



# International Workshop on Extended-Nano Fluidics

**Dates**

March 26 (Thu.) to 27 (Fri.), 2015

**Venue**

Koshiba Hall, The University of Tokyo

The International Workshop on Extended-Nano Fluidics is the initial workshop focused on nanoscale engineering (nanochannels fabrication, fluid control, detection), nanoscale liquid properties/fluid science, and applications in a range of fields, such as biology, medicine and energy engineering. We expect to bring together an outstanding group of scientists, who stand at the forefront of research, to intensively discuss the latest results and perspectives of this new science and engineering field.

## Program

### March 26 (Thu.)

Contribution		Time		Speaker	Title
Opening		8:45	9:00		
Plenary		9:00	9:40	Jan Eijkel (Twente Univ.)	Small is powerful: nanofluidics for nanomachining, energy generation and cavitation
Nanofluidics & Engineering	Invited	9:40	10:00	Jongyoon Han (MIT)	Nanofluidics for rapid protein analysis
	Invited	10:20	10:40	Kazuma Mawatari (Univ. Tokyo)	Engineering extended-nano space for single molecule immunoassay
Poster		10:20	11:50	Invited & Contributed	
Lunch		11:50	13:30		
Plenary		13:30	14:10	Albert van den Berg (Twente Univ.)	To be determined
Liquid properties & Fluid Science	Invited	14:10	14:30	Anne-laure Biance (Université de Lyon)	Ionic and fluidic transport through BN nanotubes and nanopores
	Invited	14:30	14:50	Hirofumi Daiguji (Univ. Tokyo)	Water transport in silica nanopores
	Invited	14:50	15:10	Hiroshi Ushiyama (Univ. Tokyo)	Theoretical studies on the mechanism of proton transfer among high density acid groups in polymer electrolyte fuel cells
	Invited	15:10	15:30	Yutaka Kazoe (Univ. Tokyo)	Liquid/fluid properties in extended nanospace
Poster		15:30	17:00	Invited & Contributed	
Banquet		18:00	20:00		

### March 27 (Fri.)

Plenary		8:30	9:10	Takehiko Kitamori (Univ. Tokyo)	Extended nanofluidics for novel functional devices
Applications	Keynote	9:10	9:40	Stephen C. Jacobson (Indiana Univ.)	Nanofluidic Devices for Characterizing Assembly of Hepatitis B Virus Capsids
	Invited	9:40	10:00	Noritada Kaji (Nagoya Univ.)	DNA separation by nanopillars and nanowires
	Invited	10:00	10:20	Yuriy Pihosh (Univ. Tokyo)	Light driven fuel cell by integrating photocatalytic reaction and enhanced proton transport
Poster		10:20	11:50	Invited & Contributed	
Lunch		11:50	13:30		
Tour of Shin-Kawasaki		13:30			

Poster presentation:

Abstract deadline: February 25th, 2015

Registration:

Registration: free of charge, Banquet: to be charged

Mail following information to executive committee [symposium@icl.t.u-tokyo.ac.jp]

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