

LIC2019 program

Thu. Apr 25, 2019

[LIC7] Social implements of compact power lasers

Thu. Apr 25, 2019 9:00 AM - 10:33 AM JST

Pacifico Yokohama Conference Center(302)

Session Chair: Takunori Taira (RIKEN)

9:00 AM - 9:30 AM JST

LIC7-1

Realization and social implementation of ubiquitous power lasers (Invited)

*Yuji Sano¹

1.ImPACT, Japan Science and Technology Agency

9:30 AM - 9:45 AM JST

LIC7-2

The "Golden" Laser Spark Plug Assembly Process

*Pol Ribes-Pleguezuelo¹, Erik Beckert¹, Christoph Damm¹, Axel Bodemann¹, Ramona Eberhardt¹, Andreas Tünnermann¹, Nicolae Pavel², Oana-Valeria Grigorez², Gabriela Croitoru², Catalina-Alice Brandus², Nicolae-Tiberius Vasilez²

1.Fraunhofer Institute for Applied Optics and Precision Engineering IOF, 2.National Institute for Laser, Plasma and Radiation Physics, Laboratory of Solid-State Quantum Electronics Romania

9:45 AM - 9:57 AM JST

LIC7-3

Sub-nanosecond microchip laser for ophthalmology

*Naoki Yoshida¹, Jun Suzuki¹, Shungo Araki¹, Muneyuki Adachi¹, Kazunobu Kojima¹, Masaaki Hanebuchi¹

1.NIDEK Co., Ltd.

9:57 AM - 10:09 AM JST

LIC7-4

Development of mJ-class compact microchip lasers for industrial and commercial applications

*Yuichi Takushima¹, Tadashi Hajikano¹, Hiroshi Tsuboya¹, Shota Sekiguchi¹, Masanori Tone¹

1.Optoquest Co., Ltd.

10:09 AM - 10:21 AM JST

LIC7-5

Microchip laser aiming at application to various processing applications

*Tsuyoshi Nagata¹, Taishi Ogata¹, Toshiyuki Okada¹

1.Panasonic Production Engineering

10:21 AM - 10:33 AM JST

LIC7-6

Laser surgery

*Kazunori Takahashi¹

1.UNITAC

<Break> 10:33 AM - 11:00 AM JST

[LICp] LIC Poster session

Thu. Apr 25, 2019 10:30 AM - 12:00 PM JST

Pacifico Yokohama Exhibition Hall(Hall A)

Posters with short presentations

LICp-1

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*Naoki Yoshida¹, Jun Suzuki¹, Shungo Araki¹, Muneyuki Adachi¹, Kazunobu Kojima¹, Masaaki Hanebuchi¹

1.NIDEK Co., Ltd.

LICp-2

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LICp-3

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LICp-4

Laser surgery

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1.UNITAC

LICp-5

Interferometric imaging of laser initiated spark kernel

*Sreenath B Gupta¹, Benjamin Akih-Kumgeh²

1.Argonne National Laboratory, 2.Syracuse University

LICp-6

Influence of fuel on laser breakdown-assisted long-distance discharge ignition (LBALDI)

*Hiroki Koide², Shun Sakamoto², Kazuya Iwata², Osamu Imamura², Yasunori Ohkuma², Hiroshi Yamasaki², Hirohide Furutani¹, Eiichi Takahashi¹, Kazuhiro Akihama²

1.National Institute of Advanced Industrial Science and Technology (AIST), 2.Nihon University

LICp-7	[Withdrawn]
LICp-8	QPM-structured quartz for intense-laser pumped 266 nm generation *Hideki Ishizuki ^{1,2} , Takunori Taira ^{1,2} 1.Institute for Molecular Science, 2.RIKEN SPring-8 Center
LICp-9	Saturable absorption in Cr⁴⁺ YAG ceramics *Yoichi Sato ^{1,2} , Takunori Taira ^{1,2} 1.Institute for Molecular Science, 2.RIKEN SPring-8 Center
<Lunch> 12:00 PM - 1:15 PM JST	
[LIC8] Laser ignition and accompanied processes Thu. Apr 25, 2019 1:30 PM - 3:00 PM JST Pacifico Yokohama Conference Center(302) Session Chair: Takuma Endo (Hiroshima Univ.)	
1:30 PM - 2:00 PM JST	
LIC8-1	Modeling of evolution from ignition kernel to planar flame with minimum energy transition in turbulent premixed flame (Invited) *Tsukasa Hori ¹ 1.Osaka University
2:00 PM - 2:15 PM JST	
LIC8-2	Laser-induced spark ignition of premixed lean CH₄/air and CH₄/H₂/air mixture Erjiang Hu ¹ , *Shihan Huang ¹ , Qunfei Gao ¹ , Xiaotian Li ¹ , Jinfeng Ku ¹ , Zuohua Huang ¹ 1.Xi'an Jiaotong University
2:15 PM - 2:45 PM JST	
LIC8-3	Limiting Inverse-Bremsstrahlung photon absorption for measurements in flammable mixtures without ignition (Invited) *Hyungrok Do ¹ , Sungkyun Oh ¹ , and Sangeun Bae ¹ 1.Seoul National University
2:45 PM - 3:00 PM JST	
LIC8-4	Measurements of temperature using acoustic waves from laser-induced breakdowns *Moon Soo Bak ¹ , Jungwon Lee ¹ , Cheolwoo Bong ¹ 1.Sungkyunkwan University
<Break> 3:15 PM - 3:30 PM JST	
[LIC9] Laser damage and ablation Thu. Apr 25, 2019 3:30 PM - 5:30 PM JST Pacifico Yokohama Conference Center(302) Session Chair: Yoichi Sato (RIKEN)	
3:30 PM - 4:00 PM JST	
LIC9-1	Laser-induced damage for optical devices (invited) *Shinji Motokoshi ¹ , Kana Fujioka ² , Masashi Yoshimura ² , Takahisa Jitsuno ² 1.Institute for Laser Technology, 2.ILE, Osaka University
4:00 PM - 4:15 PM JST	
LIC9-2	Laser ablation in liquid on pyrite for the generation of iron complexes *Yuka Motohashi ¹ , Yumi Yakiyama ¹ , Hidehiro Sakurai ¹ 1.Osaka University
4:15 PM - 4:30 PM JST	
LIC9-3	Double pulse laser driven flyer *Deshen Geng ¹ , Lang Chen ¹ , Jianying Lu ¹ , Junying Wu ¹ 1.Beijing Institute of Technology
4:30 PM - 5:00 PM JST	
LIC9-4	Cleaning of liquid droplet on metal by explosive vaporization at solid-liquid interface induced by pulsed laser (Invited) *Naotada Okada ¹ , Tetsuo Sakai ¹ , Shinji Okuma ¹ 1.Corporate Manufacturing Engineering Center, Toshiba Corp.
5:00 PM - 5:30 PM JST	
Closing Remarks	