

# **LPM2004 Award-Winners**

## **The LPM2004 Outstanding Oral Paper Award**

Session 5: 3D nano and microfabrication

**“Laser-driven multi-degrees-of-freedom nanomanipulators produced by two-photon microstereolithography”**

**Associate Prof. Shoji Maruo**  
Yokohama National University, Japan

**Prof. Koji Ikuta**  
Nagoya University, Japan,  
**Mr. Masafumi Ogawa**  
Nagoya University, Japan

Session 9: Joint Session (Ultrafast laser processing of glass/ceramics) 2

**“3D integration of microoptics and microfluidics in glass using a femtosecond laser direct-writing”**

**Dr. Ya Cheng**  
RIKEN - The Institute of Physical and Chemical Research, Japan

**Dr. Koji Sugioka**  
RIKEN - The Institute of Physical and Chemical Research, Japan

**Dr. Katsumi Midorikawa**  
RIKEN - The Institute of Physical and Chemical Research, Japan

Session 22: Manufacture of micro devices and systems

**“Application of laser direct-write techniques for embedding electronic and micropower components”**

**Dr. Alberto Pique**  
Naval Research Laboratory, USA  
**Prof. Scott A. Mathews**  
Catholic University of America, USA

**Mr. Ray C.Y. Auyeung**  
Naval Research Laboratory, USA

**Prof. Craig B. Arnold**  
Princeton University, USA

**Dr. Michael Ollinger**  
Naval Research Laboratory, USA

**Dr. Heungsoo Kim**  
Naval Research Laboratory, USA

**Dr. Tom E. Sutto**  
Naval Surface Warfare Center Dahlgren Div., USA

## *The LPM2004 Student Paper Award (Oral)*

Session 22: Micro machining

**“Micromachining of transparent materials by laser-induced plasma-assisted ablation (LIPAA)”**

**Mr. Yasutaka Hanada**

RIKEN - The Institute of Physical and Chemical Research, Japan

Session 24: Drilling and cutting

**“Melt ejection during percussion drilling of micro holes in stainless steel and nickel-based superalloy by pulsed Nd:YAG laser radiation”**

**Mrs. Lena Trippe**

Lehrstuhl für Lasertechnik, Germany

## *The LPM2004 Outstanding Poster Paper Award*

**“Laser direct write for release of SiO<sub>2</sub> MEMS and nano-scale devices”**

**Dr. Henry Helvajian**

The Aerospace Corporation, USA

**Ms. Meg H. Abraham**

The Aerospace Corporation, USA

## *The LPM2004 Student Paper Award (Poster)*

**“Development of EUV light source by CO<sub>2</sub> laser-produced plasma with nano-structured SnO<sub>2</sub> targets”**

**Mr. Hiroki Tanaka**

Kyushu University, Japan