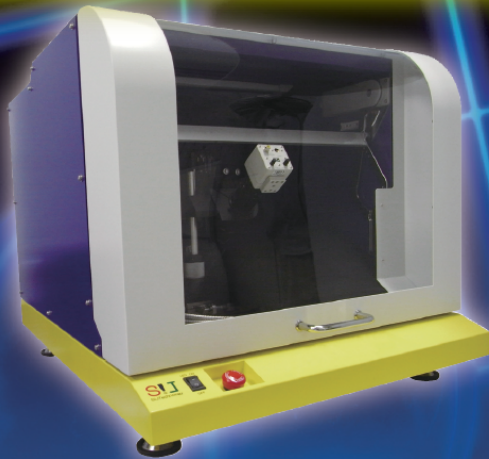


# Super Inkjet SEMINAR

**Academic & Research Center ARC-106**  
**4:30PM-5:30PM, SEP 18<sup>th</sup> 2018**



## Features

### Smallest droplet

Droplet volume : 0.1 fL(femtoliter) - 10 pL

### Wide range of viscosity

Viscosity range : 0.5 - 10,000cps (non-heated)

### Researcher-proven

Many relevant patents and papers

Speaker : Dr. Kazuhiro Murata

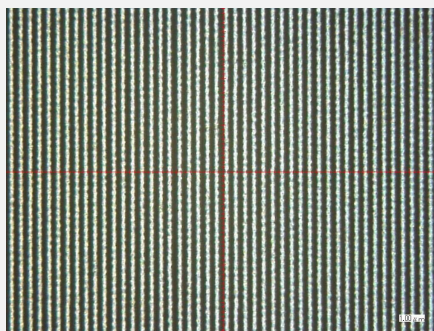
SITechnology, Inc., CEO, Inventor of Super Inkjet technology

## **Title : Direct fabrication of micron-scale structures using Super Inkjet**

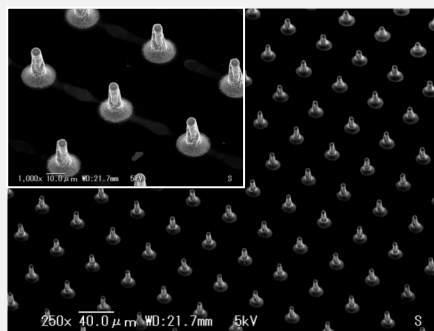
**Abstract :** We have developed a super-fine inkjet technology (SIJ) that enables extremely fine pattern formation using droplets measuring less than 1 micrometer in diameter. By using conductive ink based on nano-metal particles, direct fabrication of circuits and three-dimensional structures having a feature size of just a few microns are achieved. Moreover the SIJ is capable of printing with a wide variety of inks, for example, insulators, organic semiconductors, light emitting polymers, bio-materials and UV curable polymers. The potential of the SIJ technology and its application to cutting-edge areas, such as flexible electronics, printed electronics, fine interconnect and others will be shown.

**Come and find out more about a unique interdisciplinary nano-building tool.**

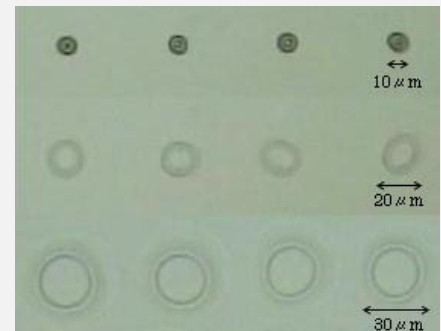
***If you would like to meet with Dr. Shimizu after the talk, please email  
Dr. Savas Kaya (kaya@ohio.edu)***



Silver ink, L/S=1 $\mu$ m



Microbumps  
d=5 $\mu$ m, H=20 $\mu$ m



Protein material  
(albumin)