International Symposium on Advanced Manufacturing Science for Future Systems

"Biomimetics"

Date: 5th December, 2016

Venue: Faculty Engineering Building No.2, room 213

Organized by

Department of Precision Engineering, School of Engineering

The University of Tokyo

Program

Moderator: Prof. Naoe Hosoda (Dept. Precision Engineering, U. Tokyo)

13:00-13:05	Opening address Prof. Hiromasa Suzuki (Chair of Dep. Precision Engineering, U. Tokyo)
13:05-13:35	Insect-Machine Hybrid System Prof. Ryohei Kanzaki (Director of RCAST, U. Tokyo)
13:35-14:05	Biomimetic and architecture: Learning from nature for future buildings Prof. Thomas Speck (Director of Botanic Gardens, U. Freiburg)
14:05-14:35	Meter-scale large area sensors with reel to reel micro machining and weaving integration, Associate Prof. Seiichi Takamatsu (GSFS, U. Tokyo)
14:35-15:05	Impact Protection Inspired by Nature Dr. Marc Thielen (U. Freiburg)
15:05-15:35	Beetle-inspired deployable structures Assistant Prof. Kazuya Saito (IIS, U. Tokyo)
Break	
	Moderator: Prof. Tadatomo Suga (U. Tokyo)
15:50-16:20	Tight junction: Learning from the climber Passiflora discophora how to improve technical anchorage systems, Ms. Stefanie Schmier (U. Freiburg)
16:20-16:50	Self-oscillating polymer gels as novel biomimetic materials Prof. Ryo Yoshida (Dep. of Materials Engineering, U. Tokyo)
16:50-17:20	Fibrous multilayered plant structures with high energy dissipation capacity as source of inspiration for impact protection in architecture, Dr. Georg Bauer (U. Freiburg)
17:20-17:50	Revolution of transdermal drug delivery by dissoluble micro needles Prof. Beomjoon Kim (IIS, U. Tokyo)
17:50	Closing Address Prof. Thomas Speck (U. Freiburg), Prof. Tadatomo Suga (U. Tokyo)