

# The 5th Laser Ignition Conference (LIC '17)

June 20-23, 2017, Novotel Bucharest City Centre Hotel, Bucharest, Romania



**WELCOME to Bucharest,  
ROMANIA**



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## Wednesday, 21 June

**8:30 - 9:30**

**W-S1: OPENING REMARKS and INTRODUCTORY SESSION**

- Welcome Address LIC'17, BECKERT Erik; Fraunhofer IOF, Jena, Germany

- Messages for LIC'17:



**DASCALU Traian**

**General Director of INFLPR, Magurele, Romania**



**TAIRA Takunori**

**Institute for Molecular Science, Okazaki, Japan**



**LUPEI Voicu**

**The Romanian Academy, Bucharest, Romania**



**TELEAGA Ioan**

**Renault Technologie Roumanie, Romania**

- Welcome Address LIC'17, PAVEL Nicolaie INFLPR, Magurele, Romania

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## PLENARY SPEAKERS



### Wednesday, 21 June

**LWA1: PLENARY SESSION I**

**LWA1.1. Pollutant Emissions Reduction of Internal Combustion Engines by using Alternative Fuels and Enhanced Ignition Systems**, CHIRIAC Radu; *Univ. Politehnica of Bucharest, Bucharest, Romania*

### Thursday, 22 June

**LThA1: PLENARY SESSION II**

**LThA1.1. The Evolution of Laser Ignition over Four Decades**

*WINTNER Ernst, Vienna Univ. of Technology, Vienna, Austria*



### Friday, 23 June

**LFA1: PLENARY SESSION III**

**LFA1.1. Nonequilibrium Plasma-Assisted Combustion: Advanced Spectroscopic Methods for Fundamental Studies**, Gabi Daniel STANCU, S. Stepanyan, C. O. Laux; *CentraleSupélec, Paris, France*

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## SESSIONS

- DEVELOPMENTS IN LASER & LASER TECHNOLOGIES - APPLICATIONS IN LASER IGNITION

3 sessions.

- ADVANCED IGNITION SYSTEMS FOR TRANSPORTATION APPLICATIONS

1 session (+ 1)

- LASER IGNITION SYSTEMS FOR STATIONARY NATURAL GAS ENGINE

1 session (+ 1)

- LASER IGNITION IN AEROSPACE APPLICATIONS

- MEASUREMENTS TECHNIQUES FOR INDUCED PLASMAS, IGNITION AND COMBUSTION PROCESSES

1 session (+ 1)

- POSTER SESSION

### Some aspects:

- 3 Plenary Lessons
- 14 Invited Papers
- 17 (18-1) Oral Contributions
- 7 (8-1) Poster Presentations

Did not shown:  
LWA5.8. Acoustic Emission ....; P. Onanko

Did not shown:  
LThA2.3. Laser Ignition of Atomized ....; A. P. Singh

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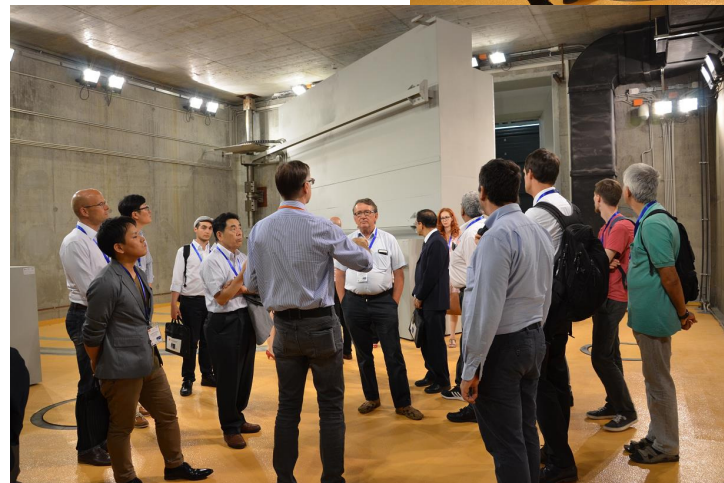
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## Thursday, 22 June

14:30 - 15:00 LThA5.1: New Research Perspectives at Extreme Light Infrastructure - Nuclear Physics; Ur Calin

15:30 - 18:00 VISIT OF EXTREME LIGHT INFRASTRUCTURE - NUCLEAR PHYSICS (ELI - NP), Magurele, Romania



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Friday, 23 June



16:00 - 17:00

**F-S7: CLOSING SESSION**

- **SUMMARY OF LIC'17.** PAVEL Nicolaie
- **AWARDS PRESENTATION**
  - **The Best Paper Award**
  - **Young Scientist Award**
  - **The Best Poster Presentation**
- **ANNOUNCEMENT OF LASER IGNITION CONFERENCE 2018 (LIC '18).** TAIRA Takunori

- |                 |                                       |                  |
|-----------------|---------------------------------------|------------------|
| • <b>AWARDS</b> | • <b>The Best Paper Award</b>         | <b>17 papers</b> |
|                 | • <b>Young Scientist Award</b>        | <b>8 papers</b>  |
|                 | • <b>The Best Poster Presentation</b> | <b>7 posters</b> |

- **Seven evaluators (no right to evaluate a co-authored paper);**
- **Each paper was evaluated by at least five persons;**
- **A score /mark between 3 (average), 4 (good) and 5 (very good) was given to each paper.**

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## • THE AWARDS



### • Certificate of Recognition for

#### **The Best Poster Presentation**

**Ryohei MORIMOTO**

**Paper: LWA5.6, Epitaxially Grown Magnetic Garnet Film on Nd:YAG Substrate for Microchip Laser**

### • Diploma

#### **Young Scientist Award**

##### **1. Michael BÖRNER**

**LThA4.2: Determination of Minimum Laser Pulse Energies for Ignition in a Subscale Rocket Combustion Chamber**

##### **2. Gabriela Croitoru**

**LWA4.3: Laser Ignition of a Gasoline Engine Automobile**



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- Certificate of Excellence for  
**The Best Paper Award**  
Eiichi Takahashi  
Paper: LFA2.2, Laser Ignition in Flowing Air-Fuel Mixture





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- Registered participants: 70
  - Regular participants: 65
  - Exhibitors: 5
  - Industry: 17



## • Countries

- AUSTRIA: 2
- CHINA: 1
- FINLAND: 1
- FRANCE: 5
- GERMANY: 9
- INDIA: 1
- JAPAN: 15
- ROMANIA: 22
- SAUDI ARABIA: 1
- SWITZERLAND: 1
- THE NETHERLANDS: 1
- UK: 3
- UKRAINE: 1
- USA: 2



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## THANKS TO OUR SPONSORS

### SPONSORS:

- **European Union's Horizon 2020 Research and Innovation Programme**  
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The Laser Society of Japan <http://www.konpon.com/>

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- ANNOUNCEMENT OF LASER IGNITION CONFERENCE 2018 (LIC '18)



**23 - 27 April 2018,  
Pacifico Yokohama, Japan**

**Deadline: 14 December 2017**



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**WE wish You all the Best.  
23 June 2017  
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