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Academic Qualification

Ph.D in Engineering, Division of Advanced Production Science and Technology (2015)

Gunma University, Japan

Thesis: "Observation of Free Surface Flow Behavior Using Laser Tagging Method by Photochromic Dye Tracer"

Master in Mechanical System Engineering (2012)

Gunma University, Japan

Thesis: "Measurement of Liquid Film Flow on Inclined Wall using Photochromic Dye Marking Method"

Bachelor in Mechanical System Engineering (2010)

Gunma University, Japan

Thesis: "Analysis of Liquid Film Flow Using Photochromic Dye Marking Method"

Brief Profile

My research focuses on the fundamental study of liquid flow associated with industrial technology or environment system. I have worked on the analysis in various liquid flow fields such as liquid sheet injected from nozzle, liquid film flows on inclined wall and liquid film flows in between two plates. The analysis study includes the liquid velocity, strain and thickness measurement.

Research Publications

Rosli, N., Toyooka, Y. and Amagai, K.: Velocity and Vorticity Measurement in Flow Field Using Laser Tagging Method by Photochromic Dye, *Journal of Japanese Society for Experimental Mechanics*, 11-Special Issue (2011), 147-152.

Rosli, N. and Amagai, K.: Simultaneous Measurement of Liquid Surface and Wave Velocities for Falling Liquid Films, *Journal of Japanese Society for Experimental Mechanics*, 14-Special Issue (2014), 19-24.

Rosli, N. and Amagai, K.: Measurement of Liquid Sheet Using Laser Tagging Method by Photochromic Dye, *Experiments in Fluids*, 55-12 (2014), Paper no. 1843.