LIC'16 Invited papers and speakers

Wednesday, May 18

The Latest Technology Demand of the Internal Processing Type Laser Dicing Technology
N. Uchiyama and T. Takahashi
Hamamatsu Photonics, Japan

From analytics to material processing: the versatile microlaser and its applications
A. Kevorkian
Teem Photonics, France

Thursday, May 19

Opening remarks for LIC
T. Taira
Inst. Mol. Sci., Japan

Message for LIC16 from OSA (tentative)
M. Russell
OSA (The Optical Society), USA

Estimating the Size of the Photonics Market
P. F. Hallett
SPIE (The International Society for Optics and Photonics), USA

Message from SFO for LIC'16
B. Boulanger
SFO (La Société Française d'Optique), France

Laser Applications in Engine Combustion Research -Diagnostics and Ignition-
K. Akihama
Nihon Univ., Japan

Temporally and spectrally resolved measurement of spark discharge in a spark ignition engine

N. Kawahara
Okayama Univ., Japan

Total design of high power VCSEL pumped passively Q-switched micro-lasers for laser ignition

T. Suzudo[1], K. Hagita[1], T. Ikeo[1], K. Izumiya[1], N. Jikutani[1], Y. Higash[1], and T. Taira[2]
[1]Ricoh Co. Ltd., Japan, [2]Inst. Mol. Sci., Japan

Remote analysis technique under severe environments using LIBS

H. Ohba[1], M. Saeki[1], I. Wakaida[1], T. Sakka[2], and B. Thornton[3]
[1]Collaborative Lab. Advanced Decommissioning Sci., JAEA, Japan, [2]Graduate School of Eng., Kyoto Univ., Japan, [3]Inst. Industrial Sci., Univ. Tokyo, Japan

Development of UV Microchip Lasers for Compact MALDI Spectroscopy Systems

R. Bhandari[1], K. Tojo[1], and T. Taira[2]
[1]Shimadzu Co., Japan, [2]Inst. Mol. Sci., Japan

A Flange-Mounted UV Microchip Laser for Imaging Mass Spectrometry

T. Sakamoto[1], K. Ohishi[1], Y. Furukawa[2], L. Zheng[3] and T. Taira[3]
[1]Depart. Appl. Phys., Kogakuin Univ., Japan, [2]Oxide Co., Japan, [3]Inst. Mol. Sci., Japan

Development of Ultra-compact Pulse Lasers and Applications by Giant micro-photonics

Y. Sano
ImPACT, Japan

Physical and Chemical Problems of Laser Ignition

R. Shen, L. Wu, S. Chen, W. Zhang, J. Xu, and Y. Ye
Depart. Appl. Chem., Nanjing Univ. Sci. Tech., China

Friday, May 20

Multi-point laser ignition for in-combustion event feedback control of an automobile engine

G. Dearden[1], Z. Kuang[1], E. Lyon[1], H. Cheng[2], V. Page[2], and T. Shenton[2]
[1]Laser Group, School of Eng., Univ. Liverpool, UK, [2]Powertrain Control Group, School of Eng., Univ. Liverpool, UK

Laser Ignition Systems for Space Propulsion Applications

C. Manfletti and M. Börner
DLR, Inst. Space Propulsion, Germany

Terahertz-wave technology based on nonlinear optical effect and sub-nanosecond pulse laser

H. Minamide
Teraphotonics Lab., RIKEN Center for Advanced Photonics, RIKEN, Japan

Performance of SI and LI Spark Plugs and That of Spark Plugs Equipped With a Prechamber

S. Gupta[1], B. Bihari[1], M. Biruduganti[1], N. Polcyn[2], J. U. Hwang[2], and K. Kanehara[2]
[1]Argonne Nat. Lab., USA, [2]DENSO International

Designing the Flame Kernel Structure by the Laser Pulse Profile

S. Lorenz and D. Brüggemann
Univ. Bayreuth, Germany

Characteristics of microwave- enhanced laser ignition

J. Hayashi[1], C. Liu[1], F. Akamatsu[1], A. Nishiyama[2], A. Moon[2], and Y. Ikeda[2]
[1]Osaka Univ., Japan, [2]Imagineering, Japan

Magneto-optical Q-switching with magnetic garnet film

T. Goto[1,2], R. Morimoto[1], J. W. Pritchard[3], T. Yoshimoto[1], H. Takagi[1], Y. Nakamura[1], P. B. Lim[1], M. Mina[3], T. Taira[4], and M. Inoue[1]
[1]Toyohashi Univ. Tech., Japan., [2]JST, PRESTO, Japan., [3]Iowa State Univ., USA. [4]Inst. Mol. Sci., Japan.

Laser Ceramics

H.Yagi, K.Muramatsu, and T.Yanagitani
Konoshima Chemical Co., Ltd., Japan