

16:30-17:00, April 25th, 2013

1st Laser Ignition Conference 2013 (LIC'13)

Closing Remarks

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1st Laser Ignition Conference 2013 (LIC'13)

Co-located with Optics & Photonics International Congress 2013 <<http://opicon.jp>>

April 23 (Tue.) – 26 (Fri.), 2013, Pacifico Yokohama, Yokohama, Japan

Paper Deadline: Dec. 20 (Tue.) 2012

A. High brightness lasers for ignition and diagnostics

- Micro solid-state photonics: advanced laser crystals, ceramics, and micro-domain controlled materials
- Giant micro-photonics: mega-watt class giant pulse generation from micro photonics
- High power and reliable diode lasers: high power VCSELs, DFB and VBG based diodes, etc.
- High power and reliable fiber or fiber lasers, including pump delivery and giant pulse generation

B. Laser ignited engines for power generator and vehicle

- Laser induced breakdown plasma and combustion process analysis
- Laser ignition for electrical power generator and gas engine
- Laser ignition for automobile engine, using gasoline, gas, or any other fuels.
- Future combustion systems: combination with plasma assisted combustion

C. Applications of high brightness laser (Should be Joint Symposium)

- Nonlinear optics: harmonic wave generations (SHG, THG, FHG, SFG, OPO/OPG, DFG, etc.
- Diagnostics: LIBS, mass spectroscopy, gas sensing, etc.
- Materials processing: laser drilling, laser peening, etc.
- Bio-medical applications: multi-photon microscopy, laser surgery, laser therapy, etc.

LIC'13 Program

Date	Time	Sessions	Number of presentations
Tue.	9:30-10:00	Opening Remarks	-
	10:30-11:55	Keynote Lecture of OPIC'13	[1]
	13:20-15:20	Joint Plenary Session of OPIC'13	1
	15:45-18:00	LIC1 : LDC-LIC Joint Session	4
Wed.	9:00-10:15	LIC2 : High Brightness Lasers for Ignition -1	4
	10:30-12:00	LIC3 : High Brightness Lasers for Ignition -2	5
	13:00-14:15	LIC4 : High Brightness Lasers for Ignition -3	4
	14:30-16:15	LIC5 : High Brightness Lasers for Ignition -4	5
	16:15-17:00	Panel Discussion	[3]
Th.	9:00-10:30	LIC6 : Application of high brightness laser	4 (5*)
	10:45-12:00	LIC7 : Laser Ignited Engines for Power -1 (Plasma Assisted Combustion)	4
	13:00-15:00	LIC8 : Laser Ignited Engines for Power -2	7
	15:15-16:30	LIC9 : Laser Ignited Engines for Power -3	4

* LIC6-3 canceled

Total 42 (43*) + [1 + 3]

LIC'13

Registration Number

Country and Region	Number
Japan	61
Germany	4
USA	4
Austria	2
France	1
China	1
Romania	1
Russia	1
Switzerland	1
South Korea	1
Taiwan, Province of China	1
UK	1

Category	Number
Academic side	44
Industrial side	34
Press	1

Total: 12 Countries, 79 Persons

Award Winner of LIC'13

- **Best Paper Award**

L. Zimmer and T. Agarwal, *Laboratoire d'Energétique Moléculaire et Macroscopique, Combustion (EM2C), France Ecole Centrale Paris, France*, “**Laser-induced Ignition and Plasma Spectroscopy in a Turbulent Liquid Fueled Combustor**”

- **Young Scientist Award**

H. Kojima, E. Takahashi and H. Furutani, *AIST, Japan*, “**Laser Ignition Controlled by the Combination of Nano- and Femto-second Lasers**”

Thank you for your contribution



2nd Laser Ignition Conference 2014 (LIC'14)

April 22 (Tue.) – 25 (Fri.), 2014, Pacifico Yokohama, Yokohama, Japan
Paper Deadline: end of Dec., 2013

LIC URL <<http://lic.opicon.jp>>