Toshinori MAKUTA

Department of Mechanical Systems Engineering, Graduate School of Science and Engineering, Yamagata University

Education	
1995-1999	Faculty of Engineering, University of Tokyo
	Awarded the degree of BSc in Mechanical Engineering
1999-2001	Graduate School of Frontier Sciences, University of Tokyo
	Awarded the degree of MSc in environmental study for a thesis entitled
	"The development of micro-bubble generation system".
	Work supervised by Associate Professor Fumio TAKEMURA
2002-2005	Graduate School of Frontier Sciences, University of Tokyo
	Awarded the degree of PhD in environmental study for a thesis entitled
	"Micro-bubble generation mechanism in an ultrasonic acoustic field".
	Work supervised by Professor Eiji HIHARA and Dr. Fumio TAKEMURA
Employment	
2001-2002	Researcher at Robot Laboratory, FANUC Co., Ltd.
2005-2007	Postdoctoral Researcher at Energy Technology Institute,
	National Institute of Advanced Industrial Science and Technology
2007-2014	Assistant Professor, Department of Mechanical Systems Engineering,
	Faculty of Engineering, Yamagata University
2014-Present	Associate Professor, Department of Mechanical Systems Engineering,
	Faculty of Engineering, Yamagata University

Research Interests

- 1. Experimental Fluid Mechanics
 - Especially bubble dynamics, oscillatory flow, capillary wave, medical and engineering application with micro-bubbles.
- 2. Micro/Nano Particle Fabrication and Application
 - Especially hollow microcapsules directly fabricated from microbubbles.
- 3. Sonochemistry with Ultrasonically Generated Microbubbles

Membership of Academic Societies

- 1. Japan Society of Mechanical Engineers (JSME)
- 2. Society of Chemical Engineers, Japan (SCEJ)
- 3. Japanese Society for Multiphase flow (JSMF)
- 4. Japanese Society for Experimental Mechanics (JSEM)

Award

- 1. JSME Young Engineers Award (2007)
- 2. Incentive Award of Intelligent-Cosmos Foundation (2009)
- 3. JSEM Technology Award (2012, 2013)
- 4. Prize for Outstanding Educators Yamagata Univ. (2013)
- 5. SCEJ Fluid Particle Processing Division Frontier Award (2014)