

## OS12: Flow Realization, Measurement and Visualization

### CON-2

November 8, 2018

9:00-9:20 OS12-1

Time Lapse Observation of PDMS-Curing Process using SMT

R. Iwao, Y. Matsuda, H. Yamaguchi, T. Niimi

9:20-9:40 OS12-2

Experimental and Numerical Study on Plume Velocity Measurement Using TDLAS Technique

A. Song, J. Li, N. Wang, Z. Qin, M. Li, Y. Yang

9:40-10:00 OS12-3

Application of PIV to an Abrasive Jet Issuing from a Fan Jet Nozzle

Y. Oguma, G. Peng, S. Shimizu

10:00-10:20 OS12-4

Charge Flow Investigation of Un-Fueled Prechamber for the Gasoline Engine

G. Nyamsuren, Y. Ogami, H. Asada

10:40-11:00 OS12-5

Numerical Simulation of Mixing Performance in a Blade Free Planetary Mixer

T. Yamagata, N. Fujisawa

11:00-11:20 OS12-6

Flow Visualization of Stirred Tank Reactor with Rotating Jet

M.T. Azam, D. Kang, H. Hirahara, K. Murata, Y. Shimoji

11:20-11:40 OS12-7

Visualization of Particle Motion in Microchannels with Different Filter Structure

T. Nishimura, A. Kitagawa, P. Denissenko, Y. Hagiwara

11:40-12:00 OS12-8

Flow Visualization of Secondary Instability and Breakdown of a Two-Dimensional Water Sheet Emitted into the Air

D. Imada, T. Ito, M. Matsubara

12:00-12:20 OS12-9

A New Microfluidic Droplet Generating System for Use in On-chip Production of Microgels

H. Shieh, M. Saadatmand, M. Eskandari, D. Bastani, A. K. Jahromi

13:10-13:50 OS12-10

*Invited*

Flow Realization in the High Enthalpy Shock Tunnel HIEST

K. Ito

13:50-14:10 OS12-11

Measurements on the Wake and Aerodynamic Characteristics of a Flat Plate Moving near Stationary Ground and the Fluid Force

K. Yamaguchi, T. Inoue, Y. Seki, I. Miura, K. Hirata

14:10-14:30 OS12-12

High Lift Wing in Ground Effect with Gurney Flap

G.S. Pallha, S.D. Sharma

14:50-15:10 OS12-13

Fundamental Evaluation of a Pulse Wave Measurement System Mimicking Pulse Diagnosis Using a Wrist Pulsatile Blood Flow Model

T. Tsuboi, A. Shirai, S. Miyauchi, T. Hayase

15:10-15:30 OS12-14

Fundamental study of Three-Dimensional Ultrasonic-Measurement-Integrated Blood Flow Analysis System: Blood Vessel Shape Extraction

H. Kudo, S. Miyauchi, T. Hayase, K. Inoue

15:30-15:50 OS12-15

Observation of Screech Tone in Underexpanded Supersonic Jet by High-speed Schlieren Imaging

K. Ozawa, K. Fujisawa, T. Yamagata, N. Fujisawa

15:50-16:10 OS12-16

Experimental Study on a Flow Deflector for Diffuser

J. Yoshida, T. Ozaki, K. Hirata

16:30-16:50 OS12-17

Numerical Visualization of Reynolds Stress Destruction in a Plane Jet

M. Takahashi, K. Iwano, Y. Sakai, Y. Ito

16:50-17:10 OS12-18

Measuring Nucleate Boiling in Impacting Drops using a Combined Total-Internal-Reflection and Back-Lighting Imaging

M. Shirota, M. Kato, T. Kawasaki, Y. Konno, S. Fujii, T. Okabe, T. Inamura

17:10-17:30 OS12-19

An Investigation of Measuring Flow Angularity in the Tri-sonic Wind Tunnel with a Rake of 5-Hole Pressure Probes on AGARD Model

H.-Y. Chou, J.-K. Ouyang, J.-N. Hsu

17:30-17:50 OS12-20

Quantization of intermittency factor in two dimensional channel flow of polymer additive water

Y. Endo, S. Yimprasert, T. Tsumura, M. Matsubara