1996.
 - 20) Nobuyuki Tamai , Kouji Ikeuchi : Longitudinal and transverse variations of the depth-averaged flow fields in a meandering channel, Journal of Hydrosience and Hydraulic Engineering Vol.2 , No.2, pp.11-33, 1984.
 - 21) Nobuyuki Tamai, Kouji Ikeuchi, Akira Yamazaki, Ali A. Mohamed : Experimental analysis of the open channel flow in rectangular continuous bends, Journal of Hydrosience and Hydraulic Engineering Vol.1 No.2, pp.17-31, 1983.
 - 22) Nobuyuki TAMAI, Kouji IKEUCHI, Akira YAMAZAKI : EXPERIMENTAL ANALYSIS OF THE OPEN CHANEL FLOW IN CONTINUOUS BENDS, Journal of JSCE, No.331, 83-94, 1983.
 - 23) Kouji IKEUCHI, Nobuyuki TAMAI : EVOLUTION OF THE DEPTH-AVERAGED FLOW FIEELD IN MEANDERING CHANNELS, Journal of JSCE, No.334, 89-101, 1983.

Books

- 1) Floodplain Risk Management , A.A.BALKEMA / ROTTERDAM / BROOKFIELD、357p,1998. (Koji IKEUCHI wrote the chapter “The history of flood control and floodway projects of the Hiikawa River”)
- 2) Principles in Eco-Compatible River Basin Management, 520p, University of Tokyo Press, 2004.(Koji IKEUCHI wrote chapter 3 and 11.)
- 3) River and Nature, 153p, Rikoh Tosho,2000.(joint authorship)
- 4) Basic knowledge of river vegetation, Japan River Front research Center, 65p, 2000.(joint authorship)
- 5) Nature Oriented River Works - Guidebook for protecting riparians- , Japan

- River Front research Center, 305p, 2002.(joint authorship)
- 6) Construction of multipurpose dam, Japan Dam Engineering Center, 1833p,2005.(Editorial committee member)
 - 7) Rivers in Japan, Asakura Publishing Co.Ltd., 173p, 2919.(joint authorship)

Invited lecture, keynote speech or presentation on international conference

- 1) Koji Ikeuch (Keynote Presentation) : "New Climate Change Adaption Strategy for Water-related Disaster Management in Japan", Sixth Meeting of High-level Experts and Leaders Panel on Water and Disasters (HELP), 2015.
- 2) Koji Ikeuchi : "New Initiatives to Tackle on Intensified Water-related Disasters", "U.S. - Japan Symposium on damage mitigation of large-scale water related disasters", 2015.
- 3) Koji IKEUCHI (KEYNOTE SPEAKER) : "Responding to Intensifying Disasters ~Importance of Prevention Measures, Effectiveness of Flood Countermeasures~, The 23rd Meeting of the United Nations Secretary-General's Advisory Board on Water and Sanitation, 2014.
- 4) Koji IKEUCHI : "Tsunami Disaster Countermeasures Based on the Lessons Learned from the Great East Japan Earthquake, First Meeting of High-level Experts and Leaders Panel on Water and Disasters (HELP), 2013.
- 5) Koji IKEUCHI : Future Tsunami Disaster Countermeasures Based on the Lessons Learned from the Great East Japan Earthquake, Preliminary Meeting for the Disaster Management Collaboration Dialogue (Japan-The Kingdom of Thailand) , 2013.
- 6) Koji IKEUCHI : "Future Tsunami Disaster Countermeasures Based on the Lessons Learned from the Great East Japan Earthquake", 8th Meeting on Flood Management & Water Resources Management USACE and MLIT of Japan, 2012.
- 7) Koji IKEUCHI : "MLIT's emergency response to the Great East Japan Earthquake and recent policy changes regarding tsunami disaster countermeasures", "Seminar on Sharing Lessons from Great East Japan Earthquake "How can lessons from Tohoku be shared with the world", 2012.
- 8) Koji IKEUCHI : "MLIT's emergency response to the Great East Japan Earthquake and recent policy changes regarding tsunami disaster countermeasures , "Japan - UNESCO - UNU INTERNATIONAL SYMPOSIUM The Great East Japan Tsunami on 11 March 2011 and Tsunami Warning Systems: Policy Perspectives", 2012.
- 9) Koji IKEUCHI : Disaster Mitigation Measures against Mega-Water Disasters, "7th Meeting on Flood Control and Water Resources Management between USACE and MLIT of Japan", 2011.
- 10) Koji IKEUCHI : "Disaster Mitigation Measures against Mega-Water Disasters- Learning from the experiences of Great East Japan Earthquake & Tsunami and Niigata Torrential Rain Disasters -",11th Japanese-French Seminar on Water Management for River, Lakes and Marshes, 2011.
- 11) Koji IKEUCHI : Disaster Mitigation Measures against Mega-Water Disasters - Learning from the experiences of Great East Japan Earthquake & Tsunami and Niigata Torrential Rain Disasters - , International Forum on Mega-Water-Disasters (Co-convened by MLIT, WMO, UNESCO, UNU, High Level Expert Panel on Water and Disaster (HLEP/UNSGAB) ; Supported by Cabinet Office, MOFA, MOF) , 2011.
- 12) Koichi IKEUCHI : Climate Change Adaptation for Water related disasters in Japan, Japanese-French Water Forum2010, 2010.
- 13) Koji IKEUCHI : "Risk Assessment of Water-related Disasters for Climate

Change Adaption , 6th Meeting on Flood Control & Water Resources
Management USACE and MLIT of Japan 2010.